Steffie – Thursday, 11 August 2022 – 19:51:44

Subject	Stop Origin's reckless fracking plans.
From	Steffie ...
Sent	8/11/2022 7:51:44 PM

Hello

I am currently a domestic gas consumer [heating, hot water & cooking], & a reluctant customer of Origin Energy. I hate it that i am personally a contributor to the extant global heating emergency, & distraught that i'm compounding that problem by having no realistic alternative to Origin as my vendor. I wish that i had a pragmatic path available to me to stop using gas domestically, & hence also stop financially supporting Origin.

Until that day when i can be gas-free, i at least wish to apply my small voice against Origin, against all new fossil fuel projects, against fracking, for water security, & for First Nations cultural respect.

I oppose Origin's plans to open twelve new fracking drills in the Northern Territory. These wells would threaten water, cultural heritage, & of course our climate. Approval of this plan would create a truly preposterous precedent that would be used by subsequent companies & governments.

It is utterly ludicrous for any government to entertain any more projects of this kind, given our Paris obligations, given local cultural, environmental & ecological obligations, & given the palpable evidence via lived experience of so many Australians & other countries of the dire effects already caused by only one degree of heating.

Fracking itself is an environmental crime. Companies & governments never mention the unsolved problem of the highly saline "produced water" effluent. On this basis alone no such project should ever be approved. Then massively amplifying that "dirty little secret" is the grotesque climate-crime of all the global heating caused by the fugitive gas emissions from each well [before, during & after their commercial life], plus of course the unavoidable additional carbon loading into the atmosphere from the gas combustion. All proponents of so-called natural gas, ie, methane, as being either "clean", or "cleaner than coal", are simply lying through their teeth.

The outrage does not end there, however. All fracking projects require vast volumes of water, which loss then endangers dependent flora, fauna, livelihoods, & cultural traditions. Why are these dependents always minimised or dismissed by proponents? Furthermore, i am aware that Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage. Why should Origin be allowed to prevail over our First Nations?

So, as i opened, i am a very reluctant gas consumer looking to end that status, on environmental, economic, cultural & ethical grounds. I am appalled at this proposal, & hope it fails.

Summary: I want the Department to reject Origin's EMP.

Steffie ...
****
NSW 2575

Aaltonen, Marie – Friday, 12 August 2022 – 14:20:11

Subject	Fracking
From	Marie Aaltonen
Sent	8/12/2022 2:20:11 PM

Please stop Origins fracking plans. Not good for the environment. Thank you.

Marie Aaltonen
****
VIC 3135

Abell, Patricia – Saturday, 13 August 2022 – 16:52:48

Subject	No Fracking in the NT
From	Patricia Abell
Sent	8/13/2022 4:52:48 PM

Northern Territory Department of Environment Parks and Water Security
In the mid 80's my family and I lived in Darwin and travelled throughout the NT, getting a feel for its people, culture and its extraordinary vulnerable environment.
The environment is vulnerable to attacks such as Origin's plans to open 12 new fracking drills. These wells would threaten the water supply for the people, animals, fish and birds which share the cultural heritage of this area.
This would be an attack on the oldest continuing living culture on this earth, something Australia needs to come to terms with.
I am a retired pharmacist, and hope and pray that the short term greed of this venture will be seen for what it is, and sanity and peace in the region can prevail
Patricia Abell

Patricia Abell
****
NSW 2454

Abercrombie, Jane – Friday, 12 August 2022 – 07:22:09

Subject	Stop Origins fracking plans. Fueled by greed and complete disregard for environmental and social consequences. Please!!! Jane Abercrombie
From	Jane Abercrombie
Sent	8/12/2022 7:22:09 AM

Stop Origins fracking plans. Fueled by greed and complete disregard for environmental and social consequences. Please!!! Jane Abercrombie

Jane Abercrombie
****
NSW 2482

Abrahams, Anthony – Saturday, 13 August 2022 – 17:11:36

Subject	a.abrahams@ozemail.com.au
From	Anthony Abrahams
Sent	8/13/2022 5:11:36 PM

Northern Territory Department of The Environment Parks and Water Security

Sirs I write to express my alarm at your clear strategy to give Origin the inside running with regard to the creation of numerus fracking sites within the Territory when the weight of the evidence supports the claim that fracking is unsafe in resect of the water table, unsafe in respect of cracks and leaks re creek beds and devastating in respect of leaking CO2 into the atmosphere. Whichever public servant is reading and processing this message you should ask yourselves - particularly if you have children - just what sort of environment do you which to bequeath to the next generation? regards Anthony Abrahams AM

Anthony Abrahams
****
NSW 2023

Adair, Allan – Friday, 12 August 2022 – 16:03:58

Subject	Origin Energy and Fracking
From	Allan Adair
Sent	8/12/2022 4:03:58 PM

To:
The Northern Territory Department of of Environment, Parks and Water Security
Dear Sir/Madam,
I am a retired teacher, and an Origin Energy Customer. I read with deep concern of the plans by Origin Energy to begin fracking in the NT. I wish to express my utter opposition to these plans.
I object on two grounds:
1. Fracking is a relatively new technology whose short-term damage to the environment has been demonstrated by numerous scientific studies, and by many publicly-available stories from affected people based on their personal experience. Its damage to aquifers is particularly worrying.
2. The opening of new wells for gas extraction (by any means) directly contradicts the Federal Government's aim to reduce carbon emissions. This vital target cannot be achieved if more gas extraction and burning is permitted.
Please put the health of our Australian land and its people above Origin Energy's desire for profit. Please stop its activities re fracking.
Yours faithfully,
Allan Adair

Allan Adair
****
VIC 3350

Adams, Isabel – Sunday, 14 August 2022 – 18:40:12

Subject	Protect country, culture and community
From	Isabel Adams
Sent	8/14/2022 6:40:12 PM

To the Northern Territory Department of Environment, Parks and Water Security,

My name is Isabel, and I am a passionate young Australia. I care about having my voice heard so that I can improve the world that I live in now, and protect the future that I will inherit.

We are lucky to love in Australia, a country that is fair and free. But our livelihoods are being threatened. Gas fracking destroys the land and water on which it occurs. It has adverse effects on our climate. It impacts upon the culture of the Indigenous people who have cared for the land and its resources for thousands of years.

The energy company Origin is trying to frack for gas on the Amungee Mungee pastoral station. They have not received the proper permissions and licences and have not adequately considered the impact of this proposal on the climate, land, waters and Indigenous population. The Traditional Owners of this land do not want these new fracking wells.

Approving these wells would threaten the land, the water, our cultural heritage and our climate. But it would also set a dangerous precedent. Australia is supposed to be a fair and just country. But if we allow those without proper licences or who don't go through the proper processes, to do what they like with our country, what message are we sending? We must protect justice by ensuring that everyone is treated fairly. Origin should not get special privileges.

For these reasons and so many more, I am asking you to reject Origin's plans to frack in the Northern Territory.

Please protect our country.

Yours with hope,
Isabel

Isabel Adams
****
TAS 7007

Adamson, Hugh – Saturday, 13 August 2022 – 15:55:04

Subject	Stop all fracking
From	Hugh Adamson
Sent	8/13/2022 3:55:04 PM

The best way to be reponsible adults facing and shaping uncertainty occasioned by global climate change is to keep all fossil fuels where they currently reside - in the gound unburned.

Origin and other opportunist operators do not need more gas but State authorities need more royalties from those who extract and sell irreplaceable national asset for windfall profit.

(signed)
Hugh Adamson

Hugh Adamson
****
VIC 3146

Adamson, Jann – Sunday, 14 August 2022 – 15:08:25

Subject	Stop Origin Fracking the Beetaloo Basin NT
From	Jann Adamson
Sent	8/14/2022 3:08:25 PM

To Northern territory Department of Environment, Parks and Water Security,

I am appalled at the indifference the NT government has shown towards the people of the NT , not to mention the rest of Australia's people.
This is a submission against any fracking in the NT and the opening of the Beetaloo Basin for shale gas production.

The Pepper enquiry in 2018 recommended and accepted by the Govt, that emissions from shale gas development had to be fully offset, so there is no increase in greenhouse gas emissions in Australia from any onshore shale gas produced in NT.

Sixty top Climate Scientists sent a signed letter ,advising that the NT government would not be able to meet the promise to fully offset emissions. There is no plan from the Govt showing how they will.
It has been documented that the Beetaloo Basin fracking would need between 39million tonnes to 117 million tonnes in carbon offset and a strong warning that by developing the Beetaloo Basin it will threaten Australia's ability to meet the Paris target of reduced emissions that Australia has signed .

In addition we know there will be an enormous impact on the physical landscape and severe water contamination. The lives of indigenous communities and farmers who live there will be changed irrevocably . This will kill a magnificent area .
Kakadu already has no proper drinking water which is criminal for any state govt.

Full details of the chemicals involved have been hidden as had Origin's lobbying to have CSIRO keep them hidden.
On top of that , notification that a sanctioned Russian oligarch has an investment in this project with Origin.
The list goes on and on
I trust you will take my objections into consideration.
I am a white, 82 year old woman and thoroughly disappointed with Australia's governments who only seem to service the rich and powerful.

Please don't make this NTs second largest mistake after NTs sale to China.

Sincerely Jann Adamson

Jann Adamson
****
NSW 2536

Adcock, Lara – Sunday, 14 August 2022 – 14:35:30

Subject	No Means No - Reject Origin's Application
From	Lara Adcock
Sent	8/14/2022 2:35:30 PM

Hello,
I am deeply concerned about the plans for these fracking wells. The federal government has made it clear they are trying to 'End the Climate Wars' but how can that really be the case when companies are still on the attack. There cannot be a net zero and a coal and gas future, and for all our safeties, we have to select the former. Also, traditional owners have made it very clear that they do not want fracking on their land. If we ignore that, then we only allow the colonial project to continue. No means no. You cannot in good conscious permit Origin to open these wells.

Lara Adcock
****
NSW 2204

Adler, Michele – Saturday, 13 August 2022 – 14:38:26

Subject	Stop Origin's Fracking plans
From	Michele Adler
Sent	8/13/2022 2:38:26 PM

My name is Michele Adler. My address is 647 Marathon Road, Briagolong Vic 3860. I am an environmentalist and former Lecturer at the University of Melbourne.
Fracking was stopped in the UK in 2019 due to concerns about earth tremors. It also uses a huge amount of water in the process.
Haven't we exploited our earth home enough?
Why do we need to destroy country, use a precious resource, water, to do so and exacerbate climate emissions It's unfathomable, except to say, it's greed and exploitation of the earth.
Fracking remains banned in numerous EU countries, including Germany, France and Spain. There has to be a reason why these advanced and civilised societies are opposed to it.

Doctors for the Environment Australia believe that the gas industry has impacts for climate and health. It is also a threat to food and water security. The Permanent People's Tribunal has said that fracking is against human rights and should be banned worldwide.
The Australian gas industry is an increasingly large contributor to global greenhouse emissions with the accompanying climate reality. We are on track to become one of the top contributors to global warming by 2030.
Australians everywhere are crying out for climate sensibility. Also respect for Indigenous people's land that land is being raped and plundered.
Could money be better spent on making green energy (wind, water, hydrogen, solar) more reliable? And creating worthwhile jobs to save our planet?
As far as I'm aware, Origin Energy have not implemented all the recommendations from the crucial Pepper Inquiry, 2018 and have not fully addressed the climate impacts.

I respectfully ask the Department to reject Origin's EMP.
Faithfully,
Michele Adler

Michele Adler
****
VIC 3860

Ady, Eva – Thursday, 11 August 2022 – 17:57:18

Subject	Stop the fracking.
From	Eva Ady
Sent	8/11/2022 5:57:18 PM

I ask that you cease fracking drills, it is unnecessary,destroying country side, water, ans climate, not to mention cultural heritage. I will remove my Gas account from Origin and seek some other company who is serious about caring for our land.. They are greedy and do not care.

Eva Ady
****
VIC 3931

Agosti, Fran – Sunday, 14 August 2022 – 15:41:19

Subject	Stop Origin's Fracking Plans
From	Fran Agosti
Sent	8/14/2022 3:41:19 PM

I am a concerned, aware Australian. I live in the beautiful Blue Mountains of NSW.

I am deeply concerned about Origin's plans to open twelve new fracking drills in the Northern Territory. This is unacceptable.

I am writing to the NT Government today as a result of my concerns about this destructive plan that is directly contra to what our governments at both State and Federal level should be doing in a world where climate change threatens not only human existence but all existence. We must protect the future of our children and their children by rejecting new gas and coal proposals.

This move by Origin will be a disaster for this region. Twelve new fracking wells will threaten water security in this region. Origin will require 430 million litres of water to drill and frack the twelve wells in their proposal. This is an enormous amount of precious water in a dry, arid state that should be conserved for other important purposes.

Origin's proposal will interfere with the cultural heritage of this region. Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage. The wishes of traditional owners must be respected. Many white Australians support the view that land of significant cultural heritage must be preserved and protected rather than exploited and destroyed by large corporations like Origin, who have no regard or respect for our precious environments putting profit above all else, even at the cost of our children's futures.

Alarmingly, Origin are seeking an exploratory licence that will enable them to later frack and sell gas even though they do not have a production licence to do so. Once Origin moves from the exploration phase to production phase the scale of the damage is exponential.

This is concerning for the millions of Australians who at this year's Federal election voted for decisive and urgent action on climate change that does not and should not include new gas fracking projects.

I strongly urge the NT Government to reject Origin's destructive proposals to expand fracking in the Northern Territory. The eyes of all Australians will be on the Northern Territory to see how your government decides on this very important issue. Australians are now at a point where we will only support governments to act decisively to protect our precious environment and are accountable and ready to act on addressing climate change and the threat the current crisis presents to the existence of us all.

Thank you for considering my submission.

Fran Agosti
****
NSW 2783

Aine, Aine – Saturday, 13 August 2022 – 06:48:04

Subject	Stop Origin's fracking plans
From	Aine Aine
Sent	8/13/2022 6:48:04 AM

To the Northern Territory Dept of Environment /Parks

I write to express my opposition to business entity Origin fracking around the NT coastline and on First Nations land. In my view Origin's plans are set to pollute essential water, soil, air and it would be sensible of any Government to veto the rights of companies to profit from such destructive practises whilst the population suffers the polluting consequences. Surely this is not what the NT Government would deem rightful when it was elected by the people to act in the best interests of the people.
Yours sincerely
Áine (full name)

Aine Aine
****
NSW 2480

Alagich, Miranda – Monday, 15 August 2022 – 11:46:09

Subject	Stop Origin's Fracking Plan.
From	Miranda Alagich
Sent	8/15/2022 11:46:09 AM

Hello,

My name is Miranda and I am writing to ask the Department to reject Origin's EMP.

Origin wants to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

Origin haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

Origin want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

I am asking the Department to reject Origin's EMP.

Yours sincerely,

Miranda Alagich
****
NSW 2089

Alderson, Ron – Saturday, 13 August 2022 – 14:17:19

Subject	Stop Origin's Fracking Plans
From	Ron Alderson
Sent	8/13/2022 2:17:19 PM

I am a semi-retired scientist and wish to voice my concerns about the proposed fracking in the NT. The fracking wells proposed threaten the water table as well as the rich cultural heritage of the region.
If these wells go ahead it is likely that the negative impacts will not be felt for some time and I implore you to re-consider. there is far too much to lose.

Ron Alderson
****
VIC 3088

Alexeyeff, Luke – Friday, 12 August 2022 – 20:45:44

Subject	Stop Origin's fracking plans
From	Luke Alexeyeff
Sent	8/12/2022 8:45:44 PM

The Northern Territory Department of Environment, Parks and Water Security.

It is in our best interests to look after our environment and our remote communities throughout the Northern Territory. The pristine landscape is the NT's greatest asset.
Origin's plans for fracking put this in jeopardy.

The choice is a simple one: Do we look after the company's shareholders, or do we respect our precious environment?

I would like to think that our future governments can make decisions that honour the land we belong to. Very little of this country's land could be called pristine anymore. Let not the NT spoil what it has remaining.

Yours sincerely,

Luke Alexeyeff

Luke Alexeyeff
****
VIC 3237

Ali, Tracey – Sunday, 14 August 2022 – 14:25:18

Subject	NT Government PLEASE STOP Origins fracking plans
From	Tracey Ali
Sent	8/14/2022 2:25:18 PM

My name is Tracey and I live in SA, please stop Origins fracking plans as they are detrimental to all Australians and the future of our children.

Traditional Owners have been staunchly defending their country against Origin for years.

If you approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Kind regards
Tracey Ali

Tracey Ali
****
SA 5070

Alick, Pamela – Sunday, 14 August 2022 – 17:47:21

Subject	Stop Origin's plans for fracking in Northern territory
From	Pamela Alick
Sent	8/14/2022 5:47:21 PM

NT Department
Please support the Traditional Owners as they strongly oppose the destruction of their land . What damage will be done to the water in particular. Surely it's time that One Nation peoples should be listened to. We are supposed to be moving away from fossile fuels.
Sincerely Pamela Alick

pamela alick
****
QLD 4059

Allan, Raymond – Sunday, 14 August 2022 – 18:19:08

Subject	Please respect culture
From	Raymond Allan
Sent	8/14/2022 6:19:08 PM

This expansion of gas fracking is a great risk to our water and to the culture of the local people. Please reject origin 's plan and protect our aquifers for future generations to use.

Raymond Allan
****
VIC 3551

Allan, Ross – Sunday, 14 August 2022 – 07:03:35

Subject	Stop Origins fracking plans
From	Ross Allan
Sent	8/14/2022 7:03:35 AM

The evidence is clear of the destruction to areas where fracking is/has been conducted.

I certainly do not support fracking.

Regards

Ros Allan

Ross Allan
****
QLD 4714

Allen, Brian – Saturday, 13 August 2022 – 17:24:02

Subject	Origin must draw the line on fracking, and now's the time to do it!
From	Brian Allen
Sent	8/13/2022 5:24:02 PM

I'm Brian Allen, Paddo, Qld, and I'm disgusted to learn that Origin is out to destroy as much of the NT as it can lay it's hands on! For what, GREED, EXPAND THEIR FOSSIL FUEL EMPIRE, TO LOOK BIG WHEN IT COME TO SHARE PRICES - THAT'S JUST ABOUT IT - ABSOLUTE GREED!

Brian Allen
****
QLD 4064

Allen, Dianne – Saturday, 13 August 2022 – 14:41:12

Subject	Stop Origin's fracking Plans
From	Dianne Allen
Sent	8/13/2022 2:41:12 PM

I write to support Traditional Owners' defence of their land against unacceptable and damaging fracking for gas.

Fracking not only destroys country, water and our climate, but by proceeding with the current applications against Traditional owners wishes, continues to disrespect a people who have used this country and its resources with stewardship for the ongoing generations.

Dianne Allen
****
NSW 2533

Allen, Janette – Saturday, 13 August 2022 – 10:33:36

Subject	Please do not allow Origin to frack in the NT
From	Janette Allen
Sent	8/13/2022 10:33:36 AM

To the Northern Territory Department of Environment, Parks and Water Security,

With respect to your consideration of Origin's Environment Management Plan to open 12 new exploratory fracking wells in the Amungee Mungee pastoral station:

My name is Janette Allen, and I live far from the proposed sites of the fracking wells, in a rural farming community in Gippsland, Victoria. I am a farmer, and work the family farm with my husband Andrew. I am also a primary school teacher. In both these professions I have witnessed the effects of a changing climate. I have seen what it does to the land. I have seen what fear and powerlessness can do to people, young and old. I also believe in the worth of democracy, and value the fact that in Australia the democratic process exists that enables people everywhere to voice their concerns and tussle together to find a way through competing and diametrically opposed desires. Therefore, I think my voice should not be disregarded even though it is raised from a place remote from the Northern Territory and your concerns.

I am writing from two simple viewpoints. First, the land on which we live and breathe, work and play, does not belong to white people. Our farm does not belong to us. Every time we want to do anything such as build a dam, we must and should pay attention to the cultural and social relationships of Indigenous people, and we must submit plans to a process that determines whether we will harm the land in ways we may not predict. The Indigenous communities of the Northern Territory are deeply embedded in the country of the Northern Territory. They are protesting that the plans Origin have are completely ruinous to the land, its health and theirs. I ask you to attend to their calls and examine whether Origin have fully complied with legislated processes that require them to consult and submit to Indigenous communities.

The nature of fracking itself, its damage to the environment through the use of clean reserves of water in an extremely dry environment, the waste water it produces which Origin proposes to truck into other areas of Australia to dispose of, and the production of greenhouse gases is my other concern. The Pepper Inquiry of 2018 listed 135 recommendations suggested as necessary to govern any future fracking operations. I ask you to consider whether this EMP takes into account and meets those recommendations. I also ask you to consider the wider question of how it can be logical to permit a company to pursue the business of gas production, in an environment where everyone in Australia is being asked to cut greenhouse gases by investing in renewable energy and adopting sustainable business practices. It will make little difference to our national efforts on greenhouse gas reduction if Origin is allowed to continue and expand its gas business.

It will take courage on the part of regulatory bodies such as your government to refuse this EMP and deny the executive of Origin the opportunity to continue down the fracking path. However, I believe it is only through constantly meeting a negative response that the leaders and investors in Origin will begin to see a future in renewable and sustainable energy production.

Please look very carefully at the proposal and beyond it. What will it mean to Indigenous people, not just locally but across Australia? What will it mean to the health and wealth of all of us if fracking goes ahead? Please form a view as to whether you believe fracking is a sustainable and useful way to impact the planet. Please look at the plans submitted by the executive officeholders of Origin and see if they are interested in upholding the health of people and country, both in the NT and beyond. Please consider what the wider community of citizens and experts tell you is important. You are the representatives of all of us, including the executive and shareholders of Origin. You have a difficult job to negotiate these competing voices. However you also have the opportunity to take a long view and then decide.

I believe you should find in the negative.

Yours sincerely,

Janette Allen

615 Grantville-Glen Alvie Road,
Kernot, VIC, 3979

Janette Allen
****
VIC 3056

Allen, Pallen – Friday, 12 August 2022 – 16:42:41

Subject	stop origins' fracking plans
From	Pallen Allen
Sent	8/12/2022 4:42:41 PM

The NT Government MUST stop Origin's reckless fracking plans
!

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

DON'T EVER - EVER LET THIS RABID, MORALLY VACUOUS AND UTTERLY DESTRUCTIVE PRACTICE BE STARTED.

FRACKING CAN FRUCK OFF.

Pallen Allen
****
TAS 7004

Allerton, Jan – Friday, 12 August 2022 – 16:02:35

Subject	Surely, no more fracking!
From	Jan Allerton
Sent	8/12/2022 4:02:35 PM

Northern Territory Government,
Dear representative,
I am an 81-yr-old woman with children and grandchildren. I want them to reach some level of peaceful existence. If we do not address the issue of protecting our water and environment, Australia and the world will be consumed in food and resources wars like we have never seen.
We have read about the damage of fracking in the US.
Enabling Origin's plans to start fracking in the Northern Territory may seem of some valuable, but it will set off a trail of destruction and encourage others to do the same.
The mood of Australia has turned. Climate Change is understood and feared.
Don't let yourselves be remembered as climate criminals by those suffering after you.
Thank you, and best wishes.

Jan Allerton
****
NSW 2111

Allison, Marina – Thursday, 11 August 2022 – 20:03:29

Subject	The NT Government stop Origin's reckless fracking plans
From	Marina Allison
Sent	8/11/2022 8:03:29 PM

The NT Government have to STOP Origin's reckless plans in their tracks! As long as fracking impacts our climate, water, and communities, it cannot be allowed.

Marina Allison
****
VIC 3150

Allnutt, Bill – Friday, 12 August 2022 – 22:03:02

Subject	Stop Origin Fracking
From	Bill Allnutt
Sent	8/12/2022 10:03:02 PM

Northern Territory Department of Parks and wildlife.

I am writing to implore you not to give Origin a license to frack in the Northern Territory.
This company pays no tax, destroys the ground water table and more carbon is not needed in our atmosphere.
All they give the country is short term employment and they make massive profits at the expense of the environment.
The effects of climate change are being seen all over the world, they spread misinformation about there activities at the expense of our children .
So I urge you not to grant them a licence.
Regards Bill Allnutt

Bill Allnutt
****
WA 6111

Almond, Annette – Sunday, 14 August 2022 – 22:14:10

Subject	Stop Origin fracking the N.T.
From	Annette Almond
Sent	8/14/2022 10:14:10 PM

Hello,
My name is Annette Almond and I am writing this submission in support of the Traditional Owners position regarding Origin plans to fracking in the Northern Territory.
I lived in the Northern Territory for two years and was taken by the unique and amazing landscape and wildlife. There is no other place on the planet quite like it.
To allow Origin, or any other company to commence fracking would destroy and permanently damage the country, water and our climate.
The science backs up the Traditional Owners position. And the State of the Environment Report reinforces our need to act now. The only good news in the report was where the Traditional Owners where responsible for maintaining the Ares of country.
Please listen to the experts and our future and say no to Origin and fracking in the N.T.
Thank you for your time.
Regards
Annette Almond

Annette Almond
****
WA 6025

Alsford, Jillian – Sunday, 14 August 2022 – 18:27:43

Subject	Fracking the Northern Territory will destroy the acquifers
From	Jillian Alsford
Sent	8/14/2022 6:27:43 PM

Department for Mining - Norhern Territory
I'd like to pose a question to you!
Why do you keep persisting on trying to ruin our planet by fracking in your own back yard?
I'm so fed-up writing to you to complain over and over again about Mining companies such as Origin.
Instead of listening to their requests I want you to tell them "NO" to fracking or any other kind of damage simply to put money in their pockets to appease their shareholders.
It has to stop - it is plain stupid to kill off your own species and that is what you are trying to do.
Listen to me and the Traditional Owners who obviously are trying to educate you in the care of our beautiful country.
Jillian Alsford

jillian alsford
****
NSW 2070

Altmann, Keith – Thursday, 11 August 2022 – 18:57:11

Subject	Origin Energy NT fracking plans - to NT Dept of Environment, parks & Water Security.
From	Keith Altmann
Sent	8/11/2022 6:57:11 PM

To: Northern Territory Department of Environment, Parks & Water Security.
I object to the above proposal by Origin Energy on the following grounds:

The proposal to which could lead, if approved, to open up additional gas additional fields at a time when the threats from climate change are becoming more dire. Recent calls from the UN and IEA amnesty others, have stressed the need to avoid new coal and gas development.

Emissions from gas production are in the short term much more damaging than CO2 emissions, and in terms of the impact on climate, whether used in Australia or overseas the climate consequences are still dire in view of the emerging increase in climate risks. (Global Warming potential of methane is up to 87 times greater than CO2 in the first 20 years after emission - Nature Energy 7, ********* (2022))

The increased climate risks emerging include two recent research findings about the accelerating risk of loss of Antarctic and Arctic ice - especially the "Doomsday Glacier" (Thwaites). Thwaites glacier alone could result in a sea level added rise of about 0.6m as early as the 2030's.

The argument that if we don't export gas. others will and therefore we should be able to proceed defies basic economics of supply and demand.The studies on economic elasticities show that for a fossil fuel such as oil, each barrel not developed in one region will lead to 0.2-06 barrels not consumed over the longer term (Erickson 2016).

Current IPCC predictions also show that in cleaning up aerosol emissions we could face a global temperature spike of 0.6-0.7C that is not accounted for in current IPCC projections. The global dimming effect of aerosols has to date suppressed a temperature rise of 0.6-07C. If accounted for properly 1.5C is an impossible myth and we will have heated by 1.9C globally now without that dimming.

Gas is not clean and offsets cannot be relied upon whether CCS or vegetation (these may become carbon positive emitters as temperatures rise).

It is folly for the NT, to support actions increase the times of the years where temperature and humidity will significantly reduce the period where safe outdoor activities for humans and animals exist. The impact on agriculture and biodiversity will also be severe. To expand gas production is to endorse a pathway to ecocide.

Gas as a transition fuel is now a myth - it is far too late, and is now a pathway to stranded assets and wilful damage to future life on the planet.

Grattan Institute, and others do not see the opening up of gas such as the Beetaloo basin as being viable without government subsidies. Encouragement of further gas development is literally a "dead end" for all - whether finance, water supplies, environmental impacts, and life for many organisms including ultimately humans.

Unless we accept the science that tells us that globally, we are approaching or have exceeded several tipping points that imperil our future, any decision to accept further gas expansion is a

clear endorsement of short term selfishness and longer term total incompetence by current decision makers.

As a Civil Engineer/Town Planner and former Chair of Eng Aust (Vic) Sustainable Engineering Society, I have been exposed to a wide range of credible evidence based findings that make it frighteningly clear that expansion of gas production and other fossil fuels is the dead end we must decide to avoid now. Accordingly, given the evidence globally of a need to avoid new fossil fuel development I respectfully suggest the only rational evidence based position for our best future outcome is not to approve origin Energy's application.

Keith Altmann
****
VIC 3442

Alwis, Damian – Sunday, 14 August 2022 – 10:19:25

Subject	Origin should know better!
From	Damian De Alwis
Sent	8/14/2022 10:19:25 AM

The NT Government and Origin should both know better. The times and tides are changing, we do not need to frack. We need to lead the world on renewable energy! The NT budget is in crisis, but with careful and well planned investment, it can be an Australian leader on these matters of energy production!

Damian de Alwis
****
ACT 2914

Ambrose, Jane – Friday, 12 August 2022 – 12:31:42

Subject	Please reject plans to allow fracking in the NT
From	Jane Ambrose
Sent	8/12/2022 12:31:42 PM

I am an ecologist and landcarer living in NSW. I am opposed to fracking going ahead in the NT for the following reasons:

Fracking for oil and natural gas is harmful to our environment and ultimately to our planet's climate through production of large increases in CO2.
A fractured well is more intense than for conventional oil and gas drilling. Fracking has been blamed for leaking millions of tons of methane, a greenhouse gas more potent than carbon dioxide. Fracking is also associated with other airborne hydrocarbons that can cause health and respiratory issues. Fracking uses large amounts of water, which can become contaminated and affect local groundwater. Fracking can also poison surface water, impair landscapes, and negatively effect wildlife.
The Traditional Owners who's land is being considered have expressed their strong opposition to Origin's and other companies plans from going ahead.
I strenuously object to Origin's fracking proposals in the NT from going ahead
yours sincerely, Jane Ambrose

Jane Ambrose
****
NSW 2622

Ammann, Anne – Saturday, 13 August 2022 – 15:48:18

Subject	Please stop Origin's Plans
From	Anne Ammann
Sent	8/13/2022 3:48:18 PM

To
The Northern Territory Department of Environment, Parks and Water Security,

My name is Anne. I live in the Upper Blue Mountains in NSW. I am writing to object to Origin Energy's plans to open 12 new gas fracking Wells in your state.

I have spent hours of my life writing to panels and government departments asking them to stop allowing new plans for gas fracking and/or the expansion of other fossil fuel projects. It seems to me that some governments and companies are constantly ignoring the illegality of their actions, under the Paris Agreement, of net Zero by 2050. Last year the previous federal government again signed an Agreement at the COP26 Conference, in which they further committed themselves to 'managing down' the fossil fuel industry. Gas, despite greenwashing by the industry and its proponents, is not a transition fuel. It is a FOSSIL FUEL.

The Australian population confirmed its endorsement, through its combined majority vote for Labor, the Greens and the Teale candidates at the last federal election, of the policy that energy should increasingly be produced by non polluting renewables. Therefore, we expect that the policy of the incoming government would be to cease further expansion of this type of mining. In saying this, are not asking that governments stop current and existing mining operations but we are asking them not to approve NEW operations. I ask that the NT government be allowed to act according this policy change.

It is absolutely urgent that no new mining should take place. Despite this, Origin Energy, in asking the NT Government for approval of their fracking plans, is not only asking them to do something unpopular with the Australian people as a whole (The ACF found 51% of people in each and every electorate placed climate change in their top 3 concerns) but deeply offensive to the Traditional Owners, who have been fighting against gas fracking for years. I believe this behaviour is immoral.

Origin Energy is trying to, for their own selfish purposes, pressure cash strapped governments to act against the people's mandate to reduce greenhouse gas emissions. In my view Origin Energy is not only immoral, but as the Lock the Gate Alliance puts it, they are "sneaky" as well. Origin Energy is applying to mine, produce and sell gas from leases that meant for exploration only. Incredibly they are pushing to avoid going through the usual approvals process. This idea seems to be an arrogant corruption of due process.

It is accepted beyond doubt now, that the extraction and use of fossil fuels is threatening the health of the planet, humans and all life. Similarly, it is known that the burning of gas and other fossil fuels is increasing the amount of CO2 in the atmosphere, which now, is at dangerous levels. Despite denials from the industry, many other toxic gases are known to escape during the fracking process, one of the worst being methane. Over 20 years, methane is known to be 85 more times more toxic than CO2. The American and now the Queensland experience show how destructive to the local environment these gas wells are. Land for cultural and agricultural purposes is rendered useless. Water aquifers are forever polluted for kilometers underground, rivers are polluted access to drinking water is threatened.

There is NO social or economic license, except for some shareholders perhaps, for these wells to be explored and mined.

No-one I know, thinks for instant that Australia has a shortage of gas, so the argument that we need to resort to fracking to fix the shortage of domestic gas has little credibility. Most of us believe that gas companies are creating shortages by selling too much conventionally mined gas overseas and care little for the concerns of the domestic markets. We read in the media descriptions of cartel type behaviour, and collusion over prices amongst the big gas companies. There doesn't appear to be any evidence to the contrary at the moment.

Why would anyone invest in a dying, wrecking and expensive industry anyway. Solar panels, wind generators and batteries are clean, minimally destructive and cost effective. Landowners I am sure would much prefer to see safe solar panels on their properties than potentially dangerous leaking pipelines under their properties. If remote communities are not already electrified they should be assisted by government to install their own solar electricity. It is far cheaper and less polluting than fuel powered generation.

I have lived with stand alone solar power for 30 years at home and grateful that we don't have to pay the crippling power prices of today. The sooner Australia is electrified the better for the environment, our health and our finances. The International Panel on Climate Change declared solar power as the "cheapest" form of power ever.

I just cannot see any sense in the suffering and hardship that this dreadful proposal, if allowed, would cause. I urge your department in the strongest possible terms not to approve of Origin Energy's Plan.

Anne Ammann

Anne Ammann
****
NSW 2786

Anderson, Alison – Thursday, 11 August 2022 – 19:48:43

Subject	Origin's fracking plans must stop
From	Alison Anderson
Sent	8/11/2022 7:48:43 PM

To the Northern Territory Department of Environment, Parks and Water Security

I chose to live in Australia and currently live in Sydney.

I have travelled to the Northern Territory and explored from Darwin to Broome, with an unforgettable excursion to the Mitchell Plateau. What I saw was simply amazing - Nature in its pristine, pure, raw state.

Learning that Origin plans to open numerous fracking drills and realising that, if this is not opposed, other corporations will do the same, I feel compelled to write to you.

I would like to add my voice to that of the Traditional Owners who are and continue to be the guardians of this land. We say NO to greedy corporations who will pollute the land and water for money.

Australians strongly voted in the recent elections for more climate change NOW, not in the years to come. It is indeed time to stop the activities of our old traditional, polluting and anti-green corporations. Their heavy tactics and green-washing should be seen for what it truly is - blind power and money grab!

We need to develop clean, sustainable and efficient energy sources. The technology is available now, the science backs the urgency of doing so now - when will we say NO, STOP? And who is able to say stop? Not the younger generation who are looking to us to act and choose them over money, power and corruption. Not the Traditional Owners or myself. You are. You were chosen to represent us and have the responsibility of representing us against the greedy and short-sighted corporations. Will you? Will you set the example for the next generation? What will you tell your children when they ask you what part you played in protecting this land and taking climate action forward?

It is time for Australia to lead the way on the world stage by taking "a right" action towards creating a future. The world can no longer wait for change, all of us - you, me, children, guardians of this land - we are the change.

Please please please help create a bright, clean and sustainable future for every Aussie by backing the Traditional Owners.

Kind regards,

Alison Anderson

Alison Anderson
****
NSW 2011

Anderson, Angela – Saturday, 13 August 2022 – 19:16:46

Subject	Say No to Origin…No to Fracking…
From	Angela Anderson
Sent	8/13/2022 7:16:46 PM

When will Governments listen .Australia must not continue destroying our heritage and our children's futures. The planet is in trouble. Climate change will destroy our country and the First Nations endless fight to save us from ourselves. Wake up, Origin and leave this land alone. It is already too late!!
No more fracking, no more mines in pristine, precious country.

Angela Anderson
****
QLD 4565

Anderson, Carol – Sunday, 14 August 2022 – 14:42:44

Subject	Stop Origins fracking in NT and Australia!
From	Carol Anderson
Sent	8/14/2022 2:42:44 PM

Northern Territory department of Water security
Dear Minister
PLEASE listen to our ailing planet! Gas fracking uses huge volumes of our precious water and risks destroying ongoing water security. People and our environment are more important than gas companies making huge profits! Please consider the remote communities that depend on clean adequate water to survive.

Do not allow Origin to frack gas in NT. Climate change is already causing massive environmental changes. Our unique animals are at further risk of extinction all for a short term money hungry gas industry. We Australians pay more for our gas than Origin's overseas clients all at the expense of our beautiful Australian environment.

PLEASE DO NOT ALLOW GAS FRACKING IN OUR BEAUTIFUL NT.

Yours sincerely
Carol Anderson

Carol Anderson
****
ACT 2614

Anderson, Keith – Saturday, 13 August 2022 – 14:56:40

Subject	Stop fracking plans in NT
From	Keith Anderson
Sent	8/13/2022 2:56:40 PM

To the NT Department of Environment, Parks and Water Security,
I am concerned that industry is putting the desire to make a profit ahead of the welfare of Country and people. The environment needs to be protected. Awful things have happened in US states where fracking went ahead over environmental concerns.
Please protect our future water and climate.
Regards
Keith

Keith Anderson
****
ACT 2602

Anderson, Patrice – Sunday, 14 August 2022 – 16:32:22

Subject	Stop Origin's Fracking Plans
From	Patrice Anderson
Sent	8/14/2022 4:32:22 PM

Please, for the sake of not only the traditional owners of this land, but those people who come after us, refuse Origin's attempts for twelve fracking sites.

Fracking has no benefits to society. It pollutes the land and causes irreparable damage.

I implore you to reject Origin's request to undertake fracking.

Patrice Anderson
****
NSW 2259

Anderson, Sue – Friday, 12 August 2022 – 17:36:30

Subject	Stop Origin Energy's damage to land and air
From	Sue Anderson
Sent	8/12/2022 5:36:30 PM

I am a grandmother and have been worried for 40 years about Climate Change - firstly for my children and now for my grandchildren. Climate Change has been known about for over 40 years and it is well and truly time we did something serious about it. Fracking must not be allowed to damage country and risk polluting underground water. Aboriginal people are devastated about the prospect of damage to their lands so why should this be allowed when it is not necessary and is so damaging? It seems to me that Origin is trying a last ditch effort before the climate is so damaged that no fracking or gas extraction could ever be allowed again. But why wait until then? Damage has already been done and this just adds more carbon pollution, and more damaged country and more Aboriginal people who are devastated. Origin must not be allowed to carry out this fracking.

Sue Anderson
****
NSW 2107

Anderson, Walter – Friday, 12 August 2022 – 12:42:57

Subject	Fracking and fossil fuels
From	Walter Anderson
Sent	8/12/2022 12:42:57 PM

The evidence on two fronts is now stacked against the idea of fracking on traditional lands. Firstly, we now know that such proposals will add to the speed of climate change by adding more CO2 to our atmosphere. Secondly, we are finally realizing and acknowledging that we owe much to our First Nations People and should listen to them to refrain from disturbing the land that we took from them so many years ago.
For the sake of posterity - STOP IT!!!

Walter Anderson
****
WA 6055

Andrews, Christopher – Sunday, 14 August 2022 – 16:16:02

Subject	Stop Otigin NT fracking plans.
From	Christopher Andrews
Sent	8/14/2022 4:16:02 PM

Northern Territory Department of Environment, Lands and Water Security.

I am writing to express my concern and dismay at the proposed fracking in the NT. The water table is a precious resource and the potential for adverse outcomes due to fracking as seen in many areas of the USA where irreparable damage has occurred. It is my opinion that Indigenous leaders concerns should be headed and that independent environmental assessment be conducted prior to any granting of licenses.

Yours
Chris Andrews

Christopher Andrews
****
VIC 3104

Andrews, Craig – Saturday, 13 August 2022 – 14:16:46

Subject	Stop Origin Energy from Fracking well in the NT
From	Craig Andrews
Sent	8/13/2022 2:16:46 PM

Att: Northern Territory Government

Re: Origin Energy

Good day,

I am retired now but worked in the oil and gas industry and have a degree on earth sciences. I have studied fracking for CBM or CSG as it's known in Australia.

I can state that fracking is a highly flawed practise and cannot be considered as 'safe'.

The inherent problems of geological substrata will eventually lead to leakage through: poor cementing, fugitive emissions, ground water and subterranean water contamination. This is proven as fact.

Metal pipes buried will corrode and in some circumstances this can occur in a short time ie a few years. Concentration of H2S in the formation of these wells combining with the prevalent CO2 will form a high concentrate Sulphuric Acid which quickly corroded the steel pipes in both drilling and production phases.

To allow origin to Frack these wells in the NT will cause significant and long term damage to the environment including the higher ground water and further to large subterranean water bodies.

Please do not allow this practice to continue.

Yours Sincerely
Craig ANDREWS
PO
BOX 6298
Dickson ACT 2602

Craig Andrews
****
NSW 2428

Andrews, E – Thursday, 11 August 2022 – 15:07:43

Subject	Origin's Fracking Plans MUST BE STOPPED!
From	E Clyde Andrews
Sent	8/11/2022 3:07:43 PM

Origin plans to open twelve new fracking drills in the Northern Territory, which will inevitably threaten water, climate and the First Nations People's cultural heritage. Our First Nation People have been resisting this for many years, but Origin continues on its way, not caring about the damage which they will inevitably cause, both to our land and to its people.
If the Northern Territory government approves these reckless plans, it would also set a dreadful precedent for other fracking corporations to do exactly the same.
Please reject Origin's desperately unwanted plans, for the sake our climate, our relations with our First Nations People and our beautiful land.
Thank you very much for considering this matter -- and, hopefully, rejecting it out of hand.

E Clyde Andrews
****
VIC 3155

Andrews, Jenny – Sunday, 14 August 2022 – 08:45:37

Subject	No more fracking
From	Jenny Andrews
Sent	8/14/2022 8:45:37 AM

Please do not approve Origin's plans to drill 12 more fracking wells in NT.

jenny Andrews
****
ACT 2614

Andrews, Thomas – Thursday, 11 August 2022 – 15:44:11

Subject	Stop Origin's fracking plans
From	Thomas Andrews
Sent	8/11/2022 3:44:11 PM

Key points #1: The Australian government has sanctioned two more Russian oligarchs in response to the war in Ukraine Billionaire Viktor Vekselberg has stakes in a company linked to Origin Energy's gas exploration work in the Northern Territory Origin Energy says it is unlikely Mr Vekselberg's business dealings will affect their activities.

Key points #2: ANDREW Michelmore, Jason Chang and Alice Wong. They are three people from very different backgrounds who exemplify the new spirit of Australia’s business relationship with China. It is a relationship that is entering a more sophisticated and more durable age, in which the extent of our shipping treasured goods to each other remains immense but which also involves a far more complex range of interactions. Michelmore is at the cutting edge of an extraordinarily bold venture in internationalism. He is chief executive of MMG, a Chinese mining company based in Melbourne that was formed five years ago when Chinese state-owned giant Minmetals took over the assets of OZ Minerals.

Thomas Andrews
****
NT 0870

Angeltveit, Andreas – Sunday, 14 August 2022 – 21:32:27

Subject	Stop Origin's Fracking Plans
From	Andreas Rossing Angeltveit
Sent	8/14/2022 9:32:27 PM

Fracking cause long term damage to the environment and against innocent species. The cost of recovery far exceeds the short term gain. Only after many generations, nature may find a normality again.

Andreas Rossing Angeltveit
****
VIC 3915

Angove, Colleen – Friday, 12 August 2022 – 06:35:46

Subject	Origin's fracking plans
From	Colleen Angove
Sent	8/12/2022 6:35:46 AM

Not only are Origin's fracking plans so detrimental to our fight against climate changes, it is so very damaging to those who hold these areas sacred and resourceful.
These facts alone should make a successful case against these proposed fracking plans.

Colleen Angove
****
NSW 2620

Anna – Thursday, 11 August 2022 – 14:34:55

Subject	RE: Automatic reply: Block ORIGIN from risking our ancient aquifers.
From	Anna
Sent	8/11/2022 2:34:55 PM

Fracking injects wastes into substrate with no real understanding of hydrology and potential OVER TIME to pollute pristine ancient aquifers.

Insanity.

Any so called ‘Minister for the Environment’ knows this. Do not bend to corruption.

Anna

Sent from Mail for Windows

From: OriginPetroleum DEPWS <mailto:**********>
Sent: Thursday, 11 August 2022 3:02 PM
To: Anna Harpley <mailto:**********>
Subject: Automatic reply: Block ORIGIN from risking our ancient aquifers.

Thank you for your comment regarding Origin Energy B2 Pty Ltd Amungee NW Delineation Program EP98 Environment Management Plan. Your comment will be provided to the Minister for the Environment for consideration under Regulation 11 of the Petroleum (Environment) Regulations 2016. The Minister will make a decision regarding the EMP and will publish the EMP, Approval Notice and Statement of Reasons and all public submissions received during the public comment period, within 14 days of the decision in accordance with Regulation 24. In accordance with the DEPWS “Guidance for Public Submission on Petroleum Environment Management Plans” February 2020, any comments received after midnight 15 August 2022 will not be accepted as a public submission and therefore not considered under Regulation 11. Information about EMPs, including those under review and past approvals, can be found at: https://depws.nt.gov.au/onshore-gas/environment-management-plan .

Ansari, Lynette – Sunday, 14 August 2022 – 16:28:25

Subject	Stop Origins fracking plans
From	Lynette Ansari
Sent	8/14/2022 4:28:25 PM

To the officer in charge
Northern Territory Dept Environment,Parks and Water Security
Instead of allowing more wells to be sunk destroying our valuable water tables and the environment, you should be taking a leaf out of Western Australia's Government in mandating that the domestic market be supplied first with economic gas before it is shipped at a profit overseas. This way our valuable resource will be protected and Australians will get a fair go instead of paying exorbitant prices for a resource mined in Australia Currently you are allowing our environment to be destroyed while the Mining giants reap huge profits selling our resource to overseas markets.The environment, Citizens, food bowls and cattle stations will pay the price for greed and your departments failure to regulate this industry. You have a moral obligation to, stop Origins and any other companies fracking plans to prevent them from wrecking the future welfare of Australia and its inhabitants.

Lynette Ansari
****
QLD 4160

Appleby, Sue – Sunday, 14 August 2022 – 16:48:25

Subject	NO FRACKING in NT
From	Sue Appleby
Sent	8/14/2022 4:48:25 PM

Respect land, water, culture. Not money

Sue Appleby
****
VIC 3193

Arbidans, Marjorie – Saturday, 13 August 2022 – 09:51:15

Subject	STOP ORIGIN PLANS TO FRACK
From	Marjorie Arbidans
Sent	8/13/2022 9:51:15 AM

We do not need any more fossil fuels our planet is in trouble and there is no where else to go this planet is only place we can live. Please respect the traditional owners of the country.
It is a about greed money money money.

Marjorie Arbidans
****
NSW 2062

Arif, Cherie – Friday, 12 August 2022 – 16:44:20

Subject	Stop Origins Fracking put First Nations people First
From	Cherie Arif
Sent	8/12/2022 4:44:20 PM

Fracking impacts our climate, water and communities it cannot be allowed.
Our First Nation communities should not be ignored and treated as if they do not exist. This is their lands that they have protected and loved from the beginning of time how can we be so disrespectful.
The climate impacts would be monumental and that's only considering the emissions and yet they claim they will be reducing emissions. All about MONEY.
What about water ? The amount that's is needed is obscene. Drought, fires the water gets poisoned the communities that rely on it get ill does no one care.
First Nation people must be given consideration and commitment to restore and protect their lands which they and their fore fathers have done from the beginning. They deserve our respect and appreciation for all they do to protect this special land.
The ban must be reinstated. NT stand up and show the rest of Australia and the world the way forward and show that First Nation people mean much more than Money

Cherie Arif
****
NSW 2222

Armitage, Karen – Sunday, 14 August 2022 – 15:52:02

Subject	karenlearmitage@gmail.com
From	Karen Armitage
Sent	8/14/2022 3:52:02 PM

I write to implore the NT government reject the proposed Origin12 new fracking drills!

Karen Armitage
****
NSW 2040

Armour, Jenny – Friday, 12 August 2022 – 21:12:35

Subject	Stop Origen fracking NT
From	Jenny Armour
Sent	8/12/2022 9:12:35 PM

To the Northern Territory Dept of Parks, Wildlife and the Environment
Dear Sirs, I am horrified that Origen have not been stopped from doing so much harm to OUR NT. I came here from London in 1983 to live, and feel privileged to have enjoyed such a rich mix of culture, history and environment that makes up OUR NT. You are charged with the responsibility of preserving our riches, and I am devastated that you are not taking your job seriously. Please ACT NOW, before it is too late.

Jenny Armour
****
NT 0832

Armstrong, Kevin – Friday, 12 August 2022 – 07:22:30

Subject	No fracking in NT.
From	Kevin Armstrong
Sent	8/12/2022 7:22:30 AM

I have recently had my account transferred to Origin after Enova's failure. I support the NT traditional owners in defending their country against the unconscionable greed of your company. I will not remain a customer of Origin unless you abandon your plans to frack in the NT or anywhere else. By ignoring the wishes of the traditional owners you demonstrate that profit is more important to you than ethics. This is egregious.
Kevin Armstrong.

Kevin Armstrong
****
NSW 2422

Arnold, Eliza – Friday, 12 August 2022 – 15:28:45

Subject	Stop origins fracking plan -ban fracking
From	Eliza Arnold
Sent	8/12/2022 3:28:45 PM

My name is Eliza and I am writing today to implore you to really really think about banning fracking in the NT.

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT which is already horrible given the state of the current climate.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into their EMP, it's even worse…

They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

Please consider the pleas and urges of traditional custodians and all of us who long to see our country remain healthy.
Make a SMART, SAFE AND HEALTHY decision for all of our futures.
Be brave.

Ban fracking.

Sincerely
Eliza

Eliza Arnold
****
VIC 3016

Arnold, Gemma – Saturday, 13 August 2022 – 18:40:26

Subject	Origin Fracking Plans
From	Gemma Arnold
Sent	8/13/2022 6:40:26 PM

Fracking the Great Artesian Basin and surrounds, and the top end of Australia is an environmental catastrophe and is a precedent that will lead to the destruction of Australia's clean water supplies, and our future as young people. Coal and gas is an answer we know is not sufficient, and I am flabbergasted as to why the Australian government privatises our assets, doesn't invest in the future through sustainable practice, and continues to completely destroy our fragile ecosystems. I am very hurt by our governments disposition to ignore the science and not protect the future of humanity in Australia through environmental reform. The continent of Australia is very important, and it is time for government to stand up for what is right for our earth.

Gemma Arnold
****
NSW 2646

Arnold, Marian – Saturday, 13 August 2022 – 15:22:40

Subject	NT Fracking proposals
From	Marian Arnold
Sent	8/13/2022 3:22:40 PM

large corporations like Origin Energy are not above the law although they were encouraged to so believe by the previous Federal Government. You are clearly motivated at this time by the Ukraine war and its impact on Russian gas supplies.
I believe that I am, inadvertently, a shareholder through my superannuation and as such hereby wish to register my objection and disapproval of the exploitation of any gas fields anywhere but in particular on First Nations land.
Yours sincerely

Marian Arnold

Marian Arnold
****
SA 5275

Arnold, Richard – Friday, 12 August 2022 – 15:45:10

Subject	Stop Origin's fracking plans
From	Richard Arnold
Sent	8/12/2022 3:45:10 PM

Origin is planning to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and the climate. The Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please listen to the demands of Traditional Owners and take account of the impact this will have on global warming. The future of our children and grandchildren is at stake here.

Richard Arnold
****
VIC 3056

Arnold, Vincent – Sunday, 14 August 2022 – 14:06:01

Subject	Stop fracking in the Northern Territory
From	Vincent Arnold
Sent	8/14/2022 2:06:01 PM

This is asking for a permanent stop to gas extraction. It is an enviromental disaster to extract and burn this polluting gas. The people don't want it and it harms the country. Please STOP it. Thank you V Arnold.

Vincent Arnold
****
QLD 4703

Artley, Gail – Thursday, 11 August 2022 – 14:24:15

Subject	NO MORE NEW FRACKING DRILLS IN THE NT.
From	Gail Artley
Sent	8/11/2022 2:24:15 PM

To the Northern Territory Department of Environment, Parks and Water Security.
It is time to take a stand.
We need to take some real and positive steps towards EFFECTIVE CLIMATE CHANGE.
No new fracking drills, no new coal mines, STOP the purchases of Carbon Credits, which are just another RORT.
Our water is precious.
Aboriginal cultural sites are precious.
Climate change is REAL.
Our children are frightened for their future. Listen to them.
Don't these greedy miners have children?
What sort of world do they want to leave for their children and grandchildren?
NO MORE FRACKING MINES OR NEW COAL MINES!

Gail Artley
****
QLD 4212

Arundell, Clare – Sunday, 14 August 2022 – 15:05:29

Subject	Stop Origin Fracking
From	Clare Arundell
Sent	8/14/2022 3:05:29 PM

To Northern Territory Department and of environment parks and water security . Please I beg you to stop Origin to frack in our country.
We do NOt want further damage done to climate and water supplies. For the sake of our nation listen to me.
Thank you.

Clare Arundell
****
VIC 3250

Ashton, Janet – Friday, 12 August 2022 – 16:19:19

Subject	STOP FRACKING PLANS!!
From	Janet Ashton
Sent	8/12/2022 4:19:19 PM

Northern Territory Department of
Environment, Parks and Water Security

TO WHOM IT MAY CONCERN

I am a retired Office Manager fortunate to have lived in the beautiful Blue Mountains of NSW for the past 33 years; another of our precious national resources.

Fracking is the process of injecting liquid at high pressure into subterranean rocks, boreholes, etc. to force open existing fissures and extract oil or gas. It has been blamed for leaking millions of tons of methane (a greenhouse gas more potent than carbon dioxide).

Vital to the process are the millions of gallons of fracking fluid; a fluid made up of over 90% water. While each company's formula is a closely guarded secret, a review of the recognized 1,021 chemicals in the various proprietary mixes are known to include surfactants, biocides and even toxic substances like volatile organic compounds and carcinogens. Sadly, as fracking is becoming more widespread, of primary concern to me is the potentially damaging impact on our precious limited water resources.

Fracking can release dangerous petroleum hydrocarbons, including benzene, toluene and xylene. It can also increase ground-level ozone, a key risk factor for asthma and other respiratory illness, therefore it is not safe to live near fracking sites and adding more has a direct negative impact on the already fragile health of our indigenous population. Traditional Owners have been staunchly defending their country against fracking for years.

Fracking converts rural and natural areas into industrial zones, replacing sensitive indigenous sites and farmland with well pads, roads, pipelines and other infrastructure; damaging our rare and precious natural resources.

Without rigorous safety regulations (which rely on human intervention and can never be guaranteed), fracking can poison groundwater, pollute surface water, impair country, threaten wildlife and our climate.

In the best interests of our wonderful land and people, please reject Origin's Environment Management Plan.

Yous sincerely,

janet l ashton

janet ashton
****
NSW 2777

Assaly, Christopher – Sunday, 14 August 2022 – 15:19:37

Subject	christopherassaly@gmail.com
From	Christopher Assaly
Sent	8/14/2022 3:19:37 PM

This is not needed. Respect Indigenous land and stop fracking.

It's destroying valuable water resources and cultural land.

Move to renewablea and respect the wishes of traditional land owners.

Christopher Assaly
****
NSW 2539

Atkinson, Brewis – Saturday, 13 August 2022 – 07:27:49

Subject	Cancel Origins Right to Frack
From	Brewis Atkinson
Sent	8/13/2022 7:27:49 AM

Dear Minister.

Not only is it time to leave natural gas in the ground and unburnt because the globe cannot reasonably absorb any more greenhouse gas pollution, but it is even worse to frack ground with the massive greenhouse gas pollution caused by the rogue emissions.

Please bring the NT into the 21st century and cancel all existing, and issue no future, rights to frack in the NT.

Citizens and animals of Australia and the globe need you to be courageous and show responsible leadership on this critical issue.

Yours sincerely
W. Brewis Atkinson
Retired Army Officer

Brewis Atkinson
****
VIC 3913

Atkinson, Diane – Sunday, 14 August 2022 – 12:53:30

Subject	In defence of our future - don't frack the NT!!
From	Diane Atkinson
Sent	8/14/2022 12:53:30 PM

Origin has no plans to manage the wastewater created in the fracking process. This alone should be reason for a responsible government to veto their plans.

Let's consider the social implications of this proposal. Origin Energy will be a big winner, but Aboriginal people whose culture connects them to this country, will be the big losers. The environmental impacts can be devastating, and the costs are never borne by the companies that make the profits. This is a serious flaw in the way these projects have historically been run.

It could be argued that the gas will benefit the nation, but we have seen how most of Australia's gas is sold overseas, so that argument holds no water.

Speaking of water, this precious resource will be squandered by use in this process. The water is then contaminated and presents an additional problem.

Aboriginal people are the most disadvantaged in this country, and this proposal will further their disadvantage. Meanwhile a huge enterprise will make profits for themselves, with little value to the nation as a whole. How can that be in our nation's interest, or in the interests of the Northern Territory, which should have a particular concern for indigenous Australians, who make up such an important part of the state's population?

Diane Atkinson
****
SA 5153

Atkinson, Stephen – Thursday, 11 August 2022 – 14:52:24

Subject	Stop Origin's reckless fracking plans
From	Stephen Atkinson
Sent	8/11/2022 2:52:24 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.
Traditional Owners have been staunchly defending their country against Origin for years.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
It is crucial to stop Origin's fracking plans and protect country and the health of our planet.

Stephen Atkinson
****
NSW 2577

Attwood, Chris – Friday, 12 August 2022 – 14:44:53

Subject	chris.attwood1@gmail.com
From	Chris Attwood
Sent	8/12/2022 2:44:53 PM

My name is Chris Attwood and I live on Garigal land.
Whilst my lands and home are not under threat from Origin's gas fracking plans the lands and livelihoods of homes of many others are.
The gas fracking companies care not for the destruction they leave behind, the environmental damage they cause to the lands they drill into or the vast amounts of scope 1 and scope 3 greenhouse gasses that they directly and indirectly release due to the extraction of this gas. Their contribution to Australian society is minimal with foreign ownership meaning that they pay no tax as profits are off-shored.
The benefits they provide are shortlived and the damage and the consequences have the potential to have inter-generational effects.
I would therefore respectfully request that Origin's Environmental Management Plan is rejected by the Northern Territory's Department of Environment, Parks and Water Security.

Thank you for the opportunity to provide this submission.

Chris Attwood

Chris Attwood
****
NSW 2107

Audsley, Daniel – Thursday, 11 August 2022 – 17:40:44

Subject	Fracking can't be approved
From	Daniel Audsley
Sent	8/11/2022 5:40:44 PM

This is Daniel Audsley here, from further south in NSW. Still I am horrified to hear that so much fracking can possibly be approved here in Australia. So I would like it if The Northern Territory Department of Environment, Parks and Water Security It self did not let Origin get the go ahead here.
From my understanding Fraking is extreemly damaging to the environment through damaging all water Below, which infects such an enourmous area not just the well's alone. So I believe Fracking is only short term and doesn't produce the energy even put into it, so why even try it in the first place. We must Never let Fracking occur on a Dry continent such as a Australia.

Daniel Audsley
****
NSW 2454

Audus, Harry – Friday, 12 August 2022 – 15:04:38

Subject	Origin's fracking plans fly in the face of humanity
From	Harry Audus
Sent	8/12/2022 3:04:38 PM

I'm a retired engineer/planner living in Brisbane. I have children and grandchildren, and I am very concerned for their future; indeed for the immediate future of all life on this planet. I am writing to express my absolute opposition to all new fossil fuel extraction, and to Origin's proposal in particular.

Origin's proposal will contribute to the calamity we all face - the climate crisis. The IPCC report and the great majority of climate scientists have said that we simply must not be extracting let alone burning more GHG-producing fuel if there's any chance of keeping the concentration of GHGs in the atmosphere to a relatively safe level.

To make matters worse, this proposed project risks polluting the water resources of the driest inhabited continent - a risk that threatens the very food supply we rely on and the habitats our native life needs to survive.

And as well as the disregard for our very existence, the proposal is an insult to the First Nations whose land would be desecrated. Haven't we had enough of that?

We have the means and the sustainable resources not just to maintain but to improve the quality of all life in Australia and our prosperity. Must we continue to prop up an outdated, extremely harmful practice when there are so many viable alternatives that would provide long-term jobs?

Most Australians have recently voted for robust action on climate change. I am asking the Department to reject Origin's EMP as harmful to the future wellbeing of us all for the sake of a quick buck.

Harry Audus
****
QLD 4054

Austin, Ann – Sunday, 14 August 2022 – 20:30:31

Subject	Please, no fracking
From	Ann Austin
Sent	8/14/2022 8:30:31 PM

Dear Northern Territory Dept of Environment, Parks and Water Security, I am writing to ask you not to approve Origin's proposals that would see fracking introduced in the NT. As a professional with over 15 years in sustainability, I make this request on the basis of two primary concerns:
1) Australia needs to move investment away from fossil fuels - urgently. Origin need to be looking for opportunities to produce renewable electricity - not to find gas. Fossil fuels have done their time and we need to move forward to a carbon free economy. NT cannot afford to be locked into yesterday's technology.
2) Fracking is dangerous and environmentally detrimental. There are too many risks involved in terms of health and environment with fracking. NT has options; please make them renewable, healthy and forward thinking.
Thank you for your time in considering the views of concerned Australians.

Ann Austin
****
NSW 2066

Avalon, Kym – Monday, 15 August 2022 – 17:43:10

Subject	Ridiculous plan/investment
From	Kym Avalon
Sent	8/15/2022 5:43:10 PM

At this time with all the knowledge traditional and scientific this is an outrageously ridiculous investment
Stop
Invest in smart alternatives
Set an example

Kym Avalon
****
NSW 2446

Avery, Merrin – Saturday, 13 August 2022 – 11:25:57

Subject	Don't allow Origin's Fracking Plans
From	Merrin Avery
Sent	8/13/2022 11:25:57 AM

To the Northern Territory Department of Environment, Parks & Water security.
I believe the destruction/contamination of Northern Territory water through the destructive process of Fracking to be contrary to Government's correct purpose of protecting precious resources that cannot be replaced after Origin has contaminated it for no purpose but profit.
How will uncontaminated water for remote communities use be assured?
Origin have not implemented the recommendations from The Pepper Inquiry.
They may not even have correct licences to sell gas from these "exploratory" fracking wells.
It needs to be Government's business to protect our natural resources while minimising potential for such massive climate affecting emissions.

Merrin Avery
****
NSW 2284

Azoulay, Kochava – Friday, 12 August 2022 – 15:30:47

Subject	Stop the Origin's plan In NT
From	Kochava Azoulay
Sent	8/12/2022 3:30:47 PM

It's about time we will think about the smal citizens and not about the coompany.. money.. the politicians need to be remmber we vote for them in order to protect us ..

Kochava Azoulay
****
VIC 3184

B, Glenda – Friday, 12 August 2022 – 06:29:17

Subject	Please do the right thing and say No to fracking
From	Glenda B
Sent	8/12/2022 6:29:17 AM

Dear Committee Members,

Please no more harmful fracking.

I'm a mature age Queenslander and very concerned for the future our young people are facing, not to mention the damage that is occurring to Australia's First Nation People.

When are governing bodies going to learn from mistakes that have been made and recognize the harm that is being done with Fracking, Gas and Coal?

As a group making decisions for all Australians do you really want to keep repeating those mistakes?

Please do the right thing and say No more fracking.

Yours sincerely in hope
Glenda Van Den Berg

Glenda B
****
QLD 4285

Bacchus, Ruth – Friday, 12 August 2022 – 10:26:06

Subject	Please stop Origin's fracking plans
From	Ruth Bacchus
Sent	8/12/2022 10:26:06 AM

Dear Northern Territory Department of Environment, Parks, and Water Security,
My name is Ruth and I live in NSW, a long way from the NT. Nevertheless, I am writing to ask that the NT Government stop Origin's reckless fracking plans.
Origin plans to open twelve new fracking drills in the Northern Territory. These wells threaten water, cultural heritage, and our climate. Origin make huge profits, while making Australian consumers pay high prices.
Traditional Owners have been vigorously defending their country against Origin for years.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy Country, water, and our climate, but it would also be setting a horrifying precedent for other fracking corporations to do just the same in the NT and elsewhere.
Yours truly,
Ruth

Ruth Bacchus
****
NSW 2795

Bacon, David – Thursday, 11 August 2022 – 14:10:55

Subject	Please stop Origin fracking
From	David Bacon
Sent	8/11/2022 2:10:55 PM

To whom it may concern. I am a concerned parent, worried for my kids future. Even if i wasn't a parent i would be worried for the future generations. I'm from the Gold Coast and lucky enough to enjoy some of our beautiful environments. I've watched the Great Barrier Reef lose it's colour over the decades when visiting.

This plan by Origin is dangerous and unfair on many levels. Their plans will increase emissions adding to global warming when scientists are screaming for us to stop, even themselves demonstrating and some being arrested for the sake of future generations. It is also dangerous for the water table due to the chemicals used.

And then there is the concerns of the traditional custodians of the land which are too often ignored.

If the Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

David Bacon
****
QLD 4220

Baguley, Sandra – Sunday, 14 August 2022 – 10:22:58

Subject	Fracking on Traditional Lands
From	Sandra Baguley
Sent	8/14/2022 10:22:58 AM

To the Northern Territory Department of Parks, Land and Water Security
I implore you to ban the proposed fracking plan by Origin on indigenous land. The wishes of indigenous people should be respected.

Sandra Baguley

Sandra Baguley
****
VIC 3095

Bain, Robert – Sunday, 14 August 2022 – 17:33:41

Subject	Reject Origins Fracking Plans
From	Robert Bain
Sent	8/14/2022 5:33:41 PM

To the Northern Territory Department of Environment, Parks and Water Security.
My name is Robert Bain. I am 77 years of age and I live in regional southern Victoria, about as far away from the Northern Territory as it is possible to get without leaving the mainland. Why, therefore , should I be worried about a proposal to open twelve new fracking drills so far away from my home?
The answer is simple: any plans that will damage the country I live in and detrimentally effect the people who live close to the proposed fracking sites is something that I am cannot let happen without voicing my opposition.
The huge amount of groundwater needed to operate these 12 wells will have an impact on the water resources of the country, and therefore on the lives of the people living there. The traditional owners are opposed to Origins plans for this reason, along with concerns about damage to their country and their cultural heritage. If we are serious about a Voice for the traditional owners of the land, then we should be listening to their concerns about Origins plans.
I am also opposed to any new fracking proposals because of the detrimental effect these will have on our climate. The continued burning of fossil fuels will contribute to the further warming of our climate, and if we are serious about reducing warming then we must limit further gas burning.
Please reject Origins plans and give our planet a chance to survive.
Yours sincerely
Robert Bain

Robert Bain
****
VIC 3280

Baker, Don – Saturday, 13 August 2022 – 18:35:23

Subject	Origins Fracking plans
From	Don Baker
Sent	8/13/2022 6:35:23 PM

Fracking possibly can threaten long term water security. The risks to the environment are significant and the consequences of damage will be far greater than any possible short term economic benefit.

Don Baker
****
VIC 3147

Baker, Katina – Sunday, 14 August 2022 – 12:07:36

Subject	Stop Origin's fracking plans.
From	Katina Baker
Sent	8/14/2022 12:07:36 PM

Has this Northern Territory government no respect for the original owners of these lands that Origin plans for fracking,or for the environment for that matter?
Any decision to do so will set a precedent for others to follow,thus destroying country,water and our climate.
Please reject these submitted plans by Origin.

Katina Baker
****
NSW 2229

Baker, Lisa – Friday, 12 August 2022 – 14:23:04

Subject	Origin's fracking plans
From	Lisa Baker
Sent	8/12/2022 2:23:04 PM

Please make in informed decision when considering the fracking plans of Origin, taking into account all matters that are of value and letting go of the short sighted view that the only value there is in life is money.

Lisa Baker
****
VIC 3782

Baker, Maria – Friday, 12 August 2022 – 16:36:39

Subject	Stop Origin fracking in the NT
From	Maria Baker
Sent	8/12/2022 4:36:39 PM

No more Fracking

Maria Baker
****
QLD 4306

Balderstone, Patricia – Sunday, 14 August 2022 – 08:38:55

Subject	Please Stop Origin's Fracking Plans
From	Patricia Balderstone
Sent	8/14/2022 8:38:55 AM

I have read that Origin has plans for 12 new Fracking drills at the Amungee Mungee Pastoral Station, which will threaten water, climate and cultural heritage.
Origin will need 430 million litres of water to drill and frack from Gum Ridge Formation.
The toxic waste water will be 90 million litres, which they plan to truck interstate.

Please do not approve these drills.

I still have my mining claim in NSW (opal) 85 klms from Lightning Ridge.
I raised my family there and we had one bucket of water a day to wash. At the Ridge there was an artesian bore, plus we had the rivers so I know how important water and uncontaminated water is.

Please look after this country and do not approve these drills.

Patricia Balderstone
****
QLD 4567

Balen, Owen – Saturday, 13 August 2022 – 23:29:55

Subject	Stop Origins Fracking Plans
From	Owen Balen
Sent	8/13/2022 11:29:55 PM

My name is Owen Balen .I am a 78 yr old retd management consultant. I rejoice and congratulate the labour NT govt on their victory and request that you use your powers to stop any further development of fracking. We've had 10 years of environmental vandalism. Please use use your mandate and indeed the overwhelming mandate of the Australian peoples to do the right thing to Dave our planet.
Thank you
Owen Balen
****

Owen Balen
****
NSW 2065

Ball, Frank – Saturday, 13 August 2022 – 17:42:03

Subject	Dear Minister The time is long past where we can subsidise fossil
From	Frank Ball
Sent	8/13/2022 5:42:03 PM

Fracking Drills destroy the land, pollute the water supply, makes climate change worse. We are in a crisis! No more Fracking!!!

Frank Ball
****
NSW 2486

Ball, Stuart – Sunday, 14 August 2022 – 07:02:01

Subject	Origin
From	Stuart Ball
Sent	8/14/2022 7:02:01 AM

Lease consider carefully the environment when you consider origins application
No more can afford this risk
Please reject all future fracking

Stuart Ball
****
NSW 2489

Ballinger, Susan – Sunday, 14 August 2022 – 17:04:59

Subject	Do not Approve Origin's Fracking plans
From	Susan Ballinger
Sent	8/14/2022 5:04:59 PM

To the Northern Territory Dept of Environment, Parks and Water security.

I urge you to prevent Origin's plans to open 12 new fracking drills. It is imperative for the futures of my children and grand-children that we REDUCE natural gas emissions into the environment. Gas is so much more damaging to the atmosphere than emissions from burning coal.
This dept. is responsible for preserving the quality and quantity of our water, not destroying it. Please honour the purpose of the department and act to protect our environment before we reach the point of no return.

Susan Ballinger

Susan Ballinger
****
NSW 2535

Banks, Louise – Monday, 15 August 2022 – 11:29:14

Subject	Stop Origins Fracking Plans.
From	Louise Banks
Sent	8/15/2022 11:29:14 AM

It is not reasonable or environmentally friendly to continue with fracking for gas benefits, as the past has taught us that this process forces gases to mix with the underground water. You can not stand by and support a company to poison our water ways. This water supports life in Australia and must be protected at all cost.

louise Banks
****
VIC 3351

Baptista, Marc – Saturday, 13 August 2022 – 14:51:41

Subject	Just NO to the new Origin gas fields
From	Marc Baptista
Sent	8/13/2022 2:51:41 PM

Australia is ablut the magic of the big outdoors, pristine countrysides and a future for all our kids. I think that given the temperament of the public and their wishes, the extreme stress that the environment is showing, it is sheer foolhardiness to proceed with any further gas and/or coalfields. What part of 'protecting our future' do you not understand... Please don't permit any gas fields.

Marc Baptista
****
VIC 3205

Barbuto, Mary – Friday, 12 August 2022 – 16:16:59

Subject	Please stop Origin's fracking plans!
From	Mary Barbuto
Sent	8/12/2022 4:16:59 PM

I am a concerned 83 year old woman who is passionate about leaving a sustainable world to future generations.

I am dismayed and angry about Origin's fracking plans in Northern Territory regardless of the destruction of land, water pollution and the wishes of the Traditional Owners of the land.

I ask you, the NT Government to reject Origin's EMP.

Thank you for considering my request!

mary barbuto
****
VIC 3101

Barclay, Ande – Sunday, 14 August 2022 – 11:32:52

Subject	Please stop plans for Origin's fracking, NT
From	Ande Barclay
Sent	8/14/2022 11:32:52 AM

Once the ground water is toxic, so is the land.
Origin does not have to live there.
Andrew Barclay

Ande Barclay
****
VIC 3158

Barclay, Luke – Sunday, 14 August 2022 – 11:37:29

Subject	Land Care
From	Luke Barclay
Sent	8/14/2022 11:37:29 AM

NT department of mining and energy
Attention minister
Miners have a crap record of protecting or reabilitating lands so stop works until all processes are in place ideally put origin on notice and insidt on no further fracking

Luke Barclay
****
SA 5044

Barker, Katrina – Sunday, 14 August 2022 – 16:31:08

Subject	Origin's Proposed Fracking Drills in the Northern Territory.
From	Katrina Barker
Sent	8/14/2022 4:31:08 PM

Hi,

I'm writing to state my opposition to Origin being granted the right to open twelve new fracking drills in the Northern Territory.

If the NT Government approves these plans, it would pave the way for Origin to frack and destroy country, water, and our climate. It would also set a precedent for other fracking corporations to do exactly the same.

I ask that the NT government listen to the Traditional Owners of the land and stop Origin from doing this.

Yours Sincerely,

Katrina Barker

Katrina Barker
****
NSW 2050

Barnard, Sue – Saturday, 13 August 2022 – 14:47:34

Subject	Stop Origin's fracking plans
From	Sue Barnard
Sent	8/13/2022 2:47:34 PM

I hear that Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate. I am strongly against fracking - it damages the land, underground aquifers and goes against what the traditional owners of the land wish. We must not permit more fracking to damage our already fragile climate.
Please, please vote against any more fracking. If Origin gets permission for this activity, more companies will want to start fracking more of Australia.
Sue Barnard.
Hoping for a safe environment for my grandchildren.

Sue Barnard
****
VIC 3931

Barnes, Juliejulie – Saturday, 13 August 2022 – 17:17:54

Subject	Stop fracking in NT
From	Juliejulie Barnes
Sent	8/13/2022 5:17:54 PM

I’m a retired Registered Nurse from NSW. When my husband,in the navy was stationed in Darwin I worked at the Darwin Hospital. The Top End has so much that’s unique to Australia and infact the world.
Why jeopardise this ? Why endanger any water supply when life itself relies on this water These Aboriginal lands should be treated as sacred
If Origin gets the go ahead the fracking jeopardises so very much. Please say NO to fracking there’s so much at stake. From Julie Barnes

JulieJulie Barnes
****
NSW 2262

Barnes, Maureen – Sunday, 14 August 2022 – 08:02:16

Subject	Fracking by Origin should not be allowed
From	Maureen Barnes
Sent	8/14/2022 8:02:16 AM

Department of Environment NT
Fracking has been banned for good reason. The poisoning of the waterways and destruction of our lands is unacceptable to all Australians and our aboriginal communities in particular. There is enough scientific evidence to prove the dangers of this process
Mining companies have shown that they disregard many of the conditions imposed when they are mining our sacred country. Please put a STOP to this now.

Maureen barnes
****
VIC 3880

Barnett, Jenny – Saturday, 13 August 2022 – 16:16:33

Subject	Submission against approving Origin's 12 new fracking drills
From	Jenny Barnett
Sent	8/13/2022 4:16:33 PM

To the Northern Territory Department of Environment, Parks and Water Security

I am an Australian citizen currently living in South Australia but with close ties to the northern part of our country. I am writing because I am deeply concerned by Origin's ongoing fracking proposals and specifically their proposal to open 12 new fracking drills in the Northern Territory.

My concern is grounded in three serious issues:

* the failure to follow all the requirements of the Pepper report, the implementation of which requirements is the foundation of NT's lifting of the ban on fracking;
* the failure to honestly address climate impact and the intention to sell the gas from the proposed exploratory testing, which not only means keeping the drills open for an unnecessarily long period of time, but is also illegal without a production licence;
* the incredible amount of water required, its risk to local water sources, and the lack of any safe plan for the disposal of contaminated water.

For these reasons I ask the Department not to approve Origin's proposed Environment Management Plan.

Respectfully yours
Jenny Barnett

Jenny Barnett
****
SA 5035

Barnett, Kerrie – Saturday, 13 August 2022 – 16:51:12

Subject	STOP Origin's fracking plans
From	Kerrie Barnett
Sent	8/13/2022 4:51:12 PM

Northern Territory Government
Minister for Environment
Dear Sir/Madam,
Far from you, in the Southern Highlands of NSW, I have just read of Origin's plans to start fracking operations in the Territory. I'm not only shocked, but truly amazed that this is happening now, in 2022, when these days so much is known about the irreversible damage it causes.
We fought for ten years to stop this area being mined and our groundwater contaminated and the Land and Environment body agreed it was inappropriate for mining to go ahead.
In your area I am sure there will be serious cultural issues as well as the vital physical ones of water contamination and overall climate damage.
There are so many green energy options and developments going ahead now, that there is really no ethical case for this kind of destruction. It is only another case of a company wanting to achieve short term profits without thought for longterm damage.
The best thing that governments can do for national energy production, is to back the bright minds and innovative businesses that are developing these alternatives. As voters, we rely on our elected representatives to act responsibly on our behalves, and on behalf of the children and grandchildren yet to grow up.

Please use your authority, as elected representatives of the people of the Territory, to help our country move to a sustainable future for all. The first step is to have courage enough to say NO to fracking, anywhere, anytime.

Yours sincerely,
Kerrie Barnett, Teacher, Grandmother
Southern Highlands NSW

Kerrie Barnett
****
NSW 2577

Barrett, June – Friday, 12 August 2022 – 10:29:41

Subject	june.barrett@bigpond.com
From	June Barrett
Sent	8/12/2022 10:29:41 AM

Fracking impacts water community and environment so stop it. We need to leave a better place for our future generations, not worse.

June barrett
****
QLD 4152

Barrett, Marjorie – Friday, 12 August 2022 – 13:39:52

Subject	Don't Let Origin Frack Northern Territory
From	Marjorie Barrett
Sent	8/12/2022 1:39:52 PM

To Northern Territory Department of Environment, Parks and Water Security
Do not allow fracking in the Northern Territory. Fracking would pollute the underground water supply that communities rely on. Water is much more valuable than the profits of Origin,
Yours Sincerely,
Marjorie Barrett.

Marjorie Barrett
****
VIC 3162

Barrett, Nessie – Saturday, 13 August 2022 – 09:12:19

Subject	Origin's franking plans
From	Nessie Barrett
Sent	8/13/2022 9:12:19 AM

I am appealing to your Government to reject Origin plans to open twelve new fracking drills in the Northern Territory. These wells which threaten water, cultural heritage, and our climate. We cannot allow the use of our precious water resources to be used and risked through this activity which is know to cause devastating effect on the environment.

Traditional Owners have been staunchly defending their country against Origin for years and I support their right to protect their land and culture.

If the NT Government approves this activity it also set a precedent for other fracking corporations to do exactly the same.
I appeal to you to consider refusing Origin's application.
Sincerely Nessie Barrett's

Nessie Barrett
**********p
NSW 2353

Barry, Glenn – Saturday, 13 August 2022 – 06:56:11

Subject	Origin's Destructive Fracking Plans Must be Stopped
From	Glenn Barry
Sent	8/13/2022 6:56:11 AM

As a senior Australian citizen who has been entrusted to hold high level government positions, and who has carefully studied the impacts of fracking on the biosphere and affected environments, I am disturbed that Origin plans to open twelve new fracking drills in the Northern Territory are even being considered.

Fracking always markedly and adversely affects the water table, waterways, local communities and, more insidiously, our broader climate.

For these and other cultural reasons, Traditional Owners have for years been staunchly defending their country against the fracking plans of Origin.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and permanently damage the land, water, and our climate, but it would be setting a deadly precedent for other fracking corporations to do exactly the same.

Please stop this profit-driven madness now

Glenn Barry
****
NSW 2106

Barry, Kerrie – Saturday, 13 August 2022 – 20:53:02

Subject	Stop Origins fracking plans in Northern Territory
From	Kerrie Barry
Sent	8/13/2022 8:53:02 PM

Northern Territory Government
Please stop Origin from opening twelve new fracking drills and support the Traditional Owners.
Kerrie Barry

Kerrie Barry
****
VIC 3141

Barry-Armstrong, Christine – Friday, 12 August 2022 – 10:29:04

Subject	Stop Origins fracking plans
From	Christine Barry-Armstrong
Sent	8/12/2022 10:29:04 AM

To: Northern Territory Department of Environment, Parks & Water Security,
It is very worrying that fracking is still happening as we need to be moving to renewable energy sources as soon as possible. Water is becoming such a precious commodity, in Europe at present the major rivers are drying up and there is no reason due to climate change that it won't happen here. The risk of destroying water sources is unforgivable, not only for the indigenous communities but for all of Australia.
I hope you will consider the best thing for the country rather than companies.
Chris

Christine Barry-Armstrong
****
QLD 4556

Bartley, Adam – Sunday, 14 August 2022 – 20:46:02

Subject	NT NT Government stop Origin's reckless fracking plans
From	Adam Bartley
Sent	8/14/2022 8:46:02 PM

NT Government stop Origin's reckless fracking plans

Destruction of Country and Water is Not acceptable.
With respect

Adam bartley
****
NSW 2010

Barton, Susan – Friday, 12 August 2022 – 12:23:20

Subject	Stop fracking now
From	Susan Barton
Sent	8/12/2022 12:23:20 PM

Stop fracking now. It’s criminal and I can’t support Origen into the future if it does not support cessation of this

Susan Barton
****
VIC 3121

Bartsch, Chrissy – Thursday, 11 August 2022 – 15:05:04

Subject	STOP Origin's fracking plans
From	Chrissy Bartsch
Sent	8/11/2022 3:05:04 PM

The ineffective and destructive way to gain resources through fracking needs to stop.
It is ethically and politically incorrect and inappropriate to destroy cultural heritage.
It is unsustainable for the environment and our natural resources to pursue fracking at any location.

Chrissy Bartsch
****
WA 6163

Batten, Lisa – Friday, 12 August 2022 – 11:12:37

Subject	Stop Origin's fracking plans
From	Lisa Batten
Sent	8/12/2022 11:12:37 AM

I am incredibly concerned about the allowing of fracking in this country. There have been instances where fracking has led to contamination of ground water, render the water undrinkable. There have been occasions abroad where water can now catch on fire due to the gas etc that has contaminated the water. Water is our most precious resource. You can not guarantee that this will not occur and if it does, the damage can not be reversed. Fracking should be banned to protect our precious life sustaining water tables. Thank you. Lisa Batten

Lisa batten
****
WA 6036

Batterbury, Graeme – Thursday, 11 August 2022 – 17:43:05

Subject	Don't Frack the NT!!
From	Graeme Batterbury
Sent	8/11/2022 5:43:05 PM

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Fracking is destructive to the environment and the residue gases produced would destroy any chance of climate carbon mitigation targets being met!

This is the last chance to secure climate safety to levels somewhere aligned with the Paris Agreement.

Don't frack the NT .... Don't frack anywhere. Gas is a highly polluting fossil fuel and no new mines are acceptable.

Graeme Batterbury
****
NSW 2480

Bauer, Ulrike – Sunday, 14 August 2022 – 20:08:05

Subject	Please do not go ahead with the fracking plans that Origin has proposed
From	Ulrike Bauer
Sent	8/14/2022 8:08:05 PM

Dear NT government,

My name is Dr Uli Bauer, and I have been living in Australia for nearly 20 years. When I first came here from Germany, I was pretty unimpressed by the low environmental standards that Australia had, regarding recycling, pollution and, most importantly, fossil fuels and climate change.

Australia has come a very long way though, and I am now proud of the country I live in!

However, the plans that Origins has proposed about their "exploratory" fracking wells on the Amungee Mungee pastoral station are not in line with how Australia is currently tracking.

They will require an exorbitant amount of water for their fracking and drilling, which is just not available under current conditions. In addition to that, they have not got any plans of how to deal with the wastewater they produce, other than "trucking it interstate". But then what?

The amount of greenhouse gases equates to more than half a million tons of scope 1 emissions, which will just blast into the atmosphere and contribute to climate change, something that most Australians are concerned about and the Australian government is finally working on reducing. Granting this proposal to Origin would be like backtracking on Australia's goals.

And lastly, this affects the Traditional Owners of the land. This is, just like climate change, a subject that Australia is finally working on improving, and going ahead with the fracking would be a substantial setback to the people of the land.

Please listen to the people, Traditional Owners as well as new residents, and reject the appalling fracking plans that Origin has. Please show that you do not give in to big corporations, but are happy to protect the country and the environment.

Thank you very much!
Uli

Ulrike Bauer
****
VIC 3228

Baumann, Hetti – Saturday, 13 August 2022 – 11:37:18

Subject	A plea to stop Origin's Fracking plans - make the right choice for our future
From	Hetti Baumann
Sent	8/13/2022 11:37:18 AM

Attn: Northern Territory Department of Environment, Parks and Water Security

To whom it may concern,

My name is Hetti, I grew up in Queensland and am currently based in Victoria, and to be honest I am pretty devastated that it's necessary for the community to even need to write to express how reckless Origin's plans are and the need for the Northern Territory government to reject them. Recently I had to pause my post graduate studies in Climate Change Adaptation because the bare facts about the science were so chilling I needed to pause for my own mental health.

The science is explicitly clear about how dangerously far we've overshot the limits of what we can continue to take out of the ground and burn. We all know what this means for the natural systems that humans rely on for survival. We know that we are at crunch time and the decision that one government can make, impacts everyone.

Origin's EMT does not address the full climate impacts, they haven't implemented all the recommendations from the Pepper Inquiry, the process they're attempting to use to fast-track gas production using an "exploratory" licence, and they will be using vast amounts of precious water. We know that water, particularly in Australia, is the most precious resource of all.

All this is not even to mention the significant impact to country and Traditional Owners.

There is no amount of money, no political justification that can undo the damage if Origins plans to frack the Northern Territory go ahead.

I understand that change is hard, but it is coming for us whether or not we want it via the means of climate change. Even if every plea based on the ongoing stability and safety of human life doesn't sway decision makers, please understand that all the economic projections also demonstrate that the sooner the transition from gas & coal happens through government intervention and planning, the cheaper and more orderly that transition will be.

I hope for the sake of all of us, this who make the decisions on this understand that it is time for change.

Please reject Origin's EMT.

Kind Regards,
Hetti Baumann

Hetti Baumann
****
VIC 3184

Baxter, Andrew – Saturday, 13 August 2022 – 06:53:20

Subject	Stop Origin's fracking plans.
From	Andrew Baxter
Sent	8/13/2022 6:53:20 AM

Origin must stop it's fracking intentions in the Northern Territory.

Andrew Baxter
****
VIC 3015

Bayes, Elaine – Friday, 12 August 2022 – 13:54:45

Subject	Please stop origins fracking plans
From	Elaine Bayes
Sent	8/12/2022 1:54:45 PM

Please prevent origin from fracking. Stop an impact that will last well beyond your children and your childrens childten. Make them proud of your achievements in preventing short term gain for life g term losses

Elaine Bayes
****
VIC 3451

Bayles, Michael – Thursday, 11 August 2022 – 16:19:46

Subject	Stop Origins Fracking Plans
From	Michael Bayles
Sent	8/11/2022 4:19:46 PM

I understand Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

Bay approving these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

Not only that these fracking plans will contribute to global warming and unpredictable weather events.

I strongly urge you to reject these reckless fracking plans

Yours sincerely
Michael Bayles
54 Walana Crescent
KOORINGAL NSW 2650

Michael Bayles
****
NSW 2650

Bayliss, Angela – Saturday, 13 August 2022 – 12:34:25

Subject	STOP FRACKING IN THE NOTHERN TERRITORY
From	Angela Bayliss
Sent	8/13/2022 12:34:25 PM

Dear All those concerned in the NT Government,
Trust you are open to listening to the voice of the Australian people??
If you allow Origin to go ahead with their plans for further fracking, you have on your heads, the destroying of country, people's livelihood, Indigenous cultures, but worst of all adding to CLIMATE DESTROYING. You may not be around to see the final results, but the MOMENT IS NOW, if climate change is to begin. It is not too late to stop them. Please, please for the sake of humanity and the world, sure we are only a speck in it, but as we all know every grain of sand, makes a beach. (Meaning if everyone works together for good of our world and for the people in it.)
Thank you for reading petitions in order to assist your reflection on this issue....what is sent... trust you did, if not ?? We have been given many gifts and one is to care for our world...and to listening to the VOICE of the Australian people. May the spirit of good inspire you.
Sincerely
Angela Bayliss.

Angela Bayliss
****
VIC 3128

Bayliss, Nick – Saturday, 13 August 2022 – 14:16:04

Subject	Fracking well
From	Nick Bayliss
Sent	8/13/2022 2:16:04 PM

Our planet is burning and you want to open fracking wells while we also have a water shortage how disgusting of a human being do you have to be to ok a project like that

nick bayliss
****
VIC 3138

Beard, Malcolm – Friday, 12 August 2022 – 09:50:18

Subject	Stop Fracking in Australia
From	Malcolm Beard
Sent	8/12/2022 9:50:18 AM

Sir I am writing this submission to protest at the plans to build fracking wells anywhere in Australia. Australia has vast renewable energy resources if we choose to use them, strong winds, strong waves, intense sunlight can all be used to produce power, we do not need to continue using non renewable fossil fuels, such as gas produced by fracking.
Yours Malcolm Beard

Malcolm Beard
****
VIC 3040

Beatton, Kay – Sunday, 14 August 2022 – 08:00:14

Subject	Stop Origin's Fracking Plans
From	Kay Beatton
Sent	8/14/2022 8:00:14 AM

Listen to the traditional owners. Do not allow them to destroy our country, spoil our water and make climate change worse

Kay Beatton

Kay Beatton
****
NSW 2502

Becconsall, Karen – Friday, 12 August 2022 – 15:45:18

Subject	Stop origins fracking plans
From	Karen Becconsall
Sent	8/12/2022 3:45:18 PM

Nth Territory Parks and Wildlife,
The future of climate change is in your hands with Origins plans to frack in the NT. Not only does the plan seriously damage the environment but it is against the traditional owners rejection..Where is your moral and ethical values?.with the greed of corporations that are destroying this sacred planet or with the wellbeing of the people occupying this space?Surely given the recent election you can see the opinion and values of the Australian people and the world..Surely your own values are aligned with protecting the environment and having the courage to do what is right and not based around corrupt politics.Please help save this area and the people from further destruction,
Sincerly Karen Becconsall

Karen Becconsall
****
NSW 2485

Becerra, Flor – Sunday, 14 August 2022 – 06:03:56

Subject	Stop origin frucking plans
From	Flor Becerra
Sent	8/14/2022 6:03:56 AM

To the Northern Department of Environment, Parks and Water Security
This is to strongly support the Traditional Owners in their demands to stop Origin plans to open twelve new fracking drills in the Northern Territory-wells which threaten water, cultural heritage, and our climate. If approved the the Northern Territory Government would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
I request that you accept and consciously consider my submission
Flor Becerra

Flor Becerra
****
NSW 2066

Becher, Wendy – Friday, 12 August 2022 – 12:02:30

Subject	STOP THE FRACKING DRILLING!
From	Wendy Becher
Sent	8/12/2022 12:02:30 PM

I'M 78 YEARS OLD AND DESPAIR OF THE DESTRUCTION OF THIS COUNTRY.
I can't use better words than the ones I quote here...

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola
---
And destruction of this beautiful land, ours by default, goes on and on, making money for the selfish rich.
Do they care that animal habitats are destroyed daily?
I stand with the Indigenous Owners of their land -
WE ARE SICK OF MINERS.
WE ARE SICK OF POWER COMPANIES.
LEAVE THE BLOODY LAND ALONE!!!!!

Wendy Becher
****
NSW 2780

Beck, Margie – Thursday, 11 August 2022 – 15:17:53

Subject	Stop Origin's fracking plans
From	Margie Beck
Sent	8/11/2022 3:17:53 PM

I am submitting this petition as a concerned citizen of Australia. While not a resident of Northern Territory, I have read much about the results of fracking on the environment and the lives of the people who are living in areas where fracking has occurred in USA.

I find it unbelievable that Origin would even attempt to destroy land, country and water supply, knowing that the result would be horrifying here in Australia.

I urge the government to reject the proposals put forward by Origin, in favour of protecting the land and the first nations people who have been able to live without damaging the environment for thousands of years. Listen to their voice! For the sake of the future that we will leave to our children.

Margie Beck
****
NSW 2095

Beek, Petra – Friday, 12 August 2022 – 15:53:21

Subject	Stop Origin's Fracking
From	Petra Van Beek
Sent	8/12/2022 3:53:21 PM

To the NT Dept of Environment, Parks and Water Security

Hello, my name is Petra and I'm an everyday Australian.

I am deeply concerned about the damage that fracking does to Australia's water ways, soil, and environment generally.

All Australian people need and deserve clean and green air, water and soil, for our health and our farming. Our native flora and fauna also deserve a clean environment.

Additionally, we need to acknowledge and respect the traditional owners of this country and their cultural heritage.

I am no economist or scientist, but blind Freddy can see that the mining companies are only in it for the money and only give lip service to protecting our environment. History has shown this time and time again. Past experience has also shown how incredibly damaging fracking is to our land.

Please reject Origin's EMP. Please protect our environment. There are other ways to generate clean energy that would be far more beneficial to the NT and Australia.

Thank you
Petra

Petra Van Beek
****
QLD 4570

Begg, Julie – Sunday, 14 August 2022 – 11:46:55

Subject	No Fracking in the Northern Territory, Origen
From	Julie Begg
Sent	8/14/2022 11:46:55 AM

My name is Julia Begg. I am 81 years old and deeply concerned about the possibility of 12 fracking wells opening up on the lands of the Traditional Owners in the Norther Territory.

Here are my reasons:
Fracking uses and pollutes ground water and damages Country.
These are the lands of the traditional owners and mining infrastructure interferes with their cultural heritage and practices.
If these mines are allowed to go ahead it sets a precedent for more fracking to be given the green light, which will produce more carbon emissions and contribute to global heating, which endangers all life on the planet.
Fracking is not the answer to our energy crisis. Renewables such as wind and solar are the way forward with plenty of money to be made and a clean source of energy that will not impact our climate.
I think about the future for my children and grand children and the dangers of a warming climate for our biosphere. We must protect our planet at all costs.
Please, Origen Energy, NO FRACKING!

Julia Begg

Julie Begg
****
VIC 3450

Belcher, Chris – Friday, 12 August 2022 – 15:44:44

Subject	Stop Origin's fracking plans!
From	Chris Belcher
Sent	8/12/2022 3:44:44 PM

Fracking on indigenous land without the traditional owners consent is totally unacceptable and displays systemic racism.

No fracking on traditional land should be approved without comprehensive agreement - not cherry-picking members of a community and effectively bribing them to agree.

It also raises the question of ignoring climate change by opening new gas wells, which has been clearly stated by the climate experts as being unacceptable if we are to limit warming to 2 degrees Celsius.

Fracking is also likely to have a detrimental impact on water, which result in long term changes to the country.

I urge you not to approve Origin's plans, as Australia is currently the largest, or second largest exporter of gas in the world - we don't need more gas, we just need a proprtion reserved for domestic use. We also don't need a fossil fuel company ignoring the wishes of the traditional owners just to increase their profits.

Regards

Dr. Chris Belcher

Chris Belcher
****
VIC 3270

Bell, Adrian – Sunday, 14 August 2022 – 15:20:52

Subject	Prevent Origin and other from fracking in any format.
From	Adrian Bell
Sent	8/14/2022 3:20:52 PM

Australia cannot afford to allow further fracking, especially in existing regions which suffer regular drought conditions.
Short term profits for one or two foreign owned firms can't justify this irresponsibility. As it is the company involved probably doesn't pay tax. So Australia and our people lose out in every way - ecologically, economically and financially.
This is a no brainer. I am 81 years old and have seen enough rip- offs and damaging money spinning exercises in my lifetime - all to the nation's detriment. AB

Adrian Bell
****
NSW 2251

Bell, Claire – Sunday, 14 August 2022 – 12:33:10

Subject	Stop Origin fracking in the NT
From	Claire Bell
Sent	8/14/2022 12:33:10 PM

Dear Sir/Madam,
I am distraught to hear that Origin is already fracking in a number of locations before approvals have been given.

Fracking is not a safe activity in a water-sensitive environment. Regardless of what others want, surely the Aboriginal nations who depend most on that water should have the primary say. They have been saying, 'No' to fracking for years. Please listen to them.

If fracking and gas extraction go ahead, the damage will be irremediable. Please stop this now for the sake of the future, for the environment and the people who live there.

Yours sincerely,
Claire Bell

Claire Bell
****
SA 5051

Bell, Frances – Sunday, 14 August 2022 – 16:31:01

Subject	Call a halt to Origin's fracking
From	Frances Bell
Sent	8/14/2022 4:31:01 PM

There's so much to be concerned about Origin's plans, it's hard to know where to start.

The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to.

So it's simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Frances Bell
****
WA 6112

Bell, Gail – Monday, 15 August 2022 – 15:01:31

Subject	Cease and desist with fracking in the Northern Territory
From	Gail Bell
Sent	8/15/2022 3:01:31 PM

To whoever has a brain in their heads, I write this message of desperation to demand that fracking in the Northern Territory does not proceed. I have friends who are constantly active in ATTEMPTING to put an end to this hideous practice in Queensland where fracking has destroyed peoples lives and livelihoods. Children unable to drink the water,unable to take a bath and gas escaping into the water table and atmosphere. When will someone grow a brain and put an end to foreign owned Halliburton et al stealing and destroying our magnificent country.

Gail Bell
****
SA 5275

Bell, Stuart – Thursday, 11 August 2022 – 16:55:15

Subject	Fracking proposed by Origin
From	Stuart Bell
Sent	8/11/2022 4:55:15 PM

To the Northern dept of Enviroment and Water Security. Australia is well placed to generate energy from renewables and solar and this is the only sustainable way forward to preserve the enviroment for our grandchildren and their children. Fracking is damaging to the earths substrate and is promoting the use of fossil fuels when we should be eliminating them.

Stuart Bell
****
NSW 2480

Bellew, Pete – Thursday, 11 August 2022 – 18:37:37

Subject	NT Government Submission against Fracking by Origin
From	Pete Bellew
Sent	8/11/2022 6:37:37 PM

To Decision Makers

I am absolutely appalled that the NT Government is considering approving Fracking Wells. Public taxpayer funds have been used to line the pockets of the gas companies in the NT promoting the filthy CSG fracking industry.

It is obscene that this industry is allowed to exist in Australia.

Their emissions have never been seriously monitored as Climate Change contributions.

They do not have the support or permission of the traditional landowners.

They destroy the land, water, air and the communities in which they operate.
This is NOT in the public interest.

Indigenous communities need investment in health, education, housing, and the right to say NO to insidious, corrupt handouts to LNP donors.

Thank you
Pete Bellew
Lismore NSW 2480

Pete Bellew
****
NSW 2480

Bellew, Steve – Saturday, 13 August 2022 – 14:39:14

Subject	NT Fracking
From	Steve Bellew
Sent	8/13/2022 2:39:14 PM

It is simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Steve Bellew
****
SA 5112

Benassi, Sergio – Sunday, 14 August 2022 – 06:45:07

Subject	STOP ORIGIN and OTHER Fracking miners!
From	Sergio Benassi
Sent	8/14/2022 6:45:07 AM

Australia produces more than enough GAS. We should be closing mines instead of opening more fracking an extremely dangerous method of extracting gas from our pristine and essential water reserves.

Sergio Benassi
****
ACT 2603

Bennett, Carm – Thursday, 11 August 2022 – 14:50:27

Subject	Stop Origin's Fracking Plans
From	Carm Bennett
Sent	8/11/2022 2:50:27 PM

To NT Dept of Environment
I write to protest Origin's plan for 12 new fracking wells in the NT. This plants are bad for the environment and should not be approved.

Carm Bennett
****
NSW 2295

Bennett, Christine – Saturday, 13 August 2022 – 11:04:09

Subject	REJECT ORIGIN'S PROPOSAL - NO FRACKING ON AMUNGEE MUNGEE!
From	Christine Bennett
Sent	8/13/2022 11:04:09 AM

Like most Australian constituents, I am concerned about the increasing risks of climate change. I am also strongly opposed to Origin's plans for fracking on pastoral station, Amungee Mungee, and the proposed extraction of water from wells on the Gum Ridge Formation in N.T. This proposal will use vastly excessive amounts of water and it will contaminate water with carcinogenic pollutants. Further, there is no viable plan for storing and removal of this toxic water. Half a million tonnes of greenhouse gas emissions will be released, polluting the air and impacting on climate change. Already, Origin and other mining concerns are devastating our climate due to lack of Government restrictions on emissions and toxic environmental pollutants contaminating air, water and soil. Traditional Owners should not be reduced to invisibility. Governments MUST be held to account for the destruction caused to cultural heritage and country by mining corporations.

Christine Bennett
****
QLD 4560

Bennett, Gabriele – Thursday, 11 August 2022 – 14:37:43

Subject	Origin energy plans in NT - fracking
From	Gabriele Bennett
Sent	8/11/2022 2:37:43 PM

Dear Sir/Madam,
It is imperative that Origin Energy's fracking plans in the NT are stopped immediately.
I call on you to prevent their plans, discharging your duties in good faith, to protect our already highly threatened environment and out of respect for our First Nations people.
Yours Faithfully,
Gabriele Cannon

Gabriele Bennett
****
VIC 3127

Bennett, George – Sunday, 14 August 2022 – 17:29:21

Subject	georgebennett1176@gmail.com
From	George Bennett
Sent	8/14/2022 5:29:21 PM

Fracking is a technique with unpredictable consequences. Just ask the farmers of the Darling Downs. Country is land, it is living things, vegetation, the air the spirit of place. Don't destroy these things that are the source of the wellbeing of us all.

George Bennett
****
VIC 3192

Bennett, Helen – Friday, 12 August 2022 – 11:05:11

Subject	STOP ORIGINS FRACKING PLANS
From	Helen Bennett
Sent	8/12/2022 11:05:11 AM

ORIGIN HAS ABSOLUTELY NO RIGHT TO DESTROY OUR LAND, OUR WILDLIFE, OUR WATER, OUR CLIMATE.

SURELY NO GOVERNMENT WLD APPROVE SUCH A HIDEOUS PLAN !!!

helen bennett
****
VIC 3182

Berg, Audrey – Sunday, 14 August 2022 – 10:15:56

Subject	Stop all fracking
From	Audrey Van Den Berg
Sent	8/14/2022 10:15:56 AM

Northern Territory Parks, Environment and Water Security

STOP ALL FRACKING

It is imperative that any company wanting to use fracking to exude gasses from land in Australia and especially any land in the Northern Territory be denied .
Scientific evidence and on the spot land owners can verify the huge problem that fracking has caused on their properties. Water has been so badly polluted that it is unusable for humans, stock, flora and fauna including bird life .
WATER IS OUR LIFE BLOOD
You as the leader in WATER SECURITY must not allow fracking. Do not believe any promises or contracts of multi national companies. It has been proved time and time again that these companies will try anything and everything to get what they want then abuse the promises and contracts. NEVER, NEVER believe these companies.
This is our land, this is OUR back yard, YOUR land. DO NOT GIVE IT UP

KEEP FRACKING OUT

Sincerely
Audrey van den Berg

Audrey van den Berg
****
VIC 3888

Berg, Dianne – Friday, 12 August 2022 – 15:05:34

Subject	STOP ORIGIN'S FRACKING PROJECTS
From	Dianne Berg
Sent	8/12/2022 3:05:34 PM

Please listen to the community and Traditional Owners in the NT and STOP ORIGIN from embarking on this completely illegal and unethical fracking project. This MUST NOT HAPPEN. Please reject Origin's EMP

Regards,

Dianne Berg

Dianne Berg
****
VIC 3130

Bergman, Jillian – Thursday, 11 August 2022 – 16:21:03

Subject	Stop Origin's fracking plans
From	Jillian Bergman
Sent	8/11/2022 4:21:03 PM

ATTENTION
Northern Territory Department Environment, Parks and Water Security

To whom it may concern

Please do not allow fracking to destroy our environment in the Northern Territory. Or anywhere else. Origin must not be allowed to do this to our country.

We are living in a fragile world which environmentally has been disrespected and allowed to decline, taking native animals, fresh waterways and healthy farming land with it. Particularly in Australia. And for what? A handful of greedy few who do not pay taxes here and leave us with a barren wasteland when they leave.
Global warming has been exacerbated by humans. In the last 250 years, Australian mining of fossil fuels has been the perpetrator of a rapid decline in a once healthy environment, which in turn has affected the biosphere causing an unbalance in Nature like never seen before in our life time.
Bushfires, floods and disease are near uncontrollable.

Please do not allow Origin to go ahead with fracking our pristine NT environment. One of the last Wildernesses left in this world.

This is unthinkable when we have already gone over the tipping point with climate change.
Indigenous voices must be heard in relation to this impending daster if you allow it to go ahead.
Kind regards
Jillian Bergman

Jillian bergman
****
QLD 4564

Berisha, Jules – Sunday, 14 August 2022 – 11:19:36

Subject	Stop Fracking
From	Jules Berisha
Sent	8/14/2022 11:19:36 AM

To the NT government,

World cultural heritage sites are no place to go fracking! Stay away from poisoning precious waterways!

Why won't you admit the reality of your governments destruction now and save the few special places that we have left for the future generations?

Your recklessness with our only source of life is beyond me!

You are all in a "special job" and so-called professional - don't you realise the responsibilities you have been given and the chance to leave a legacy for the people, not the corporations?

Have a heart!

Jules

Jules Berisha
****
VIC 3936

Bettison, Bridget – Friday, 12 August 2022 – 14:59:57

Subject	Stop Origins Fracking Plans
From	Bridget Bettison
Sent	8/12/2022 2:59:57 PM

Dear NT Dept of Environment Water and Parks
I am very concerned corporations can have this chance to exploit gas using a process called fracking. It has been used in the UK and poisoned the ground water never mind the destruction of the Earths surface. They have regretted their approval for corporation's to use fracking for gas which they then sell and make their own profits. There is no regard to the environment or community when they have made their profits. All the lip service sounds good but like other corporations money first then do their best to delay or sell off the company parts to avoid the clean up. Leave our beautiful outback free from corporations greed it is the will of the people and community they don't fracking full stop. It is only the corporation that makes money lip service is cheap and we are left with the unfit ground water and destroyed environment.
The little slip to let one in will lead to more corporations especially if money and profits are there for them!
Don't let any fracking occur keep the wishes of all people and communities be heard and acknowledged money is not everything.
I have seen the results if mining in the Pilbara WA having lived there for some time, lip service to tick boxes has left an on going mark on the land and it will be there a long time due to the cost to rehabilitate and no one will see it.
Keep our land free from corporation greed, respect the peoples voice we don't want fracking here.
Thank you for the time to read this I like many want our land kept for its people not raped by corporations greed. They only want their profits, we will be left with the mess and polluted ground water in a dry country that relies on ground water for man and nature!

Regards Bridget Bettison

Bridget Bettison
****
WA 6027

Beurden, Eric – Saturday, 13 August 2022 – 10:31:05

Subject	Origin fracking? - Its climate and cultural vandalism
From	Eric Van Beurden
Sent	8/13/2022 10:31:05 AM

Dear executives of NT Environment and Water,
I have been a professional biologist and epidemiologist over a 50 year working career.

As a health researcher I spent time planning and advising on strategies to help close the health and life expectancy gap of aboriginal Australians. In that capacity I became familiar with the research evidence of the very direct link between past government-backed fragmentation of ancestral links with their ancestral land and water and the resultant increase in disease and drop in clinical health of the indigenous people so effected. That evidence on the Social Determinants of Health now informs government decision making in many jurisdictions of Australia and internationally on issues likely to affect cultural links of indigenous peoples with their ancestral land and waters.

In this regard I am totally gobsmacked that your department is still oblivious to these links, or worse, that it would choose to totally ignore them as they relate to Origin's plans to frack such lands.

Furthermore, as a research biologist I have followed the increasingly rapid approach of systemic and cascading collapse of the environment and particularly the very systems on which our survival depends. One would have to be totally blind not to now see that we are transgressing crucial tipping points on a massive scale at a frightening rate.
While fossil feul corporations are increasingly investing in smokescreens and lobbying to protect their industry, the evidence is now incontrovertible that their industry is fueling this vandalism.

For the NT government to continue at this eleventh hour of human survival, to bow to such pressure is irresponsible in the extreme.

On both these counts I implore you to wake up to yourselves and stop killing the future, not just for your own indigenous people but for all our children and grandchildren.

If you care at all about these matters, if you really are serving for the public good then please take urgent measures to prevent Origin from fracking in your territory.

Eric Van Beurden
****
NSW 2480

Biffen, Christine – Saturday, 13 August 2022 – 15:08:16

Subject	Stop and listen..... For Gods Sake
From	Christine Biffen
Sent	8/13/2022 3:08:16 PM

I am angered once again to hear of the continued use of fracking drills and more importantly the lack of understanding for the knowledge of the Traditional Owners re the effects it will have on vital water supplies....cultural heritage and our climate.I call on the Northern Territory Government to reject Origins plans and show some leadership as Australia struggles already with climate change.
Yours sincerely, Christine Biffen

Christine Biffen
****
VIC 3931

Biggar, Maree – Friday, 12 August 2022 – 15:07:07

Subject	Stop fracking plans: Kakadu vs Coober Pedy
From	Maree Biggar
Sent	8/12/2022 3:07:07 PM

Hi there.
I'm not a local but so invested in NT. I've seen but a small bit of NT 'cos it's so big but I love it. Being from Melbourne, yes, it's different: the wide open spaces, unique flora, the fragility of the soils, lack of water. It's the the resourcefulness of the locals to make it all work that I admire. I'm a grandma now and I want my grandchild to see the NT as I do. Somewhere special but fragile. It needs your vision to progress without destruction. I want a Kakadu not a Coober Pedy moonscape.

Fracking seems a good idea now but will your grandchildren thank you?

I worry that the Fracking process will not only destroy the top soils, creating a Coober Pedy landscape (ugly but without the glamour of opal mining) but fracking will also create instability below ground with the use of high pressure pumping of chemicals and water to get the gas out. And at the same time, accessing the limited water resources that exist with the potential to pollute that water.

Exploring sounds like a good idea but if you allow enough holes to be dug and Origin is but one of many, you'll have all these well cap structures above the ground. You may as well accept you'll be turning the natural beauty of the landscape from fascinating and intriguing which means special for us tourists, into a Coober Pedy moonscape. Mining for opals doesn't result in gas blowouts. Ref: https://www.bbc.com/news/science-environment-39032748.

At least in Coober Pedy, it's the locals digging up their land. They live there because that's what they do. But you'll be letting strangers onto your constituents land. You're telling them that they can continue on as before even though the frackers will be coming, disrupting their lives and finally going, leaving behind their mess with no liability to clean it up. You're allowing Origin and all the other frackers to put holes wherever and whenever with no liability for the damage caused now or in the future because they are only "exploring".

In the long term, agriculture and tourism will provide more benefit to NT than the mining companies. They are in it for the long term. They are invested in maintaining the environment which grows investment. But it's not just the financial benefits. It's also the development of strong social structures. Your grandchildren will thank you.

Be part of the future. I implore the NT Government to stop fracking.

Thank you for taking the time to read my submission.

Maree Biggar
****
VIC 3187

Biggins, Anne – Thursday, 11 August 2022 – 14:58:32

Subject	Fracking by Origin
From	Anne Biggins
Sent	8/11/2022 2:58:32 PM

Origins plans are unlawful and will be environmentally unsound as well as treating the tradition owners with disrespect They should be stopped immediately.

anne Biggins
****
SA 5086

Biggs, John – Thursday, 11 August 2022 – 15:52:28

Subject	Origin's fracking plans -- no way!!!
From	John Biggs
Sent	8/11/2022 3:52:28 PM

I'm a Tasmanian but deeply worried about Origen's pals to frack in the NT. This will add tremendously to green house emissions; it will encroach upon First Nation's people's land; and send entirely the wrong message to the rest of the world about Australia's commitment to the Paris Agreement.

Please reject Origin's proposa!

John Biggs
****
TAS 7007

Bignell, Niki – Saturday, 13 August 2022 – 20:09:10

Subject	No fracking for Origin
From	Niki Bignell
Sent	8/13/2022 8:09:10 PM

To: the Northern Territory Department of Environment, Parks and Water Security.

To Whom It May Concern;

I'd like to express my deep concern at the news that your government is considering allowing any fracking whatsoever in the Carpentaria area. I have lived and worked there and fracking has no business being there. It's a highly destructive process that puts at risk, some absolutely beautiful country that is also heavily populated with a number of indigenous families. This is also completely contravening our commitment to fazing out fossil fuels as quickly as possible. I sincerely hope that the information I've been given is wrong.

Regards,

Niki Bignell

Niki Bignell
****
WA 6162

Bilney, Jon – Sunday, 14 August 2022 – 16:49:54

Subject	C
From	Jon Bilney
Sent	8/14/2022 4:49:54 PM

No fracking its not your land

Jon Bilney
****
QLD 4211

Bindoff, Helen – Sunday, 14 August 2022 – 21:57:13

Subject	Stop Origin fracking plans
From	Helen Bindoff
Sent	8/14/2022 9:57:13 PM

NT Dept of Environment,
Parks and Water Security

As you are aware Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and climate change. Traditional Owners have been staunchly defending their country against them for years. Yet I understand that Origin is failing to listen to Traditional Owners and the communities around the country united behind them. Origin are fervent in bypassing proper processes, all without consent.

I appeal to you, the NT Government, not to approve these plans - please do not pave the way for Origin to frack which is known to contribute to destroying country, water and stable climate. You could also set a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

I urge you to stand strong against Origins deceits. Too many citizens are already suffering relentless climatic weather events. Make a strong stand against these fracking plans.

Yours sincerely,
Helen Bindoff.

Helen Bindoff
****
TAS 7250

Binfield, Alisin – Saturday, 13 August 2022 – 10:52:04

Subject	STOP FRACKING NT
From	Alisin Binfield
Sent	8/13/2022 10:52:04 AM

I am strongly against fracking on sensitive land with water issues. We are such a dry country to increase fracking without absolute assurety that the water table won't be poisoned is madness.

Alisin Binfield
****
NSW 2257

Birch, Robert – Saturday, 13 August 2022 – 15:09:40

Subject	No Origin fracking in the N T.
From	Robert Birch
Sent	8/13/2022 3:09:40 PM

Please do not allow Origin Energy to desecrate and despoil this beautiful landscape by fracking. It is unconscionable that this might go ahead over the objections of the traditional owners of the land and of all decent minded and responsible Australians.

Robert Birch
****
NSW 2428

Bird, Ian – Friday, 12 August 2022 – 13:42:52

Subject	No Fracking in NT
From	Ian Bird
Sent	8/12/2022 1:42:52 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Chief Minister
NT Government

The plan by Origin to open 12 new fracking area in the NT is outrageous. This fracking will negatively impact cultural heritage, water quality and global climate.

Traditional Owners have stood against this treat from Origin for many years. Decision makers in the NT Government must now take note and decidedly reject Origin's destructive fracking plans.

Fracked gas is not required. Rejigging of controversial gas export activities will readily provide for East Coast gas needs.

Please reject fracking in the NT.

Ian Bird
****
VIC 3053

Bird, Travis – Saturday, 13 August 2022 – 05:43:09

Subject	Origin Fracking Drills
From	Travis Bird
Sent	8/13/2022 5:43:09 AM

To: Northern Territory Department of Environment, Parks and Water Security.

I write in support of the campaign to prevent intended fracking projects by Origin Energy.

This exploratory method is reckless of the destruction of the viability of the land for insignificant returns.

Origin will obtain, at best, some short-term profit; the Territory and Australia has nothing to gain from it and much to lose.

Artesian water is severely and irreparably polluted by fracking. This will be a permanent legacy and a hindrance to human life.

Please make 'Water Protection' the highest priority in your consideration. Water is essential to the life of the population. Protecting it is protecting Australian people.

Travis Bird
****
WA 6050

Birks, Andrew – Thursday, 11 August 2022 – 19:41:49

Subject	Please stop Origin's fracking plans in NT.
From	Andrew Birks
Sent	8/11/2022 7:41:49 PM

It is now time that the NT government takes into account that polluting the water table and the aquifers in the NT which access the artesian basin threatens poisoning many Australians not in the Northern Territory.
Please ensure that Origin is not approved to develop more fracking wells anywhere.
Andrew Birks
Wagga Wagga

Andrew Birks
****
NSW 2650

Bishop, Marc – Saturday, 13 August 2022 – 16:37:29

Subject	fracking is not a viable business
From	Marc Bishop
Sent	8/13/2022 4:37:29 PM

please stop fracking
it can destroy the artesian water basin why put that at risk?

Marc Bishop
****
NSW 2750

Bishop, Rebecca – Thursday, 11 August 2022 – 14:38:34

Subject	rebeccab9@gmail.com
From	Rebecca Bishop
Sent	8/11/2022 2:38:34 PM

Hello to the folks in the NT Dept of Environment, Parks and Water Security,
I can hardly believe you're contemplating approving the application by Origin Energy for 12 new exploratory fracking wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.
I am a sixth generation European Aussie, and I feel sick thinking about this. Firstly, because the Traditional Owners oppose it, and secondly for the future of our kids and grandkids.
In terms of accountability and accountability, why is this being considered outside the framework of the 2018 Pepper Inquiry? For example, I understand Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA), as recommended by the Pepper Inquiry.
I won't recap any of the scientific or economic information that GetUp has assembled, as I think you're aware of it.
Instead, I'll plead with you not to approve this fracking.
It runs counter to any notion of reconciliation with the First Nations peoples; they do not support the fracking because of the risks to water, country and culture.
In summary, please reject Origin's Environment Management Plan for the 12 new exploratory fracking wells.
Yours sincerely,
Rebecca Bishop

Rebecca Bishop
****
NSW 2040

Bishop, Susan – Saturday, 13 August 2022 – 19:04:06

Subject	Please stop fracking the homelands
From	Susan Bishop
Sent	8/13/2022 7:04:06 PM

If fracking poisons the water of the remote Aboriginal communities they will be left without water. Can you guarantee this will not not happen? Over 80% of remote communities have unsuitable drinking water. Are you aiming for 100%? What is the intent for these people in these communities? Where is the consideration?

Susan Bishop
****
QLD 4871

Black, Judith – Thursday, 11 August 2022 – 20:05:04

Subject	Stop Origin's fracking plans
From	Judith Black
Sent	8/11/2022 8:05:04 PM

NT Dept of Environment Water & Parks

I lived in the NT from 1970 to 1982. With the Toyota Landcruiser Club and my positions of Acting Secretary of the Town Planning Board & Secretary of NT Road Safety Council, I travelled from Rabbit's Flat to Maningrida & Nhulunbuy & South to Alice Springs. I am godmother to a highly respected Police Sargent (dcd) in Alice Springs.

I am horrified when I here of big business seeking to a) frack & b) so many places in the NT. The untold potential damage that could be done to cultural sites & waterways, I shudder to think. My father was Senior Agronomist in the Department and taught his family to treasure the precious gifts of nature in the NT.That's why I'm writing ?? to seek your support to decide against these proposals.
While I'm glad the government is my way, a premise that I fought for & stood in 1978 (lost).
I adjure the government to refuse Origin's applications.

Yours sincerely

Judith Black

Judith Black
****
SA 5073

Black, Steph – Sunday, 14 August 2022 – 13:05:44

Subject	Deny Origins NT Fracking Application
From	Steph Black
Sent	8/14/2022 1:05:44 PM

To the Northern Territory Department of Environment Parks and Water Security,

Please do not approve Origin to frack in the NT.

The value of the Indigenous Australian Heritage sites are the oldest and therefore most significant in the world, they have already been nearly completely decimated due to colonisation and are rapidly being destroyed nation wide. This makes it all the more important to preserve for future generations, for recognition and for reconciliation.
The impacts on the climate may have devastating effects, origin are requiring 430 million litres of water to drill and frack the twelve wells in their proposal, producing 90 million litres of waste water with no waste management plan.
They also haven't implemented all the recommendations from the crucial Pepper Inquiry.
As the NT Department of environment and natural resources released an environmental reform in September 2019 stating that there is a need for reform due to a lack of transparency in the current environment system and legislation which approves conditions in which there is no protection for the environment and agencies in the sector do not act with appropriate rigour to manage environmental impacts, the system is currently not prepared approve such a potentially environmentally and culturally detrimental application.
I urge you to deny the application on these grounds.
Regards,
Stephanie Black

Steph Black
****
VIC 3081

Blackburn, Karen – Saturday, 13 August 2022 – 16:21:07

Subject	Stop origin's fracking wells
From	Karen Blackburn
Sent	8/13/2022 4:21:07 PM

Dear minister
Thank you for serving the community
I am writing today to express my thoughts regarding fracking in the Northern Territory and am extremely concerned about the prospect and the consequences of this process on the people land and especially the water

You'd in good faith
Karen Blackburn

karen blackburn
****
VIC 3919

Blackman, Troy – Sunday, 14 August 2022 – 08:10:01

Subject	Stop Origins fracking plans
From	Troy Blackman
Sent	8/14/2022 8:10:01 AM

To Northern Territory Environment minister,

My name is Troy, I am concerned about the fracking that appears to going ahead without following all recommendations as per your own requirements for fracking to be allowed.
Please act upon this and ensure that all requirements are being met, that the first nation people that own/live on this land have a the final decision regarding the use of our land.

This needs to be done properly we have not just ourselves to think about but future generations of Australians and the world that we really do have a duty of care too.

Regards

Troy

Troy Blackman
****
QLD 4209

Blair, Simon – Thursday, 11 August 2022 – 15:18:39

Subject	origin destruction
From	Simon Blair
Sent	8/11/2022 3:18:39 PM

great, we destroy our NT land so Origin can sell gas overseas and pay no tax. What's in for Australia?

simon blair
****
VIC 3505

Bleby, Alice – Friday, 12 August 2022 – 14:45:22

Subject	Stop Origin fracking in the NT
From	Alice Bleby
Sent	8/12/2022 2:45:22 PM

To the NT Department of Environment, Parks and Water Security,
I am a young professional who lives in country Victoria - this may seem a long way from the NT, but our whole country, indeed the whole planet, is part of an interconnected and precious ecosystem which we are all a part of, and which we all need to protect, together.
Nevertheless, I have travelled in the NT and experienced its extraordinary natural beauty, and the welcome of its people. Natural communities and human communities will be gravely threatened, if not destroyed, by fracking - a dangerous, polluting and destructive industrial activity that we do not need.
Our country, and our planet, needs to turn to renewable, non-polluting energy sources if we are to have any chance of slowing - and surviving - climate change. Permitting activities like fracking only slows this transition, as well as facilitating the destruction of unique and precious landscapes, and putting all forms of life at risk.
Origin's activities will only benefit the company and its shareholders, at immense and incalculable cost to the community.
Traditional Owners have made it clear they do not support the proposal to frack in the NT - not only is it their land, and respecting their wishes must be part of a process of redress and seeking forgiveness for the brutalities of colonisation; but we also, all, everywhere, need to learn from the wisdom that comes from thousands of years caring for this beautiful country. Once these places are destroyed, they can never be remade; once the health of our communities and our planet is compromised, we may never find a way back to health.
I ask you to refuse permission to frack in the NT, now and always; please reject Origin Energy's EMP.
Yours sincerely,
Alice Bleby

Alice Bleby
****
VIC 3181

Blemings, Rosemary – Thursday, 11 August 2022 – 15:01:59

Subject	Origin's Fracking Plans
From	Rosemary Blemings
Sent	8/11/2022 3:01:59 PM

To the Northern Territory Department of the Environment: Water and Security.

It is criminal, inhumane and ecocide to allow any company to plan for NEW FRACKING DRILLING.
The NT receives abundant sunlight for producing energy for solar electricity. Extracting more gas, using fossil fuels, is not the way of the future due to the polluting effects on the planet's climate.
Fracking involves disturbance of the water table and polluting of ground water. Water is an essential resource that cannot be used for non-essential purposes if the environment is to remain balanced into the uncertain future.

Rosemary Blemings
****
ACT 2615

Blyth, Jennifer – Thursday, 11 August 2022 – 14:42:31

Subject	Please stop Origin's fracking plans in the NT
From	Jennifer Blyth
Sent	8/11/2022 2:42:31 PM

To whom it may concern.
I understand that Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

If the NT Government approves these plans, it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

I'm very concerned about the environmental and climate impact on the land, including rapid depletion of precious underground water reserves needed in the industry.

Please consider any submissions very carefully. The future of Australia is in your hands.
Thankyou
Jenny Blyth

Jennifer Blyth
****
QLD 4570

Blyth, John – Friday, 12 August 2022 – 18:21:23

Subject	No more fracking
From	John Blyth
Sent	8/12/2022 6:21:23 PM

Dear Sirs,

In my opinion, there is no possible justification for the expansion of gas extraction.

This applies particularly when it involves land owned by indigenous people, who do not want their country and water polluted.

Just leave it in the ground.

Yours faithfully,
John Blyth

john blyth
****
NSW 2444

Blyth, Judith – Friday, 12 August 2022 – 11:57:04

Subject	Fracking Plans by Origin
From	Judith Blyth
Sent	8/12/2022 11:57:04 AM

To Northern Territory Dept 0f Environment Parks and Water Security.
I am a resident of South Australia and have cherished experiences of visiting and being in the Territory during the last 60 years.
I have enjoyed its natural beauty and am longing to be able to continue to do this and introduce it to my grandchildren and to many friends.

I am very concerned that there are plans under consideration for Fracking for oil drilling in the Territory.

Our Traditional Owners and their understanding of Country and the impacts of such work must be at the forefront of any decision in this matter.

Our Western science has issued many warnings of the impact of increased oil production, the effect of drilling and accompanying actions on the underground water as well as impacts on our climate.

I am concerned that all our state and federal governments do their utmost to reduce all actions that may impact climate pollution and worsen the many damaging weather situations we are experiencing in Australia and hear about around the world. These have their root cause in that pollution.

Regards
Judith Blyth

Judith Blyth
****
SA 5173

Boardman, Ralph – Sunday, 14 August 2022 – 17:33:34

Subject	The problem is not a lack of gas
From	Ralph Boardman
Sent	8/14/2022 5:33:34 PM

To NT Parks and Wildlife
We have enough gas and not enough wildlife.
Thank you.
RALPH BOARDMAN

Ralph Boardman
****
WA 6017

Boaz, Nicolette – Saturday, 13 August 2022 – 15:59:58

Subject	Re Fracking on Traditional land
From	Nicolette Boaz
Sent	8/13/2022 3:59:58 PM

To Whom it May Concern.
Few things upset me as much as the idea that white Australia would once again ignore Aboriginal custodians wishes. Fracking goes against all their custodianship lores. It is a danger to the pure water that has sat there for millenia. This should NOT go ahead. NT should be happy to have the tourism that such clean land brings and not kill the the goose that is laying and laying the beautiful golden egg.

Nicolette Boaz
****
NSW 2026

Boaz-Cole, Mirinda – Sunday, 14 August 2022 – 06:24:14

Subject	Urgent
From	Mirinda Boaz-Cole
Sent	8/14/2022 6:24:14 AM

Your plans for fracking wells will threaten water, cultural heritage, and our climate. We are already in a climate emergency incase you hadn't noticed & it's fact fracking will make it worse. You will be held accountable. I urge you to please reconsider.

Mirinda Boaz-cole
****
NSW 2026

Bodley, Roger – Saturday, 13 August 2022 – 16:16:24

Subject	Stop Origin's fracking plans.
From	Roger Bodley
Sent	8/13/2022 4:16:24 PM

I find it impossible to believe that in the current atmosphere of concerns about traditional owners rights and wisdom, pollution of the air and land but particularly the water table, and above all, the catastrophic prospect of climate change, the NT is still considering allowing Origin to start fracking.

Do the decision makers not have any children, let alone grandchildren or is the pocket so powerful that the future is quite expendable for those involved?

Roger Bodley

Roger Bodley
****
TAS 7325

Boettcher, Annemarie – Friday, 12 August 2022 – 14:46:07

Subject	No new fracking. This is important.
From	Annemarie Boettcher
Sent	8/12/2022 2:46:07 PM

It is incredulous, that these projects detrimental to the health of our environment are still being put on the table & on indigenous land. These people have had little impact on country for thousands of years & we wreck it within a couple of a hundred years with our continued grasping of wealth. Please consider the neg impact & put funding into more updated cleaner & less harmful projects. There are plenty available.
Thankyou
Annemarie Boettcher

annemarie boettcher
****
QLD 4740

Boezio, David – Thursday, 11 August 2022 – 15:34:34

Subject	Stop fracking!!!!
From	David Boezio
Sent	8/11/2022 3:34:34 PM

It is the most insidious way to polute and destroy a water table. It's destructive practices have been seen and felt around the world. The evidence is so obvious and blatant just look at the problems it has caused in America!
Now you want to do it to our beautiful countryside destroying aboriginal lands leaving them without drinking water let alone what It does to farming land.
Renewables are the future!!!!!

David Boezio
****
VIC 3028

Boin, Joe – Friday, 12 August 2022 – 08:16:09

Subject	Origin’s fracking must stop
From	Joe Boin
Sent	8/12/2022 8:16:09 AM

To Northern Territory Department of Environment, Parks and Water Security,

I am an Australian citizen who is concerned that fracking is a risk for my grandchildren's future. This is on two levels:
Firstly: any further use of gas, a fossil fuel, is a climate change accelerator and therefore a serious concern for our future safety.
Secondly, but no less serious: the risk to the local water quality is far from discounted. Disruption to subsurface rock layers can easily cause pollution of the water supply. On top of this, the process will involve using large amounts of the water supply. Thus the traditional owners may well be disrupted in several ways.

I therefore ask that you reject the EMP for this project, as the only real benefit is in short-term profits for Origin … and the long-term risk to the community and the world is unacceptable.

Joe Boin
****
VIC 3352

Boissett, Diane – Sunday, 14 August 2022 – 15:54:35

Subject	Stop Origin's Fracking Plans
From	Diane Boissett
Sent	8/14/2022 3:54:35 PM

To whom it may concern, Northern Territory Department of Environment, Parks and Water Security,

Our country is at the mercy of unparalleled natural disasters from fires to flooding, all credibly attributed to global warming, underpinned by the unfettered use of fossil fuels.

Why, when we are reeling from the effects of climate change are you even considering granting Origin Energy fracking licences? Why are you not listening to Traditional Owners of Country about the harm and destruction this will cause? When will you stop putting short term profits before the well-being of the people and the land that sustains us.

Please reconsider Origin Energy's submission. Our Earth's future and the people on this planet are more valuable resources than some company's profits. Please do not grant fracking licenses.

Yours faithfully,

Diane Boissett

Diane Boissett
****
NSW 2203

Boland, Maureen – Sunday, 14 August 2022 – 16:22:56

Subject	Stop Origin's Fracking plans
From	Maureen Boland
Sent	8/14/2022 4:22:56 PM

Your plans to open 12 new fracking drills in the NT which threaten water, priceless cultural heritage to the oldest continuous civilisation in history and help boost climate change.
You should be ashamed - none of you has grandchildren??
What will you say when they realise who did this?
This must be stopped immediately!!!
Maureen Boland
****

Maureen Boland
****
WA 6010

Bolders, Jan – Friday, 12 August 2022 – 18:30:28

Subject	oOrigins Fracking application must be refused
From	Jan Bolders
Sent	8/12/2022 6:30:28 PM

To the Northern Territory Department of Environment, Parks and Water Security.
This application by Origin to start fracking in the Northern Territory must not be allowed and needs to be refused.
It's is going to jeopardise the task of reaching out climate change targets. As Australians we have experienced such adverse weather conditions; flood after flood, record high temperature and fire storms doing immense damage to land, property and wildlife.
This process will also risk contamination of underground water required to sustain life.
It also totally ignored the wishes of our First Nations people who totally oppose this application to crack.
It will also impinge on the cultural heritage.
Please follow all the guide lines and refuse Origin permission to frack. The choice is simple;- look after Australians, the land and support with the battle against climate change rather than the profits of a private company.
Thank you for considering this matter.
Yours, with confidence you will do the right thing.
Jan Bolders

Jan Bolders
****
QLD 4569

Bolton, Merril – Friday, 12 August 2022 – 14:15:14

Subject	Fracking Plans
From	Merril Bolton
Sent	8/12/2022 2:15:14 PM

No more fracking - work with the local communities not big business just looking for a profit.

Merril Bolton
****
VIC 3146

Bolwell, Venetia – Sunday, 14 August 2022 – 13:22:39

Subject	venetia.bolwell@gmail.com
From	Venetia Bolwell
Sent	8/14/2022 1:22:39 PM

I am writing to express my strong opposition to the proposed expansion of exploratory fracking by Origin in the NT.
The current economic and climate crisis clearly illustrate that fossil energy companies are pushing their agendas for profit alone, despite having no social licence to do so. There will be no benefit to the NT or Australia for allowing further fracking.
Recent history and the current situation in Australia shows that any profits made by Origin will not enrich Australia in payment for its natural resources. Instead, we will all be left poorer in country, water and climate. And ordinary Australians will once again feel that our voices are never heard when big corporations want their way.
Now is the time for the NT government to pay heed to the arguments of the Traditional Owners of this land. They care for this country as they have done for thousands of years. They do not want to be left with a legacy of waste and destruction for thousands more after Origin gets its quickfire profits before the entire world bans exploitation of polluting fossil fuels. The traditional owners know that Origin and the NT government will come and go, but the negative effect of fracking on the water, country and cultural heritage will last countless lifetimes.
People, like myself, all across Australia, are hugely concerned that fracking should not proceed. I feel the NT moratorium on fracking should be re-instated. It was only lifted on the condition that all recommendations of the Pepper Inquiry be implemented to mitigate the risk to economy, environment, society and culture. Origin's EMP does not address these recommendations. It should not be approved.
Australia is watching. Origin does not have the social licence to frack the NT. The NT government must reject the EMP.
Thank you
Venetia Bolwell

Venetia Bolwell
****
SA 5223

Boman, Kerry – Sunday, 14 August 2022 – 05:52:19

Subject	clarkboman@bigpond.com
From	Kerry Boman
Sent	8/14/2022 5:52:19 AM

I am writing to request the NT Government reject Origin's bid to open new fracking wells in the Northern Territory. The catastrophic impact of climate change is happening now in Australia and the only way to stop its effects getting even worse and making our planet uninhabitable is to stop new mining like this. But even without the risks associated with climate change, fracking is environmentally disastrous. It has poisoned water and environments across the world and destroyed good farmland and communities, including here in Queensland. It mustn't be allowed to happen in the beautiful and sacred landscape of the NT. Country is life and culture for Aboriginal people and fracking threatens country. Economically, fracking will benefit Origin and the very small number of mainly men employed in the industry. Meanwhile it will ruin the NT's environment and Aboriginal culture which are key to NT's tourism industry. I was an Origin customer for decades and switched energy suppliers because of their decision to frack NT. People know the dangers of fracking, it is just not worth it to benefit one company and hurt local communities, the environment and NT's tourism industry. Please don't put Origin profits ahead of NT.

Kerry Boman
****
QLD 4101

Bonar, Rob – Saturday, 13 August 2022 – 09:50:29

Subject	Stop Origin's Fracking Plans
From	Rob Bonar
Sent	8/13/2022 9:50:29 AM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Regards,
Rob Bonar

Rob Bonar
****
NSW 2489

Boniecki, Tad – Friday, 12 August 2022 – 05:09:13

Subject	12 new fracking drills
From	Tad Boniecki
Sent	8/12/2022 5:09:13 AM

This would destroy water purity and harm our climate. Please do not approve them.

Tad Boniecki
****
NSW 2025

Bonney, Geoff – Friday, 12 August 2022 – 08:54:38

Subject	Why dont you care about Climate Change and the Community
From	Geoff Bonney
Sent	8/12/2022 8:54:38 AM

I'm a Grand Dad who has lived in the country and am deeply concerned for the future of my Grand Children due to the decimation of Country and continuing use of Fossil Fuels proposed by companies like Origin
I cant understand why RESPONSIBLE Governments are doing anything they can to bypass proper procedure and ignore people directly affected and their source of an important source of life such as water and future health and life style.
Your proposed actions will set an horrific precedent for other reckless Fracking Corporations to frack at will and DESTROY the Country , along with Water and our Climate.
I would like to ask that you Seriously consider the consequences of your actions and REJECT Origins EMP.

Geoff Bonney
****
QLD 4163

Bonwick, Mignon – Saturday, 13 August 2022 – 09:33:11

Subject	Fracking Must Be Stopped
From	Mignon Bonwick
Sent	8/13/2022 9:33:11 AM

Over the last 10 years it has become blatantly obvious that fracking is not of benefit to the people of this area and more importantly climate change.
The Government has now set a target to reduce carbon emissions in Australia and I find it hard to believe these “fracking” sites are being contemplated.

It has also been shown that Fracking requires large amounts of water and already existing fracking sites have contaminated water supplies.
Government approval is needed to do this and yet Origin has not yet completed the regulatory process needed to sell the gas. And yet I hear Origin has moved equipment in near the sites.

There was a ban on fracking until recently but the ban was lifted on the recommendation from a scientific inquiry that all these requirements be adhered to. But they ARE NOT.
What is the point of having a regulatory system if it is not observed. This was a SCIENTIFIC enquiry!
I ask you to seriously ask yourselves what is the right action to take. Does money talk more than science?

Mignon Bonwick
****
NSW 2106

Boreham, Colleen – Saturday, 13 August 2022 – 16:04:37

Subject	Stop Origin's fracking plans
From	Colleen Boreham
Sent	8/13/2022 4:04:37 PM

To NT Department of Environment, Parks and Water Security.
Please respect the Traditional Owners.
Remember the environment and water and Climate Change.
Please prevent Origin's Fracking Plans to protect the environment and listen to the Traditional Owners.
Thank you

Colleen Boreham
****
QLD 4073

Bosland, Peter – Thursday, 11 August 2022 – 14:59:31

Subject	Please STOP Origin's fracking plans
From	Peter Bosland
Sent	8/11/2022 2:59:31 PM

We simply cannot comprehensively address the CLIMATE CRISIS whilst continuing to allow the development of new fossil fuel extraction projects.

For the sake of our children, the environment and the planet as a whole we need to IMMEDIATELY CEASE all new fossil fuel extraction projects.

It is crucial that we reign-in Australia's 3 key climate criminals: AGL, Energy Australia and Origin Energy. We need to start by immediately stopping all new fossil fuel extraction projects, and demanding that the proponents of those projects instead invest their funds in renewable energy projects.

Peter Bosland
****
VIC 3126

Boswell, Mark – Friday, 12 August 2022 – 12:30:42

Subject	Reject Origin's Fracking Proposals
From	Mark Boswell
Sent	8/12/2022 12:30:42 PM

The Northern Territory Department of Environment, Parks and Water Security,
Dear Minister (and all relevant NT Ministers and NT Government staff),
I wish to implore you to urgently and seriously consider and permanently reject Origin's current fracking proposals in the Northern Territory because of the following reasons:
1. the proposals are in direct contrast with the objectives and spirit of, and hence will logistically jeopardise the recently Federally legislated National Carbon Emission Reduction targets of 43% by 2030,
2. allowing such proposals will create a highly dangerous precedent for other potential fossil fuel extraction proposals nationally and
3. the proposals(and similar others) are in direct defiance and contempt of the requests and demands of the relevant Traditional Owners of the respective country on which the proposals will potentially impact.
I hope that you and your colleagues clearly understand and consider the gravity of the consequences of your decision on this nationally and globally significant issue.
Yours, humbly and sincerely,
Mark Anthony Boswell

Mark Boswell
****
VIC 3012

Bottari, Linda – Sunday, 14 August 2022 – 09:38:21

Subject	Stop Origin's fracking on the NT
From	Linda Bottari
Sent	8/14/2022 9:38:21 AM

TO: The NT Dept of the Environment

I live in the Southern Highlands of NSW. We have successfully fought Hume Coal from fracking in Sutton Forest and Berrima. It has been a lengthly and costly battle made possible because of so many dedicated, knowledgable and financially capable people were able to defend our lands. People everywhere do not have the resources to do this. They must rely on our government and that means you. Please do not permit Origin or anyone else to begin or continue fracking. They should be putting their money into renewables. The NT is an ideal place for solar and other energy passive industry.

Linda Bottari
****
NSW 2478

Bottle, Eric – Friday, 12 August 2022 – 15:43:18

Subject	STOP Origin's fracking plans in the NT
From	Eric Bottle
Sent	8/12/2022 3:43:18 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against Origin for years.If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

eric Bottle
****
QLD 4572

Bourne, Duncan – Sunday, 14 August 2022 – 14:34:18

Subject	Please say NO to Origin's NT fracking plans
From	Duncan Bourne
Sent	8/14/2022 2:34:18 PM

Dear Sir/Madam.

I have family and friends in the NT and like them I was gobsmacked to learn of Origin's plans to drill twelve new fracking wells which threaten our water, cultural heritage, and everyone's climate.

You know our Traditional Owners have been loudly defending their country against Origin for years. If the NT Government approves these plans, it would not only be opening the way for Origin to frack and destroy country, water, and our climate, and it would be setting an unbelievable precedent for other fracking wells across the landscape.

Unbelievably Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

We are told Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. They will also produce 90 million litres of wastewater which they are planning to truck interstate. this should be enough to immediately say no.

Years ago Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

Duncan Bourne
****
NSW 2007

Bournes, Sue – Sunday, 14 August 2022 – 07:11:01

Subject	Stop Origins fracking plans
From	Sue Bournes
Sent	8/14/2022 7:11:01 AM

My name is Sue Bournes ,I'm 73 years old from the central coast NSW.I have visited Northern Territory a few times. As. A tourist and also worked in A lice Springs for a while in the dialysis unit where I met many First Nations people and fell in love with the land . I h ave red many articles and watched documentaries on gas fracking here and in other countries.The research and evidence points to bad outcomes to the population and the environment in those places Eg pollution to water ways and underground water sources, using huge amounts of the precious water in processing, degrading the surrounding environment with transporting process. I feel very strongly that you the Northern Territory should reject Origins application for fracking in your territory. Please don't listen to the money talk or the propaganda from this greedy multinational company ! Listen to the traditional owners who know this country and how to care for it ! and listen to the researches and scientific evidence against this process . Build more solar farms instead! Use all that SUN it's free and won't damage the environment..Your sincerely Sue .

Sue Bournes
****
NSW 2261

Bowen, Ross – Sunday, 14 August 2022 – 14:33:10

Subject	ross@bowenarrow.co
From	Ross Bowen
Sent	8/14/2022 2:33:10 PM

Please ensure that no further fracking occurs in Northern Territory. Australia is moving quickly to establish alternative energy and I do not see why a Company like Origin should put our land at risk just for their own greed. It does nothing for Australia this fracking, we dont get any return for the risks involved.

Ross Bowen
****
NSW 2428

Bowie, Bec – Friday, 12 August 2022 – 06:17:39

Subject	Stop Origins Fracking Plans
From	Bec Bowie
Sent	8/12/2022 6:17:39 AM

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

That's it. That's all you need to know. Big companies have run riot over our communities, notably our indigenous communities, and our environment. It would be absolutely fool hardy to risk and waste our water resources by letting Origin rampage ahead.

Stop Origins Fracking Plans.

Regards

Rebecca Bowie

Bec Bowie
****
NSW 2291

Bowker, Leslie – Friday, 12 August 2022 – 13:57:11

Subject	Stop Origin Fracking Plans in NT.
From	Leslie Bowker
Sent	8/12/2022 1:57:11 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Leslie Bowker
****
VIC 3760

Boyd, Felicity – Sunday, 14 August 2022 – 16:24:53

Subject	Don't do it
From	Felicity Boyd
Sent	8/14/2022 4:24:53 PM

It is sinful and evil to even think of fracking this beautiful country. The Northern Territory is so precious in its environment and must not be spoilt by Origin Energy. Don't let them do it.

Felicity Boyd
****
NSW 2290

Boyd, Rosalind – Saturday, 13 August 2022 – 10:47:01

Subject	Stop Origins fracking plans
From	Rosalind Boyd
Sent	8/13/2022 10:47:01 AM

I am writing to add my name to the argument against fracking in the Northern Territory. I have lived in the Northern Territory and know the immense beauty and wonder of the land there; it is unique, awe inspiring and some of the greatest land formations in the world. The age of the rock formations are about 4 billion years old, which is far older than the Himilayas. The reason to protect these areas is very important, and it is reported that artesian basins can be significantly effected through the process of 'fracking'. I urge you to get important geological findings on the effects of 'fracking' and seriously reconsider starting or continuing this process. In todays world there are many different choices for energy production, and with gas becoming an energy form which is now becoming outdated, the question is why to continue, to destroy the beautiful, unique environment, which also effects the economy through tourism. This could be effected in the longer term through the destruction of the unique land formations, which is what overseas tourists come to Australia to see.

Rosalind Boyd
****
VIC 3463

Boydell, Irena – Sunday, 14 August 2022 – 15:11:09

Subject	Stop fracking by Origin in the NT
From	Irena Boydell
Sent	8/14/2022 3:11:09 PM

I am writing in support of traditional owners who have said no to fracking for gas on their lands. There are many other reasons that this should not get the go ahead. Some are:
1. Climate change requires no new fracking of fossil fuels
2. Water will be contaminated through fracking
3. It will set an unacceptable precedent for future approvals of fracking
Please listen to the concerns of the community who inhabit the area.
Kind regards
Irena Boydell

Irena Boydell
****
NSW 2076

Boydell, Ruth – Saturday, 13 August 2022 – 14:26:08

Subject	Stop the Fracking
From	Ruth Boydell
Sent	8/13/2022 2:26:08 PM

NOrthern Territory PArks and Wildlife

Please do not frack the NT.
This type of oil extraction is detrimental to the envirnment and to local communities.
JUST say NO.

Ruth Boydell
132 Marshall St
Garden Suburb (Newcastle)
NSW 2289

Ruth Boydell
****
NSW 2289

Boylz, Simon – Sunday, 14 August 2022 – 18:08:18

Subject	Labor Beware – Unprincipled support for Beetaloo fracking invites electoral implosion
From	Simon Boylz
Sent	8/14/2022 6:08:18 PM

There is no ecologically sustainable basis allowing a respectful and safe future for traditional owners - while avoiding a substantial escalation in massively damaging climate warming - in permitting Origin's twelve new fracking drills in the Northern Territory.
The International Energy Agency, which once had securing production and access to fossil fuels as a substantial part of its remit, has now said a loud and clear no to any new fossil fuel projects, as have all informed climate scientists around the globe.
And here in Australia, the defeat and humiliation of the climate policy prevaricating federal coalition has shown that electors around the nation are likely to take a very dim view of any federal, state or regional government that permits new fossil fuel projects, especially those so comprehensively destructive as gas fracking.
It's a reaction that the Northern Territory Government would do well to think about very carefully in considering its response to Origin's fateful fracking push.

Simon Boylz
****
VIC 3054

Bracegirdle, Leah – Friday, 12 August 2022 – 20:40:57

Subject	Stop Origin Energy Fracking in NT...
From	Leah Bracegirdle
Sent	8/12/2022 8:40:57 PM

My name is Leah Bracegirdle, I live in NSW and I am very concerned about the effects fracking has on our precious water, climate and the destruction of country.

I am writing with the regard to Origins plans to open twelve new fracking drills in the Northern Territory.

Has the Pepper Inquiry been fully implemented for the proposal of the twelve fracking drills on Amegee Mugee
Pastoral Station?????
There are 135 recommendations to mitigate the environmental, social and cultural risks associated with fracking... can these risks be eliminated????

Will Origin fracking in NT. set a precedent for other fracking corporations to do the same, could this undermine the integrity of our regulatory system???

As Shoal Gas is in large areas of Traditional Land Owners, they must be HEARD.... Traditional Land Owners have been staunchly defending their country against Origin for years... yet to date they are still not being HEARD...
Nicholas Fitzpatrick a Yanyura & Garra Man from Boroloola says:
“ NO MEANS NO - We don’t want fracking on our land”...

Origin will need 430 million litres of water to drill and frack the proposed twelve drills... this will ultimately have an effect on groundwater and water resources to Aboriginal communities can be effected, risking supply of fresh, clean water. Will there be continued groundwater monitoring...????

So many questions to be answered ...
Please be carefully guided by the Pepper Inquiry to safeguard our Traditional Land Owners and protect our water.... climate ...

Regards
Leah Bracegirdle

Leah Bracegirdle
****
NSW 2316

Bradford, Colin – Friday, 12 August 2022 – 14:36:43

Subject	Stop Origen's fracking plans
From	Colin Bradford
Sent	8/12/2022 2:36:43 PM

I am a retire Uniting Church Minister, father of four adult children and nine grandchildren. I live in Sydney and have a step daughter and her husband living on a farming property just out of Orange, NSW.
For many years, I have had a passion to see justice for First Nations peoples because of their dispossesion through colonisation. And yet in some parts of Australia, including the Northern Territory, some Traditional Owners live on their country, country which could be threatened by fracking contaminating the waters.
Even more so, I am concerned for my grandchildren, some of whom are now adults, and their future children. The latest Intergovernmental Report on Climate Change paints a very bleak picture of life on earth in the next century unless immediate, and profound action is taken to reduce emissions of greenhouse gases. This report calls for an end to the opening of new coal mines and gas extraction.
For the sake of Traditional Owners, my great grandchildren, and the long term health of planet Earth, I humble request the Northern Territory Government's Department of Environment to reject Origin Energy's Environment Management Plan

Colin Bradford
****
NSW 2087

Bradley, Karen – Thursday, 11 August 2022 – 20:18:49

Subject	Stop Origins Fracking Plans in NT
From	Karen Bradley
Sent	8/11/2022 8:18:49 PM

We say NO to any fracking in the Northern Territory. This destructive process ruins our land, threatens our clean water supply and creates negative climate change.
We say NO to Origin and any other company who wants to frack them Northern Territory.

Karen Bradley
****
NSW 2482

Bradley, Sue – Saturday, 13 August 2022 – 14:19:35

Subject	Origin must not be allowed to being Fracking in the Northern Territory
From	Sue Bradley
Sent	8/13/2022 2:19:35 PM

I understand that Origin plans to open twelve new fracking drills in the Northern Territory. These wells threaten water, First Nations cultural heritage, and importantly our climate. Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

Sue Bradley
****
NSW 2121

Bradshaw, Alice – Friday, 12 August 2022 – 20:48:55

Subject	Listen to the Traditional Owners/
From	Alice Bradshaw
Sent	8/12/2022 8:48:55 PM

To the NT Department of Environment, Parks and Water Security

I write to you to request that you listen to, and prioritise, the voice of Traditional Owners in relation to Origin's EMP for fracking.

As a former resident of Darwin, I believe the true strength and appeal of the community is derived from your allegiance with local Aboriginal people. You lead Australia in this regard.

If you put Traditional Owners first, you put climate first, and you can show Australia that the NT knows how things should be done.

Because you do.

Please set an example by putting your foot down, in true NT style, and refute Origin's EMP. The Climate crisis threatens everything, we need true leaders.

Thank you

Alice Bradshaw

Kingsville VIC 3012

Alice Bradshaw
****
VIC 3121

Bramble, Ken – Saturday, 13 August 2022 – 16:30:04

Subject	Stop Origin's Fracking Plans
From	Ken Bramble
Sent	8/13/2022 4:30:04 PM

Please stop any further fracking in the Northern Territory as this has a major risk to underground water pollution and additional cause of destruction, pollution and climate change.

Ken Bramble
****
NSW 2287

Brasseur, Elisabeth – Saturday, 13 August 2022 – 16:41:00

Subject	Origin's fracking in the NT
From	Elisabeth Brasseur
Sent	8/13/2022 4:41:00 PM

Please stop Origin from fracking in the Northern Territory. Indigenous people are entitled to have their land protected and emissions have to be stopped considering the disaster unfolding around the planet, whether in Europe, the US, Australia and other places. What will it take to stop this awful destruction? What are we leaving to our children?

Please act as real leaders for the benefit of us all and the planet.
In hope and despair.

Elisabeth Brasseur
****
NSW 2850

Braun, Peter – Friday, 12 August 2022 – 14:19:11

Subject	Please stop fracking
From	Peter Braun
Sent	8/12/2022 2:19:11 PM

Australia already products plenty of gas. You sell it overseas. It does not benefit Australia. It does not benefit the environment.
It does not benefit anyone or anything except your profit.
Despite your company's view,
Australians are not idiots.
The last election demonstrated the concern of the people of Australia for the environment..
Please stop your fracking and your family plans.
The climate impacts would be enormous, and that is just considering the emissions you appear to be actually counting. How are you claiming that Origin is reducing emissions?
I have already moved away from Origin, and I will continue to encourage others to do the same.

Peter Braun
****
NSW 2065

Bray, Anna – Sunday, 14 August 2022 – 20:57:24

Subject	Re: Origin's fracking plans
From	Anna Bray
Sent	8/14/2022 8:57:24 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.
Traditional Owners have been staunchly defending their country against Origin for years.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country and water, but would be setting a precedent for other fracking corporations to do the same.

Anna Bray
****
NSW 2230

Bray, Jeanette – Sunday, 14 August 2022 – 13:29:47

Subject	Stop Fracking
From	Jeanette Bray
Sent	8/14/2022 1:29:47 PM

It will be an environmental disaster to open fracking in NT and Origin"s plans to open 12 new fracking drills must be stopped. We must protect our water table and show respect for the wishes of the traditional owners who oppose fracking. We need to think of the long term and protect our environment, slow climate change, stop fossil fuels and turn to renewable energy now.

Jeanette Bray
****
WA 6281

Bray, Michael – Monday, 15 August 2022 – 16:29:00

Subject	Stop all fracking
From	Michael Bray
Sent	8/15/2022 4:29:00 PM

Stop this dangerous procedure everywhere.

Michael Bray
****
NSW 2847

Bray, Susan – Sunday, 14 August 2022 – 09:39:58

Subject	Stop Origin fracking in NT
From	Susan Bray
Sent	8/14/2022 9:39:58 AM

Why?? Such an ideal climate for renewables.

Susan Bray
****
NSW 2021

Braybrook, Colin – Sunday, 14 August 2022 – 21:30:07

Subject	Fracking practice's in Australia
From	Colin Braybrook
Sent	8/14/2022 9:30:07 PM

I wish to register my disapproval to any fracking practice's not only in the NT but anywhere in Australia

colin braybrook
****
VIC 3564

Brennan, Alan – Sunday, 14 August 2022 – 15:20:27

Subject	NT Government Fracking Plans
From	Alan Brennan
Sent	8/14/2022 3:20:27 PM

Please no more Fracking drills in the NT

Alan Brennan
****
NSW 2015

Brennan, Norman – Saturday, 13 August 2022 – 21:10:23

Subject	Stop Origins destructive fracking.
From	Norman Brennan
Sent	8/13/2022 9:10:23 PM

Origin has shown zero concern for the environment and indigenous history. Fracking has many safety and reliability issues, and any transgressions or environmental damage will incur "petty cash" fines compared to the financial windfall they will make, especially when they are government financed.

Norman Brennan
****
ACT 2602

Brennan, Patrick – Sunday, 14 August 2022 – 16:40:39

Subject	Origin fracking in NT is dangerous.
From	Patrick Brennan
Sent	8/14/2022 4:40:39 PM

Dear Northern Territory Government,

It is not only you, but the whole of the planet who will be affected by your decision on fracking.

Warm regards, Patrick Maleny

Patrick Brennan
****
QLD 4552

Brennan, Sarah – Friday, 12 August 2022 – 18:38:46

Subject	Don’t let Origin frack the NT
From	Sarah Brennan
Sent	8/12/2022 6:38:46 PM

Hi,

My name is Sarah and I am a young person from a Melbourne who is deeply concerned about climate change and the impact it has on First Nations people. I am writing in opposing allowing Origin to open twelve new fracking wells in the Northern Territory.

I am concerned about the lack of consideration there is of the impact the wells will have on water and the climate. The methane released from fracking gas contributes to the climate crisis and no amount of accounting trickery can hide the impact it will have. We shouldn’t be opening new coal, oil and gas projects amidst the climate crisis we face. Moreover, the water usage for this project is massive, and there is no consideration for where the waste water will go. This water is needed for First Nations communities and ecosystems, not for fracking.

No one seems to be treating the climate crisis with the seriousness it deserves, and by allowing this project the NT government is only exacerbating the problem.

Sarah Brennan
****
VIC 3123

Briggs, Anne-Marie – Thursday, 11 August 2022 – 15:02:45

Subject	Stop Origin
From	Anne-Marie Briggs
Sent	8/11/2022 3:02:45 PM

If the NT Government approves these fracking plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please put a stop to it.

Anne-Marie Briggs
****
NSW 2440

Briggs, Robert – Friday, 12 August 2022 – 15:25:18

Subject	Origin's fracking plans would be an environmental disaster
From	Robert Briggs
Sent	8/12/2022 3:25:18 PM

To the NT Department of Environment, Parks and Water Security:

I live in Ringwood North, a long way south of Origin's proposed 12 new fracking drills. But distance does not diminish my anger at Origin's reckless plans to frack and destroy country, water and our climate.

I am asking the Department to reject Origin's fraking plans.

Robert Briggs
****
VIC 3134

Brimson, Erin – Sunday, 14 August 2022 – 09:29:24

Subject	Stop Origin's fracking plans
From	Erin Brimson
Sent	8/14/2022 9:29:24 AM

To the Northern Territory Department of Environment, Parks and Water Security,

As a teacher who has lived in most states in this great country, I stand with the Traditional Owners of the NT in opposing Origin Energy's plans to open new fracking drills.

Economically in 2022, it is now common knowledge that fracking only financially benefits the energy company NOT the people or state in which the resources are being extracted.

Fracking is not the answer, in the 21st Century and a time of energy crisis and shortages we should be moving to a renewable future. The Northern Territory's beauty and nature depend on a Fossil Fuel Free future, our children's future demands it!

I am asking the Department to reject Origin's EMP for all future generations' water and land security.

Cheers,
Erin Brimson

Erin Brimson
****
SA 5700

Brock, Merrylin – Thursday, 11 August 2022 – 16:45:40

Subject	Origin fracking plans
From	Merrylin Brock
Sent	8/11/2022 4:45:40 PM

On behalf of the original owners and the aboriginal communities as A whole I demand that you immediately do not approve s as my plans from origin as they have not adhered to the requirements set out to allow fracking in NT and intend by ignoring these they endanger the waters required by aboriginal communities to live snd survive destroying in the process the climate and the cultural traditions of the traditional owners

Merrylin Brock
****
NSW 2204

Brockman, Jenny – Friday, 12 August 2022 – 08:59:40

Subject	stop origin's fracking plans
From	Jenny Brockman
Sent	8/12/2022 8:59:40 AM

Hello,
my name is jennifer brockman and i am writing to request that you do not allow origin energy to do any fracking anywhere in the Northern Territory. we need to generate renewable energy! If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

I am writing this submission in soldiarity with the indigenous people whose land will be most affected. the Traditional Owners must be respected and climate change must be addressed.

I conclude by asking the Department to please for the sake of future generations and fr the sake of reducuing more damage to the planet please reject Origin's EMP.
jennifer Brockman
****

Jenny Brockman
****
VIC 3015

Brodie, Cate – Thursday, 11 August 2022 – 16:36:18

Subject	catebrodie@gmail.com
From	Cate Brodie
Sent	8/11/2022 4:36:18 PM

Stop fracking and have the sensitivity of First Nation People

Cate Brodie
****
NSW 2460

Brogan, Martyn – Saturday, 13 August 2022 – 14:28:39

Subject	I thought we were now post-fossil fuels!
From	Martyn Brogan
Sent	8/13/2022 2:28:39 PM

My name is Martyn Brogan and I am a proud Australian and a concerned citizen.

After a successful beginning to the development of desperately required changes to Australia's federal policies affecting climate and the environment, I am hopeful that this positive beginning will be expanded on by decisions that result from your deliberations in the NT.

All the science that I have been able to access indicates that we are already too late to avoid significant damage to the planet and the planet's climate caused by the exploitation and use of fossil fuels, most particularly coal and fracked gas.

As a proud Australian and a concerned global citizen, I am hopeful that the policies suggested as a result of your inquiry will mean that the development of any new fossil fuel resources will be ceased.

I wish you well in your deliberations.

Martyn Brogan
****
VIC 3068

Brooker, John – Thursday, 11 August 2022 – 14:56:39

Subject	In the interest of our World, Stop Origin's Plans to Frac the NT for Profit
From	John Brooker
Sent	8/11/2022 2:56:39 PM

Today, We were informed that Antarctic scientists are concerned that, if IMMEDIATE action is not taken to stop as far as possible any further emission of greenhouse gasses i.e. CO2 and methane, the Eastern Antarctic ice sheet will melt, indeed, it has unexpectedly already started to melt! If this continues (it is almost the same area as Australia) it will inevitably lead to dangerous sea level rises of the order of 3 -5 metres before 2050 and if it were to totally melt, 50 metres sea level rise. Think about it!

You have the power to stop Origin's plans and make a statement to all other Governments in Australia, that the NT Govt at least, will not permit further fossil fuel Mining in the Territory. As the Greens said recently "You cannot put out a fire by pouring petrol on it"

John Brooker
****
WA 6163

Brooks, Beverley – Friday, 12 August 2022 – 14:32:01

Subject	Stop Origin’s fracking plans
From	Beverley Brooks
Sent	8/12/2022 2:32:01 PM

The proposed twelve new drills threaten our water, cultural heritage and our climate.When there are a lot of alternatives we should not do this in these enlightened times.

Beverley Brooks
****
NSW 2009

Brooks, Patricia – Saturday, 13 August 2022 – 15:16:07

Subject	Stopping Origin's fracking plans for new wells.
From	Patricia Brooks
Sent	8/13/2022 3:16:07 PM

Concerning Origin's fracking plans, these new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

There has been evidence in the past within other states that fracking poses so many problems to ground water and within the communities near.
But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.
We really cannot allow this to happen.
Yours truly,
P Brooks

Patricia Brooks
****
QLD 4164

Brown, Ann – Saturday, 13 August 2022 – 06:37:10

Subject	Stop Fracking in NT
From	Ann Brown
Sent	8/13/2022 6:37:10 AM

I am very concerned re Origin opening more fracking in NT. Science shows it is bad for our water and climate. I think too, we must listen to and respect concerns of the traditional owners of our land.
Listen to the science.
Ann Brown

Ann Brown
****
QLD 4066

Brown, Anthony – Sunday, 14 August 2022 – 21:24:03

Subject	Origin to frack and destroy
From	Anthony Brown
Sent	8/14/2022 9:24:03 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please do not allow these plans to progress!

Anthony Brown
****
VIC 3184

Brown, Colin – Saturday, 13 August 2022 – 16:21:58

Subject	Fracking
From	Colin R Brown
Sent	8/13/2022 4:21:58 PM

Fracking is a offence against nature; and a tribute to man's arrogance and stupidity.
we do things like fracking with little if any knowledge of the potential long term effects of our behaviour.---for a few coins!!
we have all the energy we will ever need with renewables. The insanity must stop now!

Colin R Brown
****
NSW 2107

Brown, David – Sunday, 14 August 2022 – 14:36:09

Subject	No New Fossil Fuel Projects
From	David Brown
Sent	8/14/2022 2:36:09 PM

We are in a Climate Crisis.
No New Fracking!!!!
David Brown

David Brown
****
QLD 4870

Brown, Hilary – Friday, 12 August 2022 – 21:03:21

Subject	Please Stop Origin's reckless fracking plans
From	Hilary Brown
Sent	8/12/2022 9:03:21 PM

My name is Hilary and I live in Hobart and I have 7 grandchildren. I am passionate about Australia becoming a fairer more inclusive society that puts people and the environment above profits for multinational companies.
Origin's fracking plans threaten valuable water resources, First Nations cultural heritage and will contribute to greater global warming.
For the future of our children and grandchildren it is vital that as a nation we are driven by our values especially people before profits.
Hilary Brown

Hilary Brown
****
TAS 7005

Brown, James – Sunday, 14 August 2022 – 16:17:04

Subject	Stop Origin's fracking plans
From	James Brown
Sent	8/14/2022 4:17:04 PM

We need less fossil fuels, not more!

Please respect Traditional Owners and block Origin's fracking plans.

Thanks, James.

James Brown
****
VIC 3179

Brown, Josephine – Friday, 12 August 2022 – 13:37:49

Subject	STOP RECKLESS FRACKING PLANS
From	Josephine Brown
Sent	8/12/2022 1:37:49 PM

Origin's plans to open twelve new fracking drills in the Northern Territory — but these wells will threaten water, cultural heritage and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

As you may have heard, fracking has been blamed for leaking millions of tons of methane, a greenhouse gas more potent than carbon dioxide. Fracking is also associated with the release of other airborne hydrocarbons that can cause health and respiratory issues.

One of the biggest effects of fracking on people is respiratory problems. Why?

Toxic gases like benzene are released from the rock by fracking. Similarly, a toxic waste brew of water and chemicals is often stored in open pits, releasing volatile organic compounds into the air that we all rely on to keep living.

Fracking uses large amounts of water, which can become contaminated and affect local groundwater.

If the NT Government approves these plans, it will not only be paving the way for Origin to frack and destroy country, water and our climate, but it will set a horrifying precedent for other fracking corporations to do exactly the same.

SERIOUSLY, DON’T APPROVE THESE PLANS.

Josephine Brown
****
QLD 4152

Brown, Mike – Thursday, 11 August 2022 – 15:11:58

Subject	Stop Origin's reckless Fracking Plans
From	Mike Brown
Sent	8/11/2022 3:11:58 PM

To:
Northern Territory Department of Environment, Parks and Water Security,

Why is our Lucky Country being slowly eroded from the inside out? We stand together in the face of adversity - flood, fire, pestilence, foreign take over - but do not hesitate to quietly plunder our landscapes, heritage and culture in the name of personal justification.

Why is that?

Surely we cannot blame it all on greed? That would be too shallow of an assumption!

But I do ask myself, where have all the smart visionary people gone? Is it not time for the pre-digital visigoths to finally lay down their crude weapons and learn again to respect others and value the natural order…..this is the only path forward, free of dark feelings and disorder.

Please value our indigenous brothers and sisters….it's all about karma!

Mike Brown

mike brown
****
NSW 2205

Brown2325, Bernice – Thursday, 11 August 2022 – 14:41:31

Subject	Stop Origin's Fracking Plans
From	Bernice Brown2325
Sent	8/11/2022 2:41:31 PM

To the Northern Territory Government
I am a citizen of Australia concerned that greedy energy and commodity companies who make enormous profits mostly sent overseas, who pay little or no tax to the Australian people are being allowed to destroy our environment with no responsibility towards any Australian people when it comes to protecting Sacred Aboriginal sites and lands or considering environment concerns such as animal habitat and water quality.
These companies are paid outrageous royalties with no oversight by Government, especially the Territories where the Federal Govt is responsible directly.
I am directly warning the Prime Minister that if he does not intercede in allowing these companies to blatantly court Climate Change in a irresponsible manner, there will be no clean air, clean water or lands capable of producing food.
In the looming apocalypse, coal will not nourish us, gas will not ease our thirst and minerals will not give us shelter.
The only thing left will be uranium which we all could welcome because it may offer fairly rapid, if horrific, death.
It is time you lot listened to the ancient wisdom of our First Nations people - listen and learn.
They did not, after all call those places where uranium lurks, 'The Sickness Country'.
YOUR THOUGHTLESS, GREEDY BEHAVIOUR IS GOING TO MAKE US ALL REALLY, REALLY SICK.
Think it through to a logical conclusion.
Bernice

Bernice Brown2325
****
NSW 2325

Browne, Maggie – Saturday, 13 August 2022 – 15:11:42

Subject	Origin's Fracking Plans must not proceed please
From	Maggie Browne
Sent	8/13/2022 3:11:42 PM

I respectfully send this message from far-away Regional Victoria and make an impassioned plea to the "powers-that-be" to never give consent to plans by Origin to open TWELVE new fracking drills in the Northern Territory.
The Traditional Owners know what's best for Mother Earth. Mother Earth would suffer unimaginable stress, as would the caring and loving inhabitants of this area. Please do the right and honourable thing and REJECT Origin's EMP.

Maggie Browne
****
VIC 3555

Browning, David – Sunday, 14 August 2022 – 09:10:12

Subject	Fracking wells
From	David Browning
Sent	8/14/2022 9:10:12 AM

There is no doubt that the practice of fracking includes unknown consequencies, particularly in relation to effects on ground water.
Also resources given to the exploration of fossil fuels must be diverted to the production of clean energy before it is too late.

David Browning
****
NSW 2575

Bruce, Larry – Monday, 15 August 2022 – 19:18:58

Subject	Stop Origin's fracking plans everywhere.
From	Larry Bruce
Sent	8/15/2022 7:18:58 PM

All govts should show that they mean business with these mineral companies & just cease all operations immediately instead of pussyfooting around for years with time & money wasting surveys enquiries & court hearing which all companies play with to reap more money before a closure is announced in a period of say 10 years.
All our govts are so weak.
They are not there for the people particularly in the NT, WA & Qld.

Larry Bruce
****
NSW 2738

Bruinewoud, Robert – Saturday, 13 August 2022 – 17:00:22

Subject	Stop Origin for fracking the Top End, and fracking the world
From	Robert Bruinewoud Bruinewoud
Sent	8/13/2022 5:00:22 PM

to whom it may concern –

just a short note to beg you to stop Origin from fracking the Top End, and in turn, destroying human civilisation.

It is sadly ironic that in a land boasting some 60,000 years of continual culture, criminally negligent corporations like Origin are working to bring about the end of humanity. It is sickening.

No sane society would ever countenance actions as short-sighted and selfish as those proposed by Origin. The fact that people of good conscience need to write submissions in an effort to prevent this wanton vandalism is beyond depressing.

Do the right thing and send a message to those monsters who would happily destroy the planet for a few dollars more in their already-bloated accounts. The Top End and Australia are not interested in being fracked.

Robert Bruinewoud

Robert bruinewoud bruinewoud
****
VIC 3107

Brusin, Eugene – Friday, 12 August 2022 – 20:58:44

Subject	Stop Origins fracking plans
From	Eugene Brusin
Sent	8/12/2022 8:58:44 PM

During a time when renewables are becoming mainstream and countries are facing drinkable water shortages why allow that resource to be contaminated for a quick profit.
Deny the permit

Eugene Brusin
****

Bryars, Caryl – Thursday, 11 August 2022 – 15:04:42

Subject	Stop origin's fracking plans
From	Caryl Bryars
Sent	8/11/2022 3:04:42 PM

To protect our lands water safety, environment,for future generations please do not allow this destruction of the northern Territory .aboriginal land and its people need be protected not destroyed.for all environmental diversity this must not happen thankyou .

Caryl Bryars
****
NSW 2315

Buchanan, Ian – Monday, 15 August 2022 – 10:36:11

Subject	Fracking plans by Origion
From	Ian Buchanan
Sent	8/15/2022 10:36:11 AM

My name is Ian Buchanan, and I am 81 years of age. Now I live in the northern rivers of NSW. I am writing about my fears regarding the plans by Origin for drilling fracking wells in the NT.
In the past, I have worked on cattle stations on the NT and know the necessity of bore water for water supply for stock and homestead settlements.
I have read and watched the results in many parts of the world of these fracking wells. It fills me with horror to think that the water table of this area will be disrupted forever by the totality of the change that these drilling plans will make. To add to these thoughts are the present worldwide weather-changing events due to our past lack of understanding and massive consumption of these products.
I fully support the rejection of Origin's plans and call on the NT government to ban these plans.
Yours,
Ian Buchanan.

Ian Buchanan
****
NSW 2486

Buck, Sandra – Saturday, 13 August 2022 – 16:56:24

Subject	Submission against Origin fracking plans
From	Sandra Buck
Sent	8/13/2022 4:56:24 PM

To Northern Territory's Department Environment, Parks and Water Security

My name is Sandra Buck and I am from Northern Rivers NSW and I am writing this submission expressing my concern with Origin plans to open new fracking drills in Northern Territory.

As we know out of experiences in the past fracking is polluting our water and using a lot of water, destroying landscapes, contributing to climate change and destroying Traditional owners land.
This isn't right and I oppose strongly and hope you support these concerns.
We have enough natural disasters from climate change and need to look into alternative ways to create energy.

Thank you for reading my submission
Kind regards
Sandra Buck

sandra buck
****
NSW 2482

Buckingham, Carol – Saturday, 13 August 2022 – 15:25:24

Subject	Stop fracking by Origin in the NT
From	Carol Buckingham
Sent	8/13/2022 3:25:24 PM

I live in the Reid electorate which returned to Labor in the Federal election. Climate change was a major issue for me when I voted.
I am strongly against fracking by Origin in the NT because the amount of water needed for this process is huge and aboriginal people in remote areas deserve guaranteed clean water for daily life.
The polluted water left after fracking has to go somewhere and no state will volunteer to accept it even if Origin agrees to truck it out of the NT.
Gas is not a clean fuel and adds to Australia's emissions.
It is time to support renewable energy and take climate change seriously

Carol Buckingham
****
NSW 2132

Buckley, Michael – Saturday, 13 August 2022 – 09:18:17

Subject	Stop Origins fracking plans
From	Michael Buckley
Sent	8/13/2022 9:18:17 AM

To the Northern Territory lane parks and waterways department . I am writing this submission in an effort to stop the fracking plans Origins EMP. I am a farmer in the Victorian high country and I have become aware over my lifetime of the vulnerability of our world that we all share together and with our rare and special wildlife. Everything in this world is connected and if one species is gone everything is affected. Our local indigenous people have been overlooked for over two centuries and now that we are at a point in our history were this travesty can change I want there voices to be heard. They have knowledge and cultural heritage we need to learn and observe in order to move ahead in safety. We need peace and respect more than the destruction and division this fracking will create.

michael buckley
****
VIC 3956

Buckpitt, Rosalynde – Friday, 12 August 2022 – 18:33:56

Subject	Origin Gas Fracking plans
From	Rosalynde Buckpitt
Sent	8/12/2022 6:33:56 PM

To the Department of Lands, Environment and Water Security,
I am extremely disturbed to learn that that Origin Energy is proposing several new gas fracking ventures in the Northern Territory.
I strongly oppose any new gas fracking plans knowing, as we all do, the threat they pose to the environment, to our precious water resources and, most importantly, the impact on our climate.
For the sake of our country and future generations pleased do not allow these plans to go ahead.

Rosalynde Buckpitt
****
NSW 2484

Bugeja, Vic – Saturday, 13 August 2022 – 14:28:12

Subject	Stop the fracking
From	Vic Bugeja
Sent	8/13/2022 2:28:12 PM

We don't need any more gas. Especially the fracked type.

Vic Bugeja
****
VIC 3195

BUITRAGO, ALICIA – Saturday, 13 August 2022 – 19:29:14

Subject	FRACKING
From	ALICIA BUITRAGO
Sent	8/13/2022 7:29:14 PM

STOP ALL THE RECKLESS FRACKING NOW.

ALICIA BUITRAGO
****
QLD 4680

Bullied, Stephen – Thursday, 11 August 2022 – 15:04:29

Subject	Stop Origin's fracking plans.
From	Stephen Bullied
Sent	8/11/2022 3:04:29 PM

Dear Sir/Madam

I am writing to urge the NT Government to dismiss the Origin application to conduct fracking operations in the Northern Territory.

For more than twenty years fracking has been demonstrated as an extremely dangerous method of trying to access gas deposits. The risks to water tables has been shown time and time again. The fact that it is even being contemplated is unbelievable.

Please, reject the applications.

Furthermore, the very idea that we are contemplating drilling for gas in the middle of a climate emergency is simply ridiculous.

Please, don't allow this to happen.

Kind regards
Stephen Bullied

Stephen Bullied
****
WA 6255

Bullivant, Jacqui – Sunday, 14 August 2022 – 17:24:14

Subject	Stop Origins Fracking plans
From	Jacqui Bullivant
Sent	8/14/2022 5:24:14 PM

Please do not allow Origin Energy’s gas fracking on traditional lands and create a cultural and environmental disaster !
Regards
Jacqui

Jacqui Bullivant
****
NSW 2640

Bunning, Barrie – Saturday, 13 August 2022 – 15:23:50

Subject	Proposed ' Fracking ' on first nations land in the Northern Territory .
From	Barrie Bunning
Sent	8/13/2022 3:23:50 PM

I feel strongly against all fracking in the Northern Territory as it results in damage to the country and all underground water.
The first nastions people do not want it .
Regards ,
Barrie B.
Melbourne .

Barrie Bunning
****
VIC 3195

Burdett, Helen – Sunday, 14 August 2022 – 15:41:24

Subject	Origin's fracking plans are contrary to our best interests
From	Helen & John Burdett
Sent	8/14/2022 3:41:24 PM

Given the recent very destructive impacts on Australia's environment due to climate change, the prospect of adding to our emissions through fracking is totally unacceptable.Not only does this increase unwanted emissions it will adversely affect the water table and undermine the ability of the Traditional Owners to appropriately care for their country which they have been doing for countless generations. (If gas or oil are exported they will be used elsewhere thereby adding to emissions.)
Although companies such as Origin will wish to make considerable profits from fracking, this activity is quite obviously contrary to the best interests of both the indigenous and the general population.
Natural gas supplies are being phased out here in the ACT and electric vehicles are being strongly encouraged. A final date has been set for the sale of new petrol driven cars.
I sincerely hope that you will not give Origin permission to proceed with fracking,
.

Helen & John Burdett
****
NSW 2505

Burdon, Jenni – Friday, 12 August 2022 – 21:09:52

Subject	Stop Origins Fracking works plans
From	Jenni Burdon
Sent	8/12/2022 9:09:52 PM

Stop fracking plans now, it destroys the water table and destroys the country. Traditional Owners need custody of these lands. Stop all plans immediately. Thank you Jenni Burdon

Jenni Burdon
****
TAS 7004

Burdon, Rebecca – Sunday, 14 August 2022 – 14:40:24

Subject	rebeccaburdon@gmail.com
From	Rebecca Burdon
Sent	8/14/2022 2:40:24 PM

Origin plans to open twelve new fracking drills in the Northern Territory which threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it will pave the way for Origin to frack and destroy country, water, and our climate, and set a horrifying precedent for other fracking corporations to do exactly the same. I submit that the Department should reject Origin's plans, and move to implement an outright Ban on new gas exploration immediately and development of any new gas extraction operations from 2030.

Rebecca Burdon
****
VIC 3070

Burgh, Joanna – Saturday, 13 August 2022 – 16:11:16

Subject	Stop Origin's fracking plans and activities
From	Joanna De Burgh
Sent	8/13/2022 4:11:16 PM

The Northern Territory Government
Dear Ministers,
My name is Joanna de Burgh, I live in Tasmania, and daily, I experience the changes of global warming. From my recent realisation that the sea water is so warm I can immerse without discomfort even now, August, to mu apple tree flowering in the autumn when this should happen in the spring. At all levels of society, government, business, corporations, individuals, we need to do what we can for the future of our children and grandchildren.
I call on the minister responsible to listen to those who are not pretending that this is serious, a serious threat to our planet and all the creatures who live here. There are smarter ways to go forward. Please reject the fracking. It will poison the earth and contribute to dangerous climate warming and change.
Yours faithfully,
Joanna de Burgh MBBS, Dip Soc Sci, FPA cert.

Joanna de Burgh
****
TAS 7004

Burgher, Bill – Saturday, 13 August 2022 – 15:53:59

Subject	Origins Fracking Plans must NOT go ahead
From	Bill Burgher
Sent	8/13/2022 3:53:59 PM

I am a retired Industrial Chemist with twelve years experience in the mining and minerals processing industries.
I am aware of the effects of fracking on water aquifers and the country generally. The effects are all bad namely water loss and contamination as well as degradation of the countryside generally.
Because Australia has an abundance of gas already and gas extraction will be phased out by 2030, Origin's Fracking Plans must NOT go ahead!

Bill Burgher
****
QLD 4301

Burke, Christine – Friday, 12 August 2022 – 14:33:26

Subject	Origin's fracking plans
From	Christine Burke
Sent	8/12/2022 2:33:26 PM

The secretary,
Department of wild life and environment
Northern Territory

Dear Sir/Madam,
I a writing to support Traditional Owners who deplore the possibility of Origin destroying the land, further eroding their culture, and damaging the water supply through fracking. this process offends against all efforts to respect the land on which we live, to see "mother earth" as more than a receptacle of gods that 21st century people can ravage.
I beg you to find against these plans and move your territory towards a more holistic approach to our land, one which will ensure that we do not continue to destroy for short term gain.
sincerely
Christine Burke

christine burke
****
NSW 2061

Burles, Bronwyn – Saturday, 13 August 2022 – 10:10:06

Subject	I object to Origin's plans for more exploratory fracking
From	Bronwyn Burles
Sent	8/13/2022 10:10:06 AM

My name is Bronwyn, I live in Tasmania - a fair distance away from the NT, granted! Yet this is also my country as much as yours.

My concerns are for all of Australia, and the global effects of fracking practices. Despite seeing the damage it has caused in other areas of the world, this company still continue to do it... Why on earth are fossil fuels still being extracted in this day and age, when our climate is on the brink of utter disaster? How can this move be supported by anybody with a semblance of some intelligence and a conscience? Leave the gas in the ground. Invest in renewables.

I write to make it crystal clear that I would like you to reject Origin's EMP and respect the wishes of the traditional owners of the land.

Regards,
Bronwyn Burles
189 Westbury Road
Prospect, TAS 7250

Bronwyn Burles
****
TAS 7250

Burman, Joy – Sunday, 14 August 2022 – 08:13:13

Subject	Origin fracking drills for gas
From	Joy Burman
Sent	8/14/2022 8:13:13 AM

To the Northern Territory government.
It seems very short sighted to be allowing fracking drilling for gas in the territory. This is detrimental to the land and water unnecessarily. Gas is being phased out world wide as a fuel as the damage of fossil fuels use is realised.
Water supplies in indigenous communities should not be contaminated by the fracking process.
Allowing reckless action by Origin is a
Backward step that should be halted immediately.

Joy Burman
****
VIC 3150

Burns, Lore – Sunday, 14 August 2022 – 07:56:26

Subject	Don't You Fracking Dare
From	Lore Burns
Sent	8/14/2022 7:56:26 AM

Dear NT Department of Environment etc,

WTF is wrong with you?!! I cannot believe (well, actually I can because the government has shown over and over again it only cares about profits and not Country) that you are yet again on the brink of allowing yet another destructive and horrifying fracking project to go ahead. If you approve this, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same!

Again, wtf is wrong with you?? You are supposed to be working with Traditional Owners to protect Country, which includes people, water, earth, sky etc. In the wise words of Obi-Wan "you were supposed to destroy the [corrupt corporations], not join them!!".

Please, for the love of god/s reject Origin's plans to frack the NT and listen to the people. ESPECIALLY Indigenous voices. Preserve and regenerate Country instead, you know, like your whole mission is supposed to be.

With utmost sincerity,

Lore

Lore Burns
****
VIC 3160

Burns, Neville – Sunday, 14 August 2022 – 17:20:12

Subject	Stop Origins fracking plans.
From	Neville Burns
Sent	8/14/2022 5:20:12 PM

N.T. Department of Environment, Parks and Water Security;
Please do not approve of Origins fracking plans which are a serious threat to our lands, our water and our traditional landowners rights. Approving these plans, which make an absolute joke of our regulatory system would set a precedent for other fracking corporations to do something similar. Please , protect our lands and water from corporations wanting only to make more money at the expense of our beautiful country, our indigenous people and our climate.

Neville Burns
****
NSW 2783

Burr, Helen – Sunday, 14 August 2022 – 15:19:21

Subject	Stop Fracking in NT
From	Helen Burr
Sent	8/14/2022 3:19:21 PM

Hi my name is Helen Burr and I'm from Tasmania. I have seen so much damage caused through taking so much from the land. The Traditional Owners are asking you not to do this please, the repercussions of what you do is so far reaching, water collapsing, whether above or below the land, animals that live there that are now on extinct list, greed is what is ruining this world and its time to say no more.

Helen Burr
****
TAS 7310

Burr, Samantha – Thursday, 11 August 2022 – 14:42:51

Subject	Stop fracking
From	Samantha Burr
Sent	8/11/2022 2:42:51 PM

Stop ruining our country.

Stop fracking!

Samantha Burr
****
NSW 2026

Bursian, Olga – Saturday, 13 August 2022 – 16:19:14

Subject	ORIGEN'S EMP
From	Olga Bursian
Sent	8/13/2022 4:19:14 PM

Dear Madam/Sir,

I am a semi retired academic living in Melbourne but my family lived in Darwin for 16 years. I urge the government to drop fracking explorations and drilling immediately because the national and international evidence is that this contaminates and depletes water tables. This would be a calamitous outcome for Australia particularly in the light of our recent natural calamities and Tania Plibesek's near despair at what she called a near impossible task of undoing existing environmental damage.

It is still within the power of a decent Labor government to mitigate climate change and in that light, all fracking needs to stop. I have not mentioned the fact that we are one of the world's biggest exporter of gas, and do not need more gas . The profits are made by international corporates, so to end all further mining of gas and other fossil fuels is a no brainer - again for a decent Labor government.

Sincerely
Olga Bursian

Olga Bursian
****
VIC 3870

Burton, Alanna – Monday, 15 August 2022 – 09:41:38

Subject	PLEASE STOP ORIGIN FROM FRACKING
From	Alanna Burton
Sent	8/15/2022 9:41:38 AM

To the Northern Territory Department of Environment, Parks and Water Security.

As someone who has travelled to your beautiful state, along with many, many others - I am begging you - please do not allow Origin Energy to frack the Northern Territory.

Not only will this destroy the beauty, nature,water courses of this beautiful country, but will lead the way for more greedy, self-serving organisations to do the same.

In a world where climate change is being fully realised, with other countries and states realising the dangers in coal and gas mining and the danger they are presenting to our future, it seems positively ludicrous that anyone in Australia would approve such dangerous activity.

As far as tourism goes - which is money for the state, and gives many businesses the income they need, which, of course is then jobs - tourists wont travel to a country that's getting mined and fracked. They want the beauty of nature. They want tradition/history. The more our country allows these greedy businesses to ruin the beauty and uniqueness that is ours, the less tourism there will be. With more of the world's population being younger and aware and anxious for their future and the future of our planet, countries like ours will be boycotted by those who will protest against the support of businesses like Origin who have no regard for their future, by a country that doesnt seem to care. And that means less tourism dollars, less business and less jobs.

I am asking you to PLEASE - reject Origin's EMP for the sake of us all.

Thank you for your positive response and action.

Alanna Burton
****
VIC 3375

Burton, Bob – Saturday, 13 August 2022 – 18:08:35

Subject	Is fracking a good thing?
From	Bob Burton
Sent	8/13/2022 6:08:35 PM

Dear Northern Territory Government environmental department.
Is fracking good for the land? NO
Is fracking good for the environment? NO
Is fracking good for people? NO
Is fracking good for Australia? NO
Is fracking good for the planet? NO
Is fracking good for our Grand children? NO.
Then why is this being considered an option?
Say NO to fracking, your grandkids will thank you for your fore thought!

Regards
Bob Burton

Bob Burton
****
QLD 4562

Bush-Belton, Rory – Friday, 12 August 2022 – 20:05:54

Subject	Stop Origin Fracking
From	Rory Bush-Belton
Sent	8/12/2022 8:05:54 PM

To the NT DEPW,

Fracking is more destructive than you ever may realise. Enough of Australia has been torn up. The state of the environment report is proof that these exploitative practices cannot continue. It is not sustainable.

Regards,
Rory Bush-Belton

Rory Bush-Belton
****
TAS 7250

Buss, Judy – Sunday, 14 August 2022 – 14:06:26

Subject	Stop Origin's fracking plans
From	Judy Buss
Sent	8/14/2022 2:06:26 PM

To the NT Department of Water Security, Environment.
To whom it may concern,
Even as Europe burns & endures drought, Australian communities are repeatedly flooded out by unprecedented rainfall & we still have thousands of homeless people as climate change victims of both flood & fire still left languishing, how is it OK to rubber stamp greedy gas companies hoping to sink more wells to enrich themselves.
The big gas miners are all foreign owned, they ship their eye watering profits offshore to avoid paying tax, they deviously sell OUR gas on the spot market for exorbitant prices but leave the domestic market wanting & paying above market prices. And, when all the fuss about gas becomes a distant memory, who will be left to manage those wells that poke holes right through our subterranean aquifers? It's not something that can be fixed.
Big gas wins at every turn & the Australian people & environment are shafted again & again, but we never learn. The days of gas are coming to an end. By 2030 gas MUST be gone if we are to survive & our children to have a chance. So any temptation to drink at the teats of international corporate gas companies must be rejected. Energy experts are clear that we have enough gas to get us to zero carbon. What we don't have is any real benefit from listening to the double speak of big gas. They don't care about us or anyone else for that matter. Please just leave that gas in the ground & invest in future energy technology instead.
regards,
Judy Buss

Judy Buss
****
NSW 2334

Bussell, Alison – Thursday, 11 August 2022 – 14:15:34

Subject	STOP Origins new Fracking Wells
From	Alison Bussell
Sent	8/11/2022 2:15:34 PM

If we want a decent and lovable life for our future generations it's time to STOP fracking in the Northern Territory.
Irresponsible short term political decisions are not keeping up with World standards seeking a cleaner, safer world.
Indigenous sites plus the land and underground water will be forever tainted if this fracking goes ahead.
Shame on anyone who allows Origin to continue using and wrecking our nation.

Alison Bussell
****
VIC 3000

Busuttil, Paul – Friday, 12 August 2022 – 15:08:55

Subject	Fracking
From	Paul Busuttil
Sent	8/12/2022 3:08:55 PM

This government is not making decisions in our best interests. If they cant stop Origin, then they need to get out of office/ we need to be able to remove them out of office.

Paul Busuttil
****
SA 5052

Butcher, John – Sunday, 14 August 2022 – 08:59:14

Subject	Stop Origins Fracking Plans
From	John Butcher
Sent	8/14/2022 8:59:14 AM

Hello,

My name is John Butcher and I'm writing to you to inform you of my disagreement with Origin Energy's plans for fracking in the Northern Territory.

I am against this proposal because of the damage it will cause to the environment in the NT and that the traditional owners are against it. Australia doesn't need more gas, it just needs what is already being extracted to be used more efficiently and fairly for Australians.

When do we stop giving lip service to the idea of listening to first nations people and actually start doing it. They don't want it, we should listen to them.

Thank you for your time.

Regards
John Butcher

John Butcher
****
VIC 3215

Butcher, Margaret – Thursday, 11 August 2022 – 14:04:45

Subject	Stop Origin's Fracking!!
From	Margaret Butcher
Sent	8/11/2022 2:04:45 PM

This has to stop. Apart from being disrespectful to the traditional owners, it is environmental vandalism.

Margaret Butcher
****
NSW 2449

Butcher, Nicole – Sunday, 14 August 2022 – 14:41:01

Subject	Stop fracking plans
From	Nicole Butcher
Sent	8/14/2022 2:41:01 PM

To the Northern Territory Department of Environment, Parks and Water Security, please stop Origin's plans to open twelve new fracking drills in the NT. This will have a horrific impact on our country, water and climate, and it shows unbelievable disrespect towards the Traditional Owners. Please support the things that matter to our people.

Nicole Butcher
****
VIC 3016

Butler, Gerald – Friday, 12 August 2022 – 14:44:08

Subject	Fracking
From	Gerald Butler
Sent	8/12/2022 2:44:08 PM

Where and when will the greed of the gas companies end? The Earth is suffering from rapid climate change and the scientists tell us it will get much worse. So, please, take your equipment and frack off.

gerald butler
****
QLD 4626

Butler, Judith – Saturday, 13 August 2022 – 21:42:01

Subject	Stop fracking!
From	Judith Butler
Sent	8/13/2022 9:42:01 PM

Origin's facking plans need to be stopped!
Surely we must know by now that forging ahead with "development" is fraught with problems. Maybe in the future fracking could be viable but it isn't at present and Origin has no serious plans to mitigate the harm it will do. We MUST put all available energy and resources into the continued development of renewable energy sources. The incredible progress already made in renewables despite years of denial and constraints from the Federal Government show us that even greater and faster development is possible with Federal Government action and support. The old argument that we need coal and gas because renewables aren't good enough is proving to be rubbish.
If we aren't able to listen to what the Aboriginal owners of the land want, or take the risks of fracking seriously, we must say no to fracking simply because it is an environmental hazard.

Judith Butler
****
VIC 3056

Butler, Keith – Sunday, 14 August 2022 – 23:10:41

Subject	Stop Origin's arigant plans to open new cracking driills
From	Keith Butler
Sent	8/14/2022 11:10:41 PM

Please listen to public opinion and protect our environment and that of your children!
Consider your reputation!
Sincerely, Keith Butler (retired)

Keith Butler
****
VIC 3199

Butt, Andy – Sunday, 14 August 2022 – 20:48:45

Subject	Origin please stop Fracking now.
From	Andy Butt
Sent	8/14/2022 8:48:45 PM

It’s well documented around the world how catastrophic Fracking is. Methane bubbling up into wild water ways. Aquifer systems destroyed.
Please look at renewables! Our food production put into a precarious dynamic. To put it simply, protect our ancient waterways and preserve our environment. It’s becoming a cliché, but find yourself on the right side of history. There are other ways to profit that preserve our environment. I urge you to stop Fracking endeavors now!

Andy butt
****
VIC 3792

Butt, Barbara – Sunday, 14 August 2022 – 23:28:22

Subject	Stop Origin's fracking plans
From	Barbara Butt
Sent	8/14/2022 11:28:22 PM

For some short term gain Origin is causing long term damage to the environment and increasing Australia's contribution to global warming.

Barbara Butt
****
NSW 2106

Byrne, Stella – Friday, 12 August 2022 – 18:17:25

Subject	Stop Origin's facking plans
From	Stella Byrne
Sent	8/12/2022 6:17:25 PM

To allow this would be to fly in the face of opposition from voters , native peoples and all intersted parties all over the world who are suffering from the ravages of climate change brought on by the release of yet more fossil fuels. It might also open the flood gates for yet more fracking corporations resulting in horrifying consequences to our water, cultural heritage and climate. I urge you to act responsibly on this issue and Ban further fracking by rejecting Origin's proposals.

Stella Byrne
****
NSW 2484

Byrnes, Mary – Saturday, 13 August 2022 – 15:51:07

Subject	Stop Origins Fracking Plans
From	Mary Byrnes
Sent	8/13/2022 3:51:07 PM

Do you ever learn ?? Our environment is in total collapse and you want to contribute more ???
A disgrace!!!!!!

Mary Byrnes
****
NSW 2430

Byron, Pam – Thursday, 11 August 2022 – 18:45:33

Subject	Origin's plan for 12 more fracking sites in NT
From	Pam Byron
Sent	8/11/2022 6:45:33 PM

To the Nortern Territory Parks and Water,
I am writing to voice my strong objection to Origins plans for 12 more fracking sites in the Northern Territory. Fracking is dangerous for the local people as it will poison our drinking water, and also deplete the water systems as well.It is als fatal for all local flora and fauna, and as this land belongs to the First Nation's People's, my indigenous heritage to the land and responsibility to care for the land for future generations is at total risk here. Fracking will damage and destroy the Nortern Territory beyond help so this MUST NOT be allowed to go ahead. I voice my strongest objections to Origin's plans.
Signed
Pam Byron

Pam Byron
****
SA 5238

C, Niamh – Monday, 15 August 2022 – 20:56:12

Subject	Submission on EPs 98 & 76
From	Niamh C
Sent	8/15/2022 8:56:12 PM

Please find attached my submission on EPs 98 & 76.

Thank you,
Niamh Charles

Attached Documents

15/8/22

My name is Niamh Charles and I am a resident of Katherine. I have worked and lived in this region for almost 10 years. I am a health professional, a parent and an active community member.

I am writing to you to raise my deep concerns with Origin Energy's Amungee NW Delineation Program Environmental Management Plan on EPs 98 & 76.

The scale of the proposed project is massive. It would release at least 535,651 tonnes of greenhouse gas emissions over a 3-year period and pose unacceptable risk to water security in our region.

Origin proposes to sell gas to the Macarthur River Mine. Their license only permits them to 'explore' for gas, not sell it. This and allowing them to keep their wells open for over 5 times what is usually required to test contravenes the government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper inquiry recommendations.

'Bending' these rules to allow Origin to sell gas without a production licence would set a grave precedent and undermine the integrity of our regulatory system and the NT Government.

Origin pretends that selling the gas will reduce the emissions from the project. This defies logic. The proposal carries a gigantic carbon footprint of over 2 million tonnes CO2-e. Most of these emissions would be 'scope 3' (from combusting the gas) rather than 'scope 1', so Origin can hand-ball the problem to someone else. The reality is that these emissions will still hurt the climate and they would still count towards the NT emissions targets.

The EMP does not adequately address the threat to 15 endangered species that may inhabit the area of proposed clearing. The project does not include any measure to monitor for the newly discovered endemic stygofauna (small invertebrates like shrimps which live in groundwater) which are also present in the project area.

Origin Energy want to drill and frack throughout the year, with the first two wells scheduled to be drilled over the 2022-2023 wet season. They avoid acknowledging the additional severe environmental risks their project poses in the wet season and the risks of flooding and wastewater overflow and contamination.

Origin Energy will need 430 million litres of water to drill and frack the 12 wells. The water stress in this region is obvious. Our ecosystems are not indestructible. This project and others of its type are threatening the fabric of the ecosystem on which life depends.

I trust that Minister Moss will consider this proposal rationally and ethically, with the children of the NT in mind. I ask Minister Moss to please refuse the EMP and refer the entire EMP to the EPA for a full EIS.

Thank you for taking the time to read my submission. I will follow the progress of this application with great interest.

Kind regards,

Niamh Charles

36 Cox Crescent, Katherine

niamhcharles@gmail.com

ph. 0460 745 607

Cabrall, Mary – Thursday, 11 August 2022 – 21:44:07

Subject	STOP Origin Fracking Plans
From	Mary Cabrall
Sent	8/11/2022 9:44:07 PM

Northern Territory Department of Environment Parks and Water Security
I write this email imploring you to safeguard Aboriginal land and cultural heritage sites from fracking by the Origin company.
Origin refuses to listen and adhere to Indigenous people who do not want their land poisoned and polluted.
Please stop Origin from fracking on Aboriginal territory
Thank you for your support
Sincerely
Mary Cabrall

Mary Cabrall
****
QLD 4870

Cadden, Anna – Saturday, 13 August 2022 – 15:45:49

Subject	Stop Origin's fracking plans
From	Anna Cadden
Sent	8/13/2022 3:45:49 PM

To the Northern Territory Department of Environment, Parks and Water Security.

My name is Anna Cadden and I have worked in the remote parts of Australia for over 20 years. I've watched rockholes, soakages and flood plains dry out with fresh water harder and harder to come by. I've seen communities sink more bores to try and access increasingly harder to find underground water sources.
Not only is the drain on water resources from fracking inexcusable, while communities drink boxed and freighted water. But the risk of contamination of clean and healthy water by fracking is a risk too far. Entire ecosystems full of biodiversity and life are threatened by Origin's plans.
We need to be sourcing renewable and fossil-free fuels for the health of the entire planet. That is obvious. So, it is also grossly obvious that the government is pandering to the corporate sector over the health and longevity of it's inhabitants.

Please listen to the Traditional Owners of this land. This land is sacred to them and in light of the Uluru Statement from the Heart... they need to be respected.

Yours sincerely,
Anna Cadden

Anna Cadden
****
NT 0870

Cadet, Janet – Sunday, 14 August 2022 – 15:13:42

Subject	Origin's Fracking Shame
From	Janet Cadet
Sent	8/14/2022 3:13:42 PM

I am writing in regard to Origin's attempt to be able to frack at will in parts of the Northern Territory. Origin is ignoring the process of consultation which would normally take place in these circumstances. It's time for all parties to recognise that the practice of large companies doing whatever best suits them is becoming redundant. People are realising that they have not benefited at all from the huge wealth being generated from selling Australia's resources and they're just as unhappy about the treatment of the Indigenous citizens with ties to the affected land. It's time for Origin to act like the admired global force it could be.

Northern Territory Dept of Environment, Parks and Water Security

Janet Cadet
****
NSW 2538

Cadwallader, Robyn – Saturday, 13 August 2022 – 14:36:49

Subject	I urge you to stop Origin's fracking plan
From	Robyn Cadwallader
Sent	8/13/2022 2:36:49 PM

To the Northern Territory Department of Environment, Parks and Water Security,
I am a writer. I live in New South Wales and I am writing to urge you not to give permission for Origin to begin further fracking in the Northern Territory.

At this time, especially, the federal Labor government is seeking to support first nations people and give them a voice. I hope you will stand behind the government and listen to the traditional owners of the threatened land in the Northern Territory, who have been trying to protect their land and water from the impact of fracking. It is time, as our prime minister has pointed out, to honour first nations people and listen to them.

It is time, also, to take notice of the urgent threat to our climate. The dangers from a changed climate and sea rise are so well documented, we cannot continue. There is no future for us if we ignore the dangers. I have six grandchildren, and I am filled with dread when I think of the dangerous future ahead for them.

Please, please show the country, and the power companies, that you are serious about protecting us all and honouring the rights of the land's traditional owners.

I hope to hear you will make a decision that is consistent with Labor's progressive values of justice for all.

yours sincerely

(Dr) Robyn Cadwallader

Robyn Cadwallader
****
NSW 2582

Cahill, Jenny – Saturday, 13 August 2022 – 15:34:24

Subject	Stop Fracking Plans
From	Jenny Cahill
Sent	8/13/2022 3:34:24 PM

My submission simply put is FRACKING IS ENVIRONMENTAL DISASTROUS . PLEASE RESPECT THE OWNERS OF THE LAND AND THE ENVIRONMENT AND STOP DEVELOPERS FROM GOING DOWN THIS PATHWAY

Jenny Cahill

jenny cahill
****
WA 6008

Cahill, Lucy – Sunday, 14 August 2022 – 14:41:07

Subject	Stop origin fracking in the NT
From	Lucy Cahill
Sent	8/14/2022 2:41:07 PM

To the NT gov
Please do enable Origin's rogue fracking in the NT.
We know fracking has huge consequences for the environment, people and communities.
Please consider banning fracking altogether and consider other more sustainable ways to generate energy and the economy.
Regards,
Lucy cahill

Lucy Cahill
****
VIC 3071

Cahn, Marilynne – Saturday, 13 August 2022 – 13:31:47

Subject	Reckless fracking not acceptable
From	Marilynne Cahn
Sent	8/13/2022 1:31:47 PM

It breaks my heart to see the disregard Origin has for the land and culture of our first people, their rights to the use of this water on this land and the disregard for this precious environment. Not to mention the greenhouse emissions and the effect on climate and pollution. It seems that there is no end corporations will go to for greed - the biggest addiction of our culture. Its time to look at what we're doing and use alternatives that do not harm life on earth or earth itself.

Fracking is destructive and risky - let's use alternative power sources available. Recommendations from the 2012 Pepper enquiry have not been implemented - this must be addressed.

Most importantly traditional owners do not want fracking on their lands, so I'm asking the Northern Territory department of environment to reject the fracking drills.

Marilynne Cahn
****
QLD 4567

Cairnes, Lorriane – Sunday, 14 August 2022 – 13:41:30

Subject	NO FRACKING IN THE NORTHERN TERRITORY - and REFUSE TO ORIGIN'S LATEST PROPOSAL FOR FRACKING
From	Lorriane Cairnes
Sent	8/14/2022 1:41:30 PM

To
Northern Territory Government

Origin Energy's proposed fracking program must be refused.

The damage it would do to water resources, Aboriginal country cultural values, and the contribution the gas which would be released and sold as a result of your approval would accelerate Climate Change, all mean that THIS PROPOSAL HAS NO PLACE IN THE NORTHERN TERRITORY.

PLEASE, JUST SAY "NO" TO ORIGIN.

Lorriane Cairnes
****
NSW 2068

Cairns, Yvonne – Monday, 15 August 2022 – 12:37:26

Subject	Stop Origin fracking in your state
From	Yvonne Cairns
Sent	8/15/2022 12:37:26 PM

Please DO NOT let corporate greed supersede the environment impact.

Yvonne Cairns
****
NSW 2106

Calandra, Luisa – Thursday, 11 August 2022 – 22:48:51

Subject	Yes stop Origin Fracking.
From	Luisa Calandra
Sent	8/11/2022 10:48:51 PM

Do you really agree or want this hideous practice to continue causing ecological damage for the sake of monetary gain?

Luisa Calandra
****
VIC 3101

Calcagno, Jikara – Friday, 12 August 2022 – 14:11:00

Subject	Stop Origin's fracking plans
From	Jikara Calcagno
Sent	8/12/2022 2:11:00 PM

Dear members of the Department of Environment, Parks and Water Security

I work for Telstra in Compliance and live in FNQ. I wanted to provide a submission because I am concerned that Origin are trying to bypass processes and most importantly Traditional Owners are not being consulted with respect to opening 12 new fracking drills in the NT.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

Please help to stop Origin's fracking plans! We need to listen to our Traditional Owners who have protected and safeguarded our lands for thousands of years.

Yours sincerely
Jikara Calcagno

Jikara Calcagno
****
QLD 4870

Caldwell, Jane – Friday, 12 August 2022 – 17:41:01

Subject	Fracking in the NT
From	Jane Caldwell
Sent	8/12/2022 5:41:01 PM

To: Northern Territory Department of Environment, Parks and Water Security.

I have long been concerned about environmental issues and my father spent a great deal of time and effort during his life to save land in the city for public use and preservation as national parks.

Fracking has been disputed over many years, and serious concerns of the environmental damage have been legitimately raised by scientists, farmers and Traditional Owners alike.

Of particular concern is damage and pollution of the water table. Once the water table is damaged, this cannot be reversed. Water is a scarce and precious resource in Australia, more so in these times of climate change which has already disrupted our weather patterns, increasing drought across our country.

I understand specific processes and environmental requirements are needed for fracking to be approved, and that Origin Energy have not complied with environmental impact requirements from the Pepper Enquiry. Despite this, they have already started exploratory works and plan to sell gas without a Production Licence, which is an unacceptable over-reach.

Quite frankly, I am very sick of big fossil fuel companies getting government funding and short cuts through environmental and community concerns. The NT Government should uphold the integrity of their regulatory system and not page the way for other companies to frack without care or mitigation of environment and community risks and impacts.

This is our country, and we need to be pouring investment into sustainable and renewable energy generation, not more gas or other fossil fuels. We need to be preserving the country we have, helping to reduce the effects of climate change, not causing more issues and endangering the precious water needed by remote communities, as well as wildlife.

I am therefore requesting the Department reject Origin's EMP.

Regards,
Jane

Jane Caldwell
****
NSW 2039

Caley, John – Friday, 12 August 2022 – 16:24:10

Subject	Stop Origins fracking plans
From	John Caley
Sent	8/12/2022 4:24:10 PM

Attention: Northern Territory's Department of Environment, Parks and Water Security

I am a parent of three from Newtown Sydney. Ten years ago we made a took a memorable 6 months to drive around around Australia, spending most of that time in all the wonderful country of the Northern Territory and Western Australia.
Allowing Origin to conduct fracking and extraction of shale gas would be a mistake and wrong for several reasons.
- it will create an ongoing source of fugitive methane emissions.
Studies have shown these to be much higher in similar unconventional gas fields than claimed by the gas field developers and operators. Methane is in the order of 50 times more potent greenhouse gas than carbon dioxide
- Fracking and extracting shale gas requires the use and pollution of huge volumes of water which then needs to be stored somewhere in large dams. The planned trucking of this water interstate will generate further greenhouse emissions.
- The process of fracking the shale involves pumping chemicals and water down wells. This cannot be undone. The legacy of poisoned fractured rock will be there forever.

In summary, I urge the Department to reject Origins Environment Management Plan (EMP)

John Caley
****
NSW 2042

Callan, Phil – Sunday, 14 August 2022 – 18:55:47

Subject	Stop Origins fracking
From	Phil Callan
Sent	8/14/2022 6:55:47 PM

To the Northern Territory department of environment parks and water security I demand the NT Government stop Origin's reckless fracking plans which threaten water, cultural heritage, and our climate.

phil callan
****
QLD 4030

Cameron, Alma – Sunday, 14 August 2022 – 17:11:46

Subject	Fracking is unacceptable
From	Alma Cameron
Sent	8/14/2022 5:11:46 PM

TO The Northern Department of Environment,Parks and Water Security; please be aware of the Department's responsibility to secure the health of the environment which includes water,air,and all living things,including human beings and their culture. Being a grandmother I am particularly concerned for the future of my children. Thank you for your attention.

Alma Cameron
****
NSW 2447

Cameron, Jim – Sunday, 14 August 2022 – 12:02:04

Subject	Stop ORIGIN'S destructive plans in NT.
From	Jim Cameron
Sent	8/14/2022 12:02:04 PM

To Department of Environment, Parks and Water Security.
I find it distressing that there are places where Origin has begun the fracking process already without completing the approval process.

This simply illustrates that Origin is showing its disregard for the NT Government this Department as well as the objections from the Indigenous communities and elders. Origin also is ignoring the destructive consequences of its actions and plans.
For the sake of all the local people and the good of the Land, please put a definitive stop to Origin's destructive plans and activities that just shows their greed and disrespect for people, the Land, and the climate.

Jim Cameron

Jim Cameron
****
QLD 4825

Cameron, Jo – Friday, 12 August 2022 – 17:18:37

Subject	Origin’s fracking plans
From	Jo Cameron
Sent	8/12/2022 5:18:37 PM

I am writing to express my concern that the NT Government may allow fracking when the traditional owners of the land have unequivocally said no.
New wells will add to global warming and climate change.
Origin would need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.
Sincerely
Jo Cameron.

Jo Cameron
****
NSW 2158

Cameron, Katherine – Sunday, 14 August 2022 – 16:14:08

Subject	Stop new fracking in the NT
From	Katherine Cameron
Sent	8/14/2022 4:14:08 PM

To the Northern Territory Department of Environment, Parks and Water Security,
as an Australian citizen concerned for the future of country, water and climate I am writing my submission for you NOT to consent to requests for exploratory drilling and fracking on the Amungee Mungee pastoral station. Such projects put in jeopardy
Australia's water, cultural heritage, climate and leave a damaged country for our grandchildren to live with.
Yours sincerely,
Katherine Cameron
Bathurst NSW

Katherine Cameron
****
NSW 2795

Cameron, Mary – Saturday, 13 August 2022 – 14:24:24

Subject	Stop Origin's Fracking Plans
From	Mary Cameron
Sent	8/13/2022 2:24:24 PM

I write to strongly object to Origin or anyone else opening fracking drills in the Northern Territory. Not only does this plan threaten cultural heritage and water but it is imperative that our threatened world climate is not further damaged by mining. Its a no brainer that this should not go ahead.

Mary Cameron
****
NSW 2782

Campbell, Carolyn – Sunday, 14 August 2022 – 16:09:05

Subject	ccarolyn377@gmail.com
From	Carolyn Campbell
Sent	8/14/2022 4:09:05 PM

My name is Carolyn Campbell I am a social worker, my concern over the damage we do our planet is very high. We need a commitment right now to no more fracking in the NT or anywhere else in Australia. It is imperative that all governments place the environment above subservience to the economic demands of corporations. This is a near and present danger. Please respond in a way that prioritises people over profits, sincerely Carolyn Campbell

Carolyn Campbell
****
NSW 2018

Campbell, George – Sunday, 14 August 2022 – 22:59:08

Subject	Reject Origin Energy's EMP
From	George Campbell
Sent	8/14/2022 10:59:08 PM

Hello, my name is George Campbell. I'm an Australian citizen, from Brisbane.
I refuse the idea that expanding the petroleum product market is a necessary part of the future of Australia. All over every source of information I trust, every scientific based report or news article, every source that is willing to cite their internal biases and lend themselves to the freedom of expression of ideas in a democracy, I see the same thing. That fossil fuels are obliterating the planet.
I see the same thing about Teflon, about the carbon emissions related to steel production, to individualistic living habits, to the dogma of exponential economic growth and to commercial fishing operations.

I am not a resilient enough person to become a climate scientist. I have considered the career path, but I do not contain the internal optimism that it appears to require. I have not seen a wholly positive climate science article without a multitude of asterisks in my lifetime.

The next best thing I can do is write emails like this and talk to people, about what is going on.

The twelve exploratory fracking wells are estimated to use 430 million liters of water to operate. This water is sourced from the aquifers underneath the land, which will cause even more disruption to natural processes.
Wastewater - which is toxic after use for fracking, is also a concern of mine. I am not sure of the capacity of our road trains, but 90 million liters of water seems like a lot (a wasteful, dangerous amount) to be moving over 1000km.

There is so much misinformation about the fossil fuel business out there, from the 'renewable gas' campaign launched by AGL, to the whole of the United Australia Party's last political campaign, to the easily shareable clip of Morrison's coal debacle, it is difficult to know what is right. This does not mean it is impossible to see what is wrong.

The First Nation's people of the Northern Territory have relied on the underground waterways and healthy environments of these lands for tens of thousands of years. The experts of sustainability are obviously them, but the goals of fossil fuel corporations fundamentally cannot align with sustainability.
The midground between these two ideals is dangerous and may only result in 50 more years of a planet that is habitable, or the legal and cultural prosecuting and shunning of the First Nation's people's ideologies and epistemologies (as has been seen countless times in Australian history).

Renewables are expensive, both climatically and financially, as they still use technologies such as steel, carbides, battery production, silicon cell production, turbine production and more, which still wreak havoc on the planet. But compared to direct fossil fuel use for energy through burning, it is clear to me that this is the way in which Australia must progress.

The world banned CFC's, and the Northern Territory banned fracking - but unfortunately it's going to have to do it again.

I am requesting that the Northern Territory government rejects Origin Mining's Environment Management Plan.

George Campbell
****
QLD 4034

Campbell, Margaret – Saturday, 13 August 2022 – 16:18:30

Subject	Origin's fracking plans
From	Margaret Campbell
Sent	8/13/2022 4:18:30 PM

Thjis is madness on such fragile land with so little and ever diminishing water. WE are drenched in sunshine- fracking is unpardonable

Margaret Campbell
****
WA 6163

Campbell, Nicholas – Friday, 12 August 2022 – 10:19:33

Subject	stop origins fracking plans
From	Nicholas Campbell
Sent	8/12/2022 10:19:33 AM

How can any sane person consider environment damaging process like fracking in a climate changing world!! Unbelievable ! Stop it now!

Nick Campbell

Nicholas Campbell
****
NT 0820

Cannon, Marianne – Thursday, 11 August 2022 – 14:47:10

Subject	fracking NT by origin
From	Marianne Cannon
Sent	8/11/2022 2:47:10 PM

TO NT Dept of Environment , Parks and Water security : as a doctor I am alarmed at the lack of understanding re tipping points of biosystem failure (leading to to rapid and irreversible decline of the system) and its direct connection to fossil fuel mining .It seems reckless to "play chicken" with the laws of physics , putting short term mining profit ahead of human well-being .In addition as a frequent traveller (for work and travel) to NT I have direct interest in the preservation of its beauty and am aware of the obligations we have to traditional owners as well as Territorians and other Australians who find the NT majestic and spiritual .LAsly its appears that Origin have not met the conditions of the recommendations of the 2018 enquiry , and this would appear to a be a reckless race to favour mining interests ahead of EVERYONE else's , including the next generation of Australians . II can only imagine this will break the trust with traditional (and other concerned parties) proving that a blanket "no fracking " policy was indeed necessary to protect country , and its legacy to our descendants .

Marianne Cannon
****
VIC 3054

Cannon, Michelle – Thursday, 11 August 2022 – 17:25:19

Subject	Origin's fracking plans
From	Michelle Cannon
Sent	8/11/2022 5:25:19 PM

To the Northern Territory's dept of Environment, Parks and Water security.
I am writing to you as a concerned Australian about the Fracking plans by the Origin Energy. While I have never lived in the NT one of my best friends is from there, whenever she talks about taking me with her to visit she always has only the best things to say about the wild areas and nature there.
However with Origin planning on opening not 1 or 2 but Twelve new fracking wells it is putting the NT on the fast track to being ruined.
Fracking requires enormous amounts of water, potentially 430 million litres, which is then unable to be used for anything else, resulting water is so contaminated it counts as a biological hazard. This is assuming that Origin is better able to control then any other corporation which has used fracking as there are countless instances of this tainted water escaping into existing water channels where it can poison animals, plants and people. The 9 million litres of waste water will then need to be trucked interstate, risking this waste water being spilled over interstate lines.
All this to damage to your land being done only to prop up a dying industry. Instead of investing in renewables these wells will be used to continue digging for the lasts scraps of fossil fuels, estimated to produce 2 million tonnes of emissions.

It's past time something was done to stop this kind of wasteful stripping of the land. Take a stand and reject Origin's EMP

Kind regards

Michelle Cannon
****
VIC 3196

Canny, Sher – Saturday, 13 August 2022 – 12:45:53

Subject	Stop Origins Fracking Plans
From	Sher Canny
Sent	8/13/2022 12:45:53 PM

Oh please don't allow any risk to the water supply in the Northern Territory. Origin:s fracking could cause serious damage. Check the effect on water in the USA. Plenty of reports on the damage there with water becoming inflammable. We have to be smarter than this. No good looking back on the damage down the track as Origin won't care and Australia will be left with the cost... yet again. Let's stop letting big corporations damaging our country and get away with it. It's our country, let's do the best for it and prosper.

sher canny
****
NSW 2090

Card, John – Friday, 12 August 2022 – 10:31:51

Subject	No fracking by Origin in the NT.
From	John Card
Sent	8/12/2022 10:31:51 AM

Respect Traditional Owners determination to resist fracking on their country. They fear threats to their cultural values, water and climate. These are valid fears; do not bring them to fruition.

John Card
****
TAS 7216

Carfoot, Terri – Sunday, 14 August 2022 – 06:16:43

Subject	Please stop Origin fracking in N.T.
From	Terri Carfoot
Sent	8/14/2022 6:16:43 AM

To the Northern Territory Department of Environment and Water Security,
Today am putting in a submission to please stop Origin fracking N.T. My name is Terri Carfoot from Stanmore Qld 4514 and I feel we must stop the fracking in the Northern Territory as it will destroy country, water and our climate and would be setting a terrible precedent for other fracking corporations to do the same! We are backing the Traditional Owners by lodging this submission as it is them who will suffer the consequences of the contamination of the water! It is time to be transitioning to renewables and there is certainly enough sunshine in the Northern Territory, please get on the right side of history, this planet belongs to all of us not the big corporations! Thank you. Yours Terri Carfoot

Terri Carfoot
****
QLD 4514

Carr, Brian – Friday, 12 August 2022 – 15:19:55

Subject	Stop Origin from fracking in the Northern Territory
From	Brian Carr
Sent	8/12/2022 3:19:55 PM

Dear Minister
I have four grandchildren and I want them to live in a world where they can enjoy a safe climate. If the Australian and Northern Territory governments allow more fracking and mining of Australian land the climate will suffer and the people of Australia will be threatened. The IPCC report makes this very clear that we have a limited time to attack climate change and we are getting to a perilous stage. We must stop the mining and fracking of fossil fuels if we are to survive in a safe climate.
The NT Government must not approve these plans by Origin Energy. There are many renewable ways to create energy and jobs for the future that do not create a wasteland and destroy the climate. Please think of our children and grandchildren's futures.
Yours sincerely

Brian Carr
****
ACT 2605

Carroll, Karyn – Sunday, 14 August 2022 – 12:39:45

Subject	karyncarroll29@gmail.com
From	Karyn Carroll
Sent	8/14/2022 12:39:45 PM

To The Northern Territory parks and water.
I'm very much against fracking our environment both for aboriginal cultural reasons and also the effects on our climate.
The science is very clear that gas extraction must end.The mining companies do not even pay sufficient tax to us.
This is bad whichever way you look at it and I can't believe you are even considering approval of this gas fracking proposal.
Stop

Karyn Carroll

Karyn Carroll
****
VIC 3044

Carroll, Martin – Thursday, 11 August 2022 – 14:23:00

Subject	Fracking is unneeded
From	Martin Carroll
Sent	8/11/2022 2:23:00 PM

Hello,
We do not need to be poisoning the environment fracking for gas.
I saw a documentary on the CSIRO on SBS in 2004.
They demonstrated a solar reflector array they created. They said that could power ALL of Australia with a 50klm grid of these reflectors. They said they could power the entire planet with a 1000klm grid.
The interviewer asked about how to store the power. They said they solved that easily. They said they used ammonia. They apply the heat to the ammonia and it breaks down into 2 chemicals. They mix the 2 chemicals back together and get back the heat and the ammonia. Hey presto, a battery.
Why are we not doing this now?
I might add that I read about an American who set up a company here in Australia in about 2004. I saw his website and it was very professional and well thought out. He was going to use similar technology to power Australia first and then the entire world. The Howard government's response? They deported him on a technicality and shut his company down.

Additionally, the excuse of needing gas for fertilizer is phoney. There are other ways to create fertilizer without using gas.
Electroculture produces better plan growth without needing any fertilizer or pesticides.

Martin Carroll
****
QLD 4220

Carroll, Tim – Saturday, 13 August 2022 – 08:12:57

Subject	Stop Origin's Fracking plans
From	Tim Carroll
Sent	8/13/2022 8:12:57 AM

Dear Minister,
I believe that it is time to deny Origin energy another opportunity to recklessly open 12 new fracking wells.
These wells have been proved to endanger ground water as well as upset traditional owners who have not consented to them being on their land.
Please help fulfill your government's own policy by denying these new gas wells.
Tim Carroll

tim carroll
****
NSW 2193

Carsen, Michelle – Saturday, 13 August 2022 – 14:12:08

Subject	Origin's fracking plans
From	Michelle Carsen
Sent	8/13/2022 2:12:08 PM

To Northern Territory Department of Environment, Parks and Water Security

My name is Michelle Carsen, I live in Melbourne and I am writing to you with concern about Origin Energy's fracking plans on the Amungee Mungee pastoral station.

I understand that Origin are wanting to open twelve new fracking drills in the absence of all the recommendations from the Pepper enquiry being implemented, which were supposed to be the pre-conditions for the moratorium on fracking being lifted. For example, they have no plans to manage the wastewater and the scope 1 GHG emissions expected exceed the emissions from the whole of Alice Springs. This would undermine the integrity of the regulatory system.

Critically, the Traditional Owners do not want this to proceed and I stand with them in asking you to reject Origin's plans. It will set a precedent that cannot be undone and with global warming continuing apace these additional emissions cannot be allowed to be created.

I appreciate you taking the time to read my submission
Yours sincerely
Michelle Carsen

Michelle Carsen
****
VIC 3013

Carson, Adam – Sunday, 14 August 2022 – 14:05:36

Subject	Stop Origin's fracking plans
From	Adam Carson
Sent	8/14/2022 2:05:36 PM

Dear NT Department of Environment, Parks and Water Security

I am writing in order to urge you to reject Origin's fracking plans. For Australia especially, where we will be among the countries hit hardest by climate change and where we are all too familiar with water shortages and can't risk contamination of aquifers, we need to keep carbon in the ground and keep fracking water out of it.

Thanks for your time,

Adam

Adam Carson
****
SA 5155

Carter, Jacinta – Saturday, 13 August 2022 – 10:49:25

Subject	Stop Origin's Fracking Plans
From	Jacinta Carter
Sent	8/13/2022 10:49:25 AM

To the Northern Territory Department of Environment, Parks and Water Security,

I am 16 years old and from Victoria. I am writing to ask that you do not approve Origin's plans to open twelve new fracking drills in the Northern Territory. It is not right to damage the land of Aboriginal people and it is not right to destroy the climate because that also destroys my future. I am scared of what this could do to my future. Please do not let it happen.

From Jacinta.

Jacinta Carter
****
VIC 3797

Carter, Leigh – Sunday, 14 August 2022 – 16:19:38

Subject	Stop Fracking up the NT
From	Leigh Carter
Sent	8/14/2022 4:19:38 PM

To whom it may concern,

I'll make this short and sweet, we need the water in the ground to remain drinkable, Traditional Owners have gone to great lengths to maintain the land, the ecosystem and the water. Listen to Traditional owners, don't ruin in a minute what they have given lifetimes to maintain, because we will never get it back. Tell Origin NO, their profits are not more important than our land, their greed is not worth the ruination of lifetimes of work by those who know and have loved this land for thousands of years.

Kind regards,
Leigh E Carter

Leigh Carter
****
SA 5606

Carver, Jennifer – Saturday, 13 August 2022 – 19:01:48

Subject	Stop Origin's fracking plans
From	Jennifer Carver
Sent	8/13/2022 7:01:48 PM

It is a disgrace that Origin plan to interfere with saving our planet. Do not allow this! Jenny Carver 8

Jennifer Carver
****
VIC 3500

Casey, Susan – Friday, 12 August 2022 – 06:13:53

Subject	stop Origin's fracking
From	Susan Casey
Sent	8/12/2022 6:13:53 AM

Northern Territory Department of Water and the environment

Stop all fracking by Origin immediately. I fear for indigenous country, damage to waterways and there has been no government control or very little indigenous consultation

Susan Casey
****
VIC 3844

Cashman, Tony – Saturday, 13 August 2022 – 22:02:34

Subject	Fracking in the Northern Territory
From	Tony Cashman
Sent	8/13/2022 10:02:34 PM

ATTN: Northern Territory Department of Environment Parks and Water Security
We would like to add our voices in opposition to the planned fracking in the Northern Territory by Origin.
It is an established fact that fracking destroys the countryside with devastating effects on water tables, the land and ultimately climate change, not to mention it is against the wishes and advice of the local indigenous community. These project applications should be summarily dismissed.
Origin Energy is thumbing their nose at the Australian people and has only profit in mind.
How much more evidence do we need to see the harmful effects that fracking can have?
We humbly request that you do not approve these applications in the best interest of all Australians.
Carol and Tony Cashman

Tony Cashman
****
NSW 2230

Cassells, Colin – Thursday, 11 August 2022 – 21:11:32

Subject	Stop Origin's fracking plans
From	Colin Cassells
Sent	8/11/2022 9:11:32 PM

I am a father of 2 (now adults), and a nurse. These perspectives fuel a keen interest in humanity, and the environment in which we live, grow and prosper.
I understand that Origin, one of the biggest players in the fracking industry, already have multiple ‘explanatory’ wells in the Northern Territory, and have plans to develop perhaps 12 more.
In Australia, gas companies have not been good corporate citizens, paying inadequate or no royalties, paying inadequate or no tax, despite making literally billions from sales of gas. Origin seems to be further corrupting its corporate citizenship through what I understand is their intention to sell gas recovered from ‘exploratory’ wells, without a ‘production’ license for these wells.
I understand that the full impact of the wells will include the creation of over 2 million tonnes of emissions. This is an enormous contribution to furthering the damages of climate change in Australia and elsewhere.
I understand that Origin will need 430 million litres of water to drill and frack the 12 wells in their proposal. This water could be productively used elsewhere on the world’s driest continent, particularly when First Nations communities are lacking reliable sources of clean water.
I understand that the NT moratorium on fracking was lifted on the condition that the recommendations of the Pepper Inquiry. I read that the not all of these recommendations (one quarter of them) have been met.
I understand that Origin’s exploration and appraisal manager said in May 2022 that they have no plans to manage toxic wastewater. Although plans to truck 90 million litres of water interstate (Where? How will the waste water be managed?), there are no plans to manage contamination of the water supplies that First Nations communities rely on.
Given the harm that Origin’s proposal will bring to Australia, and disregard Origin shows for the conditions under which they conduct their operations, I ask that you reject Origin’s proposal to ‘frack’ for gas in the Northern Territory.

Colin Cassells
****
VIC 3111

Cato, Wendy – Saturday, 13 August 2022 – 15:11:42

Subject	No more fracking
From	Wendy Cato
Sent	8/13/2022 3:11:42 PM

Northern Territory Government.
This is not the way forward. Origin you must put your energy into renewable energy. We need to save our environment, not destroy it. No more extracting from the ground. Listen to our traditional owners, listen to Australians. We want our earth saved not destroyed.

Wendy Cato
****
VIC 3134

Catt, Ivor – Friday, 12 August 2022 – 15:29:27

Subject	fracking is antl humanity.
From	Ivor Catt
Sent	8/12/2022 3:29:27 PM

Fracking makes no sense, please do not pursue this obsolete process in Australia, permission must not be given for any fracking of non renewable energy sources.
Yours sincerely

Ivor catt.

Ivor Catt
****
WA 6320

Cattunar, Barbara – Friday, 12 August 2022 – 18:43:27

Subject	barcatt@bigpond.com
From	Barbara Cattunar
Sent	8/12/2022 6:43:27 PM

How much evidence does Origin need to understand that their greed for money-making wells are for short=term profits are morally, environmentally and ideally wrong?

Barbara cattunar
****
NSW 2500

Caulfield, Robyn – Friday, 12 August 2022 – 09:14:29

Subject	Stop fracking
From	Robyn Caulfield
Sent	8/12/2022 9:14:29 AM

Please keep looking for less harmful ways to sustain our world for our grandchildren.

robyn caulfield
****
VIC 3071

Cazalet, Deb – Friday, 12 August 2022 – 07:51:45

Subject	Stop Origins fracking plans
From	Deb Cazalet
Sent	8/12/2022 7:51:45 AM

Please do the right thing. Take the long view and find other long term solutions that are not so harmful to the environment or cultural heritage of our first nations people.
Thank you

deb cazalet
****
VIC 3451

Cetois, Audrey – Thursday, 11 August 2022 – 15:53:00

Subject	No more fossil fuel projects, that measn stopping Origin in the NT
From	Audrey Cetois
Sent	8/11/2022 3:53:00 PM

To the Northern Territory's Department of Environment, Parks and Water Security.

I am a citizen of Australia, I live in Queensland. Any fossil fuel project going forward from this point onwards is inconsistent with the science of climate change. This message has been clearly laid out in the various IPCC reports published in 2021 and 2022.
Further exploration or development of gas fields in the NT by whichever company, including Origin is criminal. It will harm the people of the NT, the people of Australia and the people of the world, for generations to come.

The NT Scientific inquiry into Hydraulic Fracturing was clear, the project cannot demonstrate their neutrality in terms of emissions, they should not go ahead. There were 135 recommendations made by the inquiry, and they, for the most part, have not been implemented.

And above all, traditional owners do not want this project on their land. That should be it. They are acting as custodians for current and future generations. They are the one acting responsibly.

As the climate emergency unfolds, the fingers will be pointed at ineffective leaders and institutions who failed to understand their responsibility and to grasp the consequences of their actions.

Stop Origin. Stop all new fossil fuel projects. That's in agreement with science. That's the wish of the land custodians. That's the right thing to do.

Audrey Cetois
****
QLD 4005

Chadwick, Jenny – Sunday, 14 August 2022 – 15:35:52

Subject	We say NO to Origin opening twelve new fracking drills in the NT
From	Jenny Chadwick
Sent	8/14/2022 3:35:52 PM

We stand with the Traditional owners to say NO to Origin opening twelve new fracking drills in the Northern Territory.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Fracking needs copious amounts of water for its operation, so not only will the Traditional Owners lose their water, but fracking will also threaten their cultural heritage, which they have been defending for years.

People are more important than the profits of companies, so I demand the Northern Territory Government not approve these plans.

Jenny Chadwick
****
NSW 2779

Chalmers, Robyn – Sunday, 14 August 2022 – 09:11:34

Subject	Our Artesian Water is too important to let Origin Frack with it
From	Robyn Chalmers
Sent	8/14/2022 9:11:34 AM

Northern Territory Department of Parks and Water Security.
I used to visit a cattle station called Innaminka north of Broken Hill which had lots of Artesian Water, that was how the cattle were watered.
This cattle Station is closed now - mines and other situations have taken the water.

Don't let ORIGIN Frack in NT and destroy country, water and our climate.

The Traditional owners don't want ORIGIN to do this. So please STOP ORIGIN
Robyn Chalmers

Robyn Chalmers
****
NSW 2264

Chamberlain, Julie – Saturday, 13 August 2022 – 15:07:00

Subject	Approach with care
From	Julie Chamberlain
Sent	8/13/2022 3:07:00 PM

Origin's EMP is not worthy of the fairness we as Australians are so proud of. It makes me depressed to see the continuation of the destructive sense of entitlement demonstrated by the practice of fracking. At least a modicum of care should be exercised for the common good. And if altruism is not your thing, does it even make practical sense for the future, to damage the land and climate that supports so much life now, not to mention those who come after us? Please, please, I respectfully ask you to reject Origin's EMP.

julie chamberlain
****
NSW 2780

Chambers, Kirsty – Sunday, 14 August 2022 – 09:58:33

Subject	Stop Origins fracking in Australia
From	Kirsty Chambers
Sent	8/14/2022 9:58:33 AM

Why is this allowed to happen without government or locals approval.
Please stop this fracking from occurring

kirsty chambers
****
WA 6076

Chandler, Fleur – Friday, 12 August 2022 – 06:51:15

Subject	Stop Origin's Fracking Plans
From	Fleur Chandler
Sent	8/12/2022 6:51:15 AM

To Northern Territory Department of Environment, Parks, and Water Security.
I am deeply concerned that Origin, or for that matter, any company that tries to damage Australia's, (& Australians') water, our country, our cultural heritage, and our climate.
Our way of life, depends on you.... Short term Money as opposed to clean water for the people. This simply must not happen. I'm appauled that it is even being considered.
Traditional owners have been against this from the beginning, because it is destroying land and lives where ever it has been allowed.
Please, please, ensure the safety of our children for generations to come.
I implore you.
Sincerely,
Fleur Chandler

Fleur Chandler
****
QLD 4272

Chandler, Kerrie – Sunday, 14 August 2022 – 08:03:29

Subject	Stop Origins Fracking Plans NOW
From	Kerrie Chandler
Sent	8/14/2022 8:03:29 AM

To the Northern Territory Deptment of Environment,
I am a concerned Australian Citizen, living in Golden Beach, Qld. Good morning, my name is Kerrie Chandler and I am 57 years of age.
I am wring this submission because I have noticed on the news and some of the news feeds on Social Media t that the Traditional Owners are so staunchly defending their counrty at the moment. The avalance from mining companies eagerly eyeing off how to DESTROY their sacred country is appauling.
I am of the understanding that Origin Energy has been one of the biggest players in the fracking industry for decades, which is far too long and already have a few "exploratory" fracking wells in the NT!!!! How on earth do the small Aboriginal Communities make a stand against such rich giants!!!!
Having visited Daly Waters and travelled extensively in the Northern Territory, its natural beauty and amazing water holes, some of which produce bubbling hot water from the earth.

It has come to my attention that Origin Energy want drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

I am asking the Department to reject Origin's EMP. Our fragile Climate is already under so much pressure and the Environment is screaming out for REAL leadership and to make a stand.
Today, I stand with the Traditional Custodians of Country.

Kerrie Chandler
****
WA 6058

Chapman, Faye – Friday, 12 August 2022 – 22:00:43

Subject	Stop Origin's fracking plans
From	Faye Chapman
Sent	8/12/2022 10:00:43 PM

To the Northern Territory government,
I am a 71year old resident in Melbourne. I have only visited the Northern Territory 3 times. However, I have enough knowledge to understand that it is wrong for a powerful company to destroy land on which Australia's first people have lived and cared for for over 40,000 years.
There are many reasons to reject Origin's plans. Firstly, it is Aboriginal land, not Origin's. Secondly, it is likely to have a negative impact on water supplies. Thirdly, the gas which is released and burnt will add to Climate Change which threatens younger people's very existence. What right do our generation have to rob them of a future, especially when we have had the opportunity to enjoy our beautiful environment?
Please reject Origin's plans.
Put people ahead of profit for the few

Faye Chapman
****
VIC 3136

Chapman, John – Friday, 12 August 2022 – 15:52:21

Subject	Origin Energy, Fracking
From	John Chapman
Sent	8/12/2022 3:52:21 PM

The Director, Northern Territory, Dept. of the Environment.
As a medical scientistI am convinced that Climate Heating has already reached a crisis point and drastic action is required globally to limit emissions of warming gases. There is no ethical justification for new gas developments. I beg you to withhold any approvals.
Yours sincerely, John Chapman

john chapman
****
NSW 2516

Chapman, Linda – Thursday, 11 August 2022 – 14:16:45

Subject	Stop Origins Fracking Plans!!!!
From	Linda Chapman
Sent	8/11/2022 2:16:45 PM

I am writing this because of my complete and utter amazement that any fossil fuel mining for use on this planet is complete and total insanity! We have very little time left IF ANY to stop the horror of the effects of an over carbonated atmosphere NOW..its happening NOW and it will only get worse!!!!!! There is no stopping the effects once the balance is tipped where the earth's climate management 'engine' is beyond her ability to cope. Loss of forests..warming oceans...melting ice caps..warmed soil incapable of 'retaining' its stored carbon...warming peat bogs (they store huge amounts of carbon)..all of these and many many more side effects from global warming are going to happen and cause grief and suffering that is unimaginable...all because of burning fossil fuels which harbor millions of years of stored carbon. We must do everything in our power to stop fossil fuel use NOW...please reject Origins greedy plans to frack ANYWHERE..no more fracking...mining of coal and oil...NO MORE FOSSIL FUELS..or it will be...THE END.

Linda Chapman
****
NSW 2480

Chapman, Trevor – Thursday, 11 August 2022 – 15:46:35

Subject	No fracking in Australia.
From	Trevor Chapman
Sent	8/11/2022 3:46:35 PM

Having lived and travelled throughout the Northern Territory I know how unique these areas are. Fracking in the USA has caused catastrophic damage and will do the same wherever it is allowed to occur. We need to focus on renewable energy sources and reduce the impact we are causing. The traditional owners have made their opposition to these projects very clear Their concerns for country and their objections should be respected.

trevor chapman
****
WA 6330

Chapple, Robin – Saturday, 13 August 2022 – 19:43:36

Subject	Submission to stop Origin's fracking plans
From	Robin Chapple
Sent	8/13/2022 7:43:36 PM

To the Northern Territory Department of Environment, Parks and Water Security,

Fracking companies must be stopped! Origin's fracking plans threaten water, cultural heritage and climate.

Protecting First Nations sacred sites and culture is important, and Origin has been destroying these and ignoring Traditional Owners for too long. Subsidies for greedy frackers should inseat be used to empower the remote communities on the ground.

Fracking is a dirty, polluting process and threatens our pristine waters.

The gas produced is not a renewable energy source, so has a detrimental impact on the climate.

If these plans are approved they are not only destructive in themselves, but it would also set a horrifying precedent for other fracking companies to do the same.

Yours sincerely,
Robin Chapple.
2602

Robin Chapple
****
ACT 2602

Charles, Laurie – Saturday, 13 August 2022 – 10:20:17

Subject	Stop Origins Fracking Plans
From	Laurie Charles
Sent	8/13/2022 10:20:17 AM

This is absolute Bullshit and you arseholes know it.... How much are you lot being paid to let this thru..... Fracking DESTROYS THE WATER TABLE and this ha been scientifically proven..... if you allow this to go thru then when the shit hits the fan (AND IT WILL) you will be charged with the appropriate offences even if you have left office.... IT WILL HAPPEN

Laurie Charles
****
QLD 4165

Charleston, Beth – Sunday, 14 August 2022 – 14:44:47

Subject	Stop fracking !
From	Beth Charleston
Sent	8/14/2022 2:44:47 PM

To the Northern Territory Department of Environment, Parks and Water Security,
I write to you in horror at the thought that you think fracking will not pose any threat to the fragile and beautiful landscape of the Northern Territory.
Tourists will not be visiting to look at the ugly and damaging structures involved in fossil fuel extraction.
Australia has the best natural environment for sun, wind and water energy.
Stop destroying the planet.
Sincerely,
Beth Charleston.

Beth Charleston
****
QLD 4174

Charlton, Fiona – Thursday, 11 August 2022 – 14:56:16

Subject	no fracking
From	Fiona Charlton
Sent	8/11/2022 2:56:16 PM

The last Federal Treasure was dumpted because he had no green policies, SOLAR POWER ,WIND POWER OR BE DUMPTED ALSO.

fiona charlton
****
VIC 3960

Chester, Nadia – Saturday, 13 August 2022 – 17:09:22

Subject	Stop fracking by Origin
From	Nadia Chester
Sent	8/13/2022 5:09:22 PM

Fracking is destructive and irresponsible. Please don't approve fracking in the NT, it would not only impact the environment, but put people's health at risk and cause earthquakes like in the USA.

Nadia Chester
****
QLD 4159

Chesterr, Leonie – Friday, 12 August 2022 – 14:22:47

Subject	Stop Fracking in the Territory
From	Leonie Chesterr
Sent	8/12/2022 2:22:47 PM

Fracking must end in the Northern Territory. There's not enough water for the people to drink, as you well know, so obviously the little water there is cannot be wasted.

Leonie Chesterr
****
VIC 3886

Cheung, Catherine – Thursday, 11 August 2022 – 15:30:08

Subject	Origin's plan in the Northern Territory
From	Catherine Cheung
Sent	8/11/2022 3:30:08 PM

To the Norther Territory Department of Parks, Wildlife and Water:

as an environmentalist all my life, I am appalled to learn about Origin's plan to drill and frack twelve new wells in the Northern Territory.

The IPCC AR6 reports this year spelled desperate warnings, that without drastic reduction of greenhouse gas emissions and an end to fossil fuels development, we are set to breach the 1.5 degrees rise in global temperature, with unimaginable consequences. This alone is enough to stop any further fossil fuel exploration, extraction and development, including Origin's plan.

Moreover, the risks of fracking on groundwater and human health are well documented. As a responsible nation, we must respect the Traditional Owners who do not want their country damaged and desecrated.

So I sincerely ask that you decline all of Origin's plans and applications.

Regards,
Catherine Cheung
QLD 4566

catherine cheung
****
QLD 4566

Chick, Paul – Thursday, 11 August 2022 – 14:56:27

Subject	No More Fossil Fuel Exploration
From	Paul Chick
Sent	8/11/2022 2:56:27 PM

I am totally sickened by the obscene greedy behaviour of gas corporations making massive profits due to the sky-rocketing prices they are charging for gas. I am also aware that they receive $$$$$$$$$$ of tax payers money, and pay little or no taxes, and get the gas for next to nothing. There is absolutely nothing for Australia to gain in supporting these climate wrecking greedy foreign devils.

Paul Chick
****
VIC 3666

Chindarsi, Kathleen – Saturday, 13 August 2022 – 15:35:03

Subject	Reject Origin's Fracking Plans
From	Kathleen Chindarsi
Sent	8/13/2022 3:35:03 PM

To the Northern Territory Department of Environment, Parks and Water Security:
Origin's plans to open 12 new fracking drills in the Northern Territiory show blatant disregard for public health and safety. The expansion of fossil fuels through these wells threatens public health and safety by further destroying country, water, and our climate. What could be more destructive? All of us lose - Traditional Owners and the rest of us, because any short-term financial gains for people involved with Origin will be far outweighed by long-term costs for everyone including Origin's owners and employees.
It is high time that companies still spruiking for oil and gas expansion were prevented from carrying out their plans. They cannot continue to be dishonest and willfully insensitive to the harm they are causing by downplaying the destructiveness of the outcomes.
Relevant governments and departments can prevent Origin's plans from becoming realised. Hence my submission to you as the relevant department that is (or should be) standing up for the public good.

Kathleen Chindarsi
****
WA 6054

Chinn, Natalie – Thursday, 11 August 2022 – 15:48:35

Subject	Please stop Origins Fracking plans
From	Natalie Chinn
Sent	8/11/2022 3:48:35 PM

Dear NT Department of environment, parks and water security,

My name is Natalie Taylor, I am a Physiotherapist, a Mother and Wife, an Australian and I care for the environment. I am writing to plead that you stop Origin from being able to go ahead with their fracking plans.

In the recent federal election Australia showed that the voice of the people want change, and we want it in the form of better care for the environment and doing what we can to minimise the damage from climate change.

Origins EMP to frack 12 new exploratory wells goes completely against what we as human beings need to be doing to look after our country (and then presumably if they find enough gas they would want to move on to a full production phase which would be even worse)

Please vote to reject this EMP, and send a strong message that we want companies to keep the gas and other fossil fuels in the ground and start using their huge resources for working towards 100% renewables. We (Australia) could be a renewable superpower but we won't be if we keep letting companies stick with the status quo

Thanks for your time,
Natalie

Natalie Chinn
****
NSW 2250

Chipperfield, Pamela – Saturday, 13 August 2022 – 16:13:44

Subject	Stop Origin's fracking plans
From	Pamela Chipperfield
Sent	8/13/2022 4:13:44 PM

NT Dept Environment, Parks and Water Security
Please stop Origin's fracking plans. This is the driest continent and aboriginal communities need clean, unpolluted water. Fracking is wasteful of water, and we can't be sure that fracking will not pollute the precious underground water.

Please stop Origin from doing this.

Signed: Pamela Chipperfield

pamela chipperfield
****
SA 5245

Chivers, Conrad – Friday, 12 August 2022 – 14:20:31

Subject	Stop ORIGINS plans for fracking in the Northern Territory.
From	Conrad Chivers
Sent	8/12/2022 2:20:31 PM

My name is Conrad CHIVERS and I live in Cairns in North Qld. I have worked in the Northern Territory and am totally opposed to the process known by the popular name as FRACKING.

Experience in the USA has shown that the system known as "FRACKING" is dirty and dangerous. For instance the water used in the process is held on the surface in ponds lined with plastic or some other material. This water cannot be used in any way as it is toxic and highly polluted. This problem has proven to be insoluble.

Conrad Chivers
****
QLD 4870

Chivers, Vivien – Sunday, 14 August 2022 – 20:20:47

Subject	Stop Origin's Fracking Plans
From	Vivien Chivers
Sent	8/14/2022 8:20:47 PM

To: Northern Territory Department of Environment, Parks and Water Security

I write to express my concern in relation to Origin's plans to frack in the Northern Territory for gas.
Some time ago I cancelled my two Origin accounts. This was in protest of these plans. So I have had a long term concern.

I am particularly worried that precious and irreplaceable water will be depleted and polluted. This is not only an issue for residents of the Northern Territory. However the most immediate and existential impact would be on our First Nations communities.

There are checks and balances which should ensure a full Environmental impact assessment. Origin must submit all plans to this process.

Yours sincerely

Vivien Chivers

Vivien Chivers
****
NSW 2640

Choo, Daniel – Monday, 15 August 2022 – 02:15:46

Subject	Origin's fracking plans of another 12 wells must be rejected!
From	Daniel Choo
Sent	8/15/2022 2:15:46 AM

To The Northern Territory Department of Environment, Parks & Water Security,

I have learned of Origin's plans to open 12 new fracking drills in the Northern Territory, ALL of which pose a DANGER to water, natural & cultural heritage as well as the Australian & worldwide climate! I strongly submit that Origin's fracking plans of those new 12 wells should NEVER be approved because they have NO licence to do those fracking drills for the natural gas & haven't accounted for or addressed the full climate impacts! Traditional Owners, who have been defending their country against Origin for years, gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented. Traditional Owners do not want Origin fracking on their land because of the risks to water, country, & cultural heritage!

If Origin's EMP is approved, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy & Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

The rest of the world is experiencing the deadly & dire side-effects of climate change & global warming (like droughts & wild-fire in Europe, North-Asia & North America) because of the release of megatons of carbon dioxide & other greenhouse gas set off by the excessive processing & burning of fossil fuels that contain carbon, the element that absorbs the sizzling infra-red rays of the Sun! Hence if Origin is allowed to go on with its proposed 12 fracking projects to sell more natural gas as fuel, the devastation of the world's climate & environment will worsen in an acceleration rate!

Thus it is supported with extremely cautious approach that all Origin's fracking plans should be rejected!

Daniel Choo
****

Choy, Jonathan – Sunday, 14 August 2022 – 19:46:54

Subject	Stop Fracking of the NT by Origin Energy
From	Jonathan Choy
Sent	8/14/2022 7:46:54 PM

To whom it may concern,

Northern Territory Department of Environment Parks and Water Security,

On the matter currently being considered by the Department with regards to the permissions for Origin Energy to commence work on 12 sites for gas extraction through Fracking, I would in the strongest possible terms respectfully ask the Department to reject the proposed EMP by Origin Energy,

As an Aussie who has grown up in NSW, trained as an engineer, worked in the Australian Oil and Gas sector and is now working in the German Water sector, I have particularly grave concerns for the potential negative implications of the proposed Origin Energy Fracking projects on the precious water resources of the Northern Territory.
As a technology, Fracking is full of potential risks and unknowns, which on the one hand can be minimised through careful engineering exploration and planning. However, on the other hand, the risks of groundwater contamination in the event of failure or error - whether in calculation or in construction - are so great, and have such longevity, that not only the environment, but all the local and broader Territory and National community will be adversely impacted, long after the profits of the gas extraction have been spent.

Even in the face of all expert assurances, that work is being carried out with world class technology and practices, the negative impacts of long lasting environmental pollution of water resources will always be more costly and therefore negate any potential financial gain in the short, medium and even long term.

Pristine, natural, unpollited water resources are also going to be much more valuable in the long term future than the gas resources of secondary quantity and quality which would be extracted by Fracking. This must definitely be included and given much weight in any trade off between the benefits of environmental protection vs gas extraction by fracking.

Apart from these issues, the wisdom and experience of Traditional owners must 100% be taken into account and given a serous platform in all considerations by the Department. The concerns and opposition of Traditional Owners should serve as a strong warning signal and red flag for any fracking in the NT.

Any extraction of resources MUST account for the wisdom, experience, advice as well as require the "blessing" of traditional owners in order to proceed. This wisdom gathered over 1000s of years of lived experience on NT lands will ensure a fruitful and sustainable stewardship of the abundant natural resources and sensitive ecosystem balances in the NT for 1000s more years to come.

In the most respectful yet strong terms possible I ask you to REJECT the EMP proposed by Origin Energy for their 12 planned NT fracking projects.

Thanks in advance.

Kind regards

Jonathan Choy

Jonathan Choy
****
NSW 2121

Christie, Jean – Friday, 12 August 2022 – 15:05:56

Subject	Origin's Plans to Frack
From	Jean Christie
Sent	8/12/2022 3:05:56 PM

Dear Northern Territory Department of Environment, Water, and Security,

I am writing to ask you to disallow fracking in the Territory, for the following reasons.

Fracking commandeers and poisons the water supply, endangering the health of people, domestic animals, and native animals.

Gas exploration results in gas leaks, which again are detrimental to both people and animals.

Gas infrastructure ruins both agricultural land and virgin bush, thereby destroying livelihoods, and endangering our wildlife.

Finally, gas is extremely expensive, and costs far more than solar energy. It is economically foolish to spend so much money, and destroy so much land, when the Territory is blessed with so much free sunshine.

Please reinstate the ban on fracking in the Territory, and ensure the protection of water supplies, livelihoods, and native animals.

Yours sincerely,

Jean Christie
****
VIC 3122

Christie, Vita – Saturday, 13 August 2022 – 08:22:35

Subject	Origin needs to stop/be stopped
From	Vita Christie
Sent	8/13/2022 8:22:35 AM

Origin seems unable to keep up with the priorities of Australians- we got rid of the liberal govt because they weren't doing enough in this space. Please don't let us down labor!

Vita Christie
****
NSW 2049

Christophersen, Susan – Sunday, 14 August 2022 – 17:36:19

Subject	Stop Origins Fracking Projects
From	Susan Christophersen
Sent	8/14/2022 5:36:19 PM

I write with great concern that the NT government is failing to respect the wishes of Traditional Owners. The fracking process destroys country, water and the climate. It sets a precedent for other corporations to do the same. I cannot believe that the wishes of the custodians of this country are not being given priority. Have we not moved to a position of conservation and respect ??

Susan Christophersen
****
VIC 3927

Chrystal, Evelyn – Saturday, 13 August 2022 – 15:06:16

Subject	Stop the fracking
From	Evelyn Chrystal
Sent	8/13/2022 3:06:16 PM

Northern Territory Parks and Wildlife
Please accept this as my submission to prevent fracking in the Northern territory.
I am an everyday person who loves our earth and I feel sure that fracking is not what we need. Our poor earth has and is undergoing such invasive treatment as it is and I think it needs protecting.
Our water is so precious and is in danger of being polluted or wasted, I think we need to go back to nurturing our land and not risk doing more harm than we have done already
Thank you if you take the time to read this and consider my simple words, stop any fracking, the cost is not worth taking the risk,
Evelyn Chrystal

Evelyn Chrystal
****
NSW 2550

Chuawiwat, Helen – Thursday, 11 August 2022 – 16:57:13

Subject	Please stop Origin's plans for fracking in the Northern Territory
From	Helen Chuawiwat
Sent	8/11/2022 4:57:13 PM

I stand with the Traditional Owners in defending the water, soil and environment in the Northern Territory and protecting it from fracking by Origin, a commercial entity concerned only with profit, with no concern for the long-term health of the environment. If we contaminate our water, and our soil, we are spoiling our homeland forever - while somebody else makes a short-term profit. Please support our homeland. Sincerely,
Helen Chuawiwat

Helen Chuawiwat
****
NSW 2060

Chudoschnik, Rhonda – Friday, 12 August 2022 – 14:35:09

Subject	Please stop fracking!
From	Rhonda Chudoschnik
Sent	8/12/2022 2:35:09 PM

Dear NT Government,
Having just travelled through the gorgeous NT,
It is imperative that it is protected for us and our future generations to come.
Please dont let this be a huge regret in years to come by allowing fracking to take place and by causing so much harm to our land that we are so proud of!
Please dont let money make bad descisions
Yours sincerely
Rhonda Chudoschnik

rhonda chudoschnik
****
VIC 3226

Chudoschnik, Vlad – Sunday, 14 August 2022 – 14:35:11

Subject	Origin's Fracking Plan
From	Vlad Chudoschnik
Sent	8/14/2022 2:35:11 PM

Hey, NT Government- I know you represent all Territorians & their interests.
Origins objectives re- fracking are unacceptable given the process & outcome (I'm sure you have scientific evidence which supports my view) cannot
leave the " fracking " area in the same condition before fracking!!
Therefore, your decision is straightforward- deny
Origin their application!
By doing so , your government will set the standard
re - fracking and leave the right legacy for your community & this unbelievable country that we are blessed with!
Kind Regards
Vlad Chudoschnik

Vlad Chudoschnik
****
VIC 3226

Churchill, Erica – Sunday, 14 August 2022 – 10:35:30

Subject	No fracking of precious country
From	Erica Churchill
Sent	8/14/2022 10:35:30 AM

Northern Territory Department of Environment, Parks and Water Security

Please do not allow Origin to frack in the Northern Territory. Approving Origin's plans would be a huge risk to the water supply and will increase climate change with horrifying effects on our planet.

I have travelled through the beautiful country of the Northern Territory and would hate to see any of it destroyed. Tourism is vital to your economy.

Erica Churchill
****
VIC 3918

Chute, Ron – Sunday, 14 August 2022 – 14:24:00

Subject	Stop Origins fracking plans
From	Ron Chute
Sent	8/14/2022 2:24:00 PM

No fracking

Ron Chute
****
NT 0800

Ciancio, Dom – Sunday, 14 August 2022 – 14:30:55

Subject	Origin fracking plan
From	Dom Ciancio
Sent	8/14/2022 2:30:55 PM

Drill baby drill.....we are in need of cheap reliable energy

Dom Ciancio
****
VIC 3630

Ciullo, Ben – Friday, 12 August 2022 – 18:09:19

Subject	Stop Origin from fracking
From	Ben Ciullo
Sent	8/12/2022 6:09:19 PM

I believe that the proposal by Origin to open new fracking sites will have a detrimental impact on the environment and is firmly opposed by the traditional owners. It should therefore be rejected

Ben Ciullo
****
VIC 3068

Claff, Jack – Saturday, 13 August 2022 – 12:22:18

Subject	Stop fracking in the NT
From	Jack Claff
Sent	8/13/2022 12:22:18 PM

To the Northern Territory Department of Environment, Parks and Water
My name is Jack Claff. I live in an area in Northern Rivers where Metgasco wanted to drill fracking exploratory wells. There was massive opposition due to the effects of fracking on climate, ground water and agricultural land. I am writing to you as a member of the public to ask you to reject Origin's plans to drill 12 exploratory fracking wells. My concerns will come as no surprise. In brief they are:
1. Large scale gas production is really dangerous with the climate at a tipping point to send temperatures into the 50 degrees celcius range.
2. Fracking risks contaminating ground water which is a resource that we are going to need in the coming years.
3. The traditional owners reject fracking wells being drilled on their traditional lands and their wishes deserve to be respected.
So Please reject Origin's application to drill these wells.

Jack Claff
****
NSW 2480

Clancy, Robin – Friday, 12 August 2022 – 14:02:15

Subject	Fracking
From	Robin Clancy
Sent	8/12/2022 2:02:15 PM

No fracking!

Robin Clancy
****
SA 5031

Clark, Cheryl – Friday, 12 August 2022 – 12:27:21

Subject	Stop Origin's Fracking Plans
From	Cheryl Clark
Sent	8/12/2022 12:27:21 PM

Please protect Australia's heritage and especially Indigenous heritage from Origins fracking plans. The negatives far outweigh any advantages and more importantly isn't it time we listened to the traditional owners and acted on their wishes? We have ignored their wishes in the past to the detriment of our fragile ecology. It is time to let their voices prevail and preserve our and future generations heritage. Sincerely Cheryl Clark

Cheryl Clark
****
QLD 4553

Clark, John – Saturday, 13 August 2022 – 13:03:02

Subject	Stop Origen Energy from fracking in the Northern Territory
From	John Clark
Sent	8/13/2022 1:03:02 PM

To the NT Dept. of Environment Parks & Water.
Please don't allow Origen Energy to begin fracking in the N.T
It's very clear renewable energy is the only source of energy that would give our children any sort of safety that is predictable
The fossil fuel industry has been corrupt & has & continues to corrupt Governments.
Please put an end to it now.
John Clark

John Clark
****
NSW 2481

Clarke, Adam – Friday, 12 August 2022 – 08:46:55

Subject	Stop Fracking
From	Adam Clarke
Sent	8/12/2022 8:46:55 AM

STOP IT !!!!

Adam Clarke
****
NSW 2281

Clarke, Craig – Saturday, 13 August 2022 – 19:34:28

Subject	Stop all fracking
From	Craig Clarke
Sent	8/13/2022 7:34:28 PM

We need to stop all fracking and the destruction that it brings to our country and our environment. This is inter-generational theft and is NOT acceptable. STOP IT NOW!

Craig Clarke
****
SA 5042

Clarke, Elizabeth – Sunday, 14 August 2022 – 14:21:16

Subject	Stop Origin and fracking plans.
From	Elizabeth Clarke
Sent	8/14/2022 2:21:16 PM

Northern Territory Department of Environment, Parks and Water Security
On all the above elements of your department Origin's plans for fracking FAIL. Please listen to science and experience to see the damage that fracking can cause in all three departments.

Elizabeth Clarke
****
NSW 2094

Clarke, Matthew – Saturday, 13 August 2022 – 12:10:18

Subject	Stop Origin's fracking plans
From	Matthew Clarke
Sent	8/13/2022 12:10:18 PM

Dear government representatives,

It is mind boggling to see that proposals are still being considered to allow companies such as Origin energy to continue the exploration and mining of natural gas in our country.

The process of gas exploration and mining known as fracking is unbelievably harmful to human, animal and environmental health. This is issue is not debatable and has been proven time and again.
Ridiculously, companies such as Origin, continue to push forward with reckless abandon with the intention to pollute and destroy our land and water in search of short-term economic advantage (for a select few).
As a school teacher of more than 10 years experience, I have seen the horrific effects of fracking first hand with the pollution of both land, water and animal health while taking students on excursions through our local communities and bush surrounds.

As our representative, it is critical that you act in the best interests of our nation and it's people by rejecting any submission by Origin or any other company to explore or mine gas in the Northern Territory or any other state, region or territory.

Sincerely,

M Clarke

Matthew Clarke
****
NSW 2830

Clarke, Nella – Sunday, 14 August 2022 – 14:59:52

Subject	strongly opposing Origins fracking plans
From	Nella Clarke
Sent	8/14/2022 2:59:52 PM

To NT Department of Environment, Parks and Water Security,

I strongly object to Origin's plans for twelve new fracking drills in the Northern Territory.

There is absolutely no doubt these new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

Origin should be required to listen to the Traditional Owners and the communities around the country and should not be allowed to bypass proper processes, they should have to have the traditional owners consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

I can't beleive you are considering allowing such unjust land degredation in this time,

sincerely,
Nella Clarke

Nella Clarke
****
NSW 2798

Clarke, Sue – Sunday, 14 August 2022 – 14:28:05

Subject	Fracking
From	Sue Clarke
Sent	8/14/2022 2:28:05 PM

Stop fracking everywhere. It destroys the environment and you lot know it. Do you have children or grandchildren of course you do. If you CARE really CARE for your OWN families future you will stop all forms of fracking. Signed Sue Clarke

Sue Clarke
****
VIC 3198

Cleghorn, Ron – Sunday, 14 August 2022 – 10:35:41

Subject	Stop now Origin's proposed new fracking plans.
From	Ron Cleghorn
Sent	8/14/2022 10:35:41 AM

To the Northern Territory Government.

Lease urgently reconsider approving Origin Energy's plans to develop 12 new fracking wells. The world knows, for certain now, that fossil fuels are poisonous and rapidly killing our planet. We also know, for sure, that the demise of fossil fuel use is not far away. Any new developments will never be financially viable loosing millions of dollars of share holders money.
As responsible representatives of our planet stop this and all future fossil fuel developments before we suffer the catastrophic effects of climate change.

Thank you for reading my submission.

Regards,……..Ronnie

Ron Cleghorn
****
VIC 3350

Clerehan, Rosemary – Sunday, 14 August 2022 – 15:42:09

Subject	Stop Origin's reckless fracking plans
From	Rosemary Clerehan
Sent	8/14/2022 3:42:09 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

This would not only be paving the way for Origin to frack and destroy country, water, and our climate, it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Rosemary Clerehan
****
VIC 3143

Clifford, Bill – Friday, 12 August 2022 – 16:56:35

Subject	stop fracking
From	Bill Clifford
Sent	8/12/2022 4:56:35 PM

NO NO NO Fracking.

Bill Clifford
****

Clifford, Julie – Sunday, 14 August 2022 – 13:26:30

Subject	Stop:Origins fracking plans
From	Julie Clifford
Sent	8/14/2022 1:26:30 PM

Origin do not own our country land. Northern Territory Govt do not allow their Fracking GREED , the generations to come and the people on land must be protected always ,WE ARE to stop Ruining our precious land !!

Julie Clifford
****
VIC 3939

Clifford, Lorraine – Thursday, 11 August 2022 – 19:20:06

Subject	Please stop the proposed fracking.
From	Lorraine Clifford
Sent	8/11/2022 7:20:06 PM

Please no fracking
It will cause so much damage.
This is environmentally unsound

Lorraine Clifford
****
WA 6163

Clydesdale, Greg – Sunday, 14 August 2022 – 14:17:37

Subject	Origins fracking plans
From	Greg Clydesdale
Sent	8/14/2022 2:17:37 PM

The people closest to the impacts must be supported. The traditional owners views must take precedence over the desires of Origin.
Monitoring and administration costs must be applied and paid in advance for the project by Origin.
Compensation and rehabilitation costs must be projected and provided with payment in advance to be included in project economics.
Water, climate and environmental issues are so fragile and so profound that costs must be subject to long term projections. Cultural impacts must be recognised at maximum replacement, retention or rehabilitation cost

Greg Clydesdale
****
VIC 3747

Coates, Doug – Saturday, 13 August 2022 – 18:09:49

Subject	Stop Origin's reckless fracking plans
From	Doug Coates
Sent	8/13/2022 6:09:49 PM

After a decade of complete neglect of the adverse impact of Australian CO2 pollution to the worsening problem of climate change, the Federal Government is about to implement the Climate Bill to at last enable Australia to act responsibility and contribute positively to the international effort to reduce CO2 emissions.
In complete contrast to this initiative, Origin Energy has submitted an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.
Without any doubt, fossil fuels are the source of the detrimental climate impacts and cannot any longer be a part of energy production. Not only is gas a significant part of the CO2 problem, fracking is also detrimental to the land affected, to water resources, to wastye-water production and to the cultural heritage of those areas of country.
The previous federal government made Australia an international embarrassment re climate change inaction and fracking for gas exploitation only worsens Australia’s deplorable reputation in this respect.
The NT Government must not approve Origin’s proposal and must take this as an opportunity and responsibility to reject any further gas production.

Doug Coates
****
NSW 2066

Cochrane, Jane – Friday, 12 August 2022 – 12:09:01

Subject	No new fracking wells from Origin in NT
From	Jane Cochrane
Sent	8/12/2022 12:09:01 PM

I am writing this as an Australian who has long been concerned about the rights and needs of our First Australian. I notice the the traditional owners impacted by the proposed gas wells are opposed to this development. I am concerned that the new wells will destroy the water systems in the area upon which the whole ecosystem depends.
I am also very concerned about climate change. The IPCC has said that it is imperative that no new coal mines or gas fields be developed if we are to have any chance of holding global warming to below 2%.
On these grounds, I submit that the department should reject Origin's EMP.

Jane Cochrane
****
NSW 2038

Cockayne, Felicity – Saturday, 13 August 2022 – 19:58:17

Subject	Stop Origin's Fracking
From	Felicity Cockayne
Sent	8/13/2022 7:58:17 PM

It's time Australia moved on to renewable sources of power that do not trespass on the lands of traditional owners. In addition Australia, being the driest continent in the world, needs to be more aware and careful of our ground water which will not only be used up and possibly polluted by fracking

Felicity Cockayne
****
VIC 3095

Coenraads, Robert – Sunday, 14 August 2022 – 11:10:09

Subject	Please reject Origin Energy's Fracking Plans for the NT
From	Robert Coenraads
Sent	8/14/2022 11:10:09 AM

At this stage of our transition to clean energy we should be moving away from gas fracking project which have no long term future, and a negative legacy of destroying and contaminating the region's aquifers.

Robert Coenraads
****
NSW 2086

Coffey, Caro – Saturday, 13 August 2022 – 13:39:03

Subject	Stop Origins Fracking Plans
From	Caro Coffey
Sent	8/13/2022 1:39:03 PM

Fracking the land is never a good thing. It causes irreversible damage. Over 400 hundred chemicals are used. These chemicals will make their way into the water table contaminating it.

These plans are inconsistent with Australian's stated intention to reduce emissions to 43%. Carbon emissions occur at both the mining stage and the end use. There can be no argument for fracking in Australia as there is an abundance of other energy sources available including renewables.

We elected you in the hope and expectation of better governance. Prove us right.

Caro Coffey
****
NSW 2011

Cohen, Sandra – Sunday, 14 August 2022 – 13:17:00

Subject	Re: Origin'a new fracking drills
From	Sandra Cohen
Sent	8/14/2022 1:17:00 PM

To: Northern Territory Department of Environment Parks and Water Security.
I am a concerned community member and I am dismayed that origin plans to put 12 new fracking drills in country where indigenous communities live. This will not only threaten the clean water supply; it risks damaging cultural heritage sites and our environment.
Please consider refusing permission for these projects to go ahead.
Sandra Cohen

Sandra Cohen
****
VIC 3183

Cohen, Yael – Monday, 15 August 2022 – 11:43:51

Subject	Stop fracking
From	Yael Cohen
Sent	8/15/2022 11:43:51 AM

The Northern Territory Dept of Parks. Environment and water security.
Please reconsider permission for fracking by Origin.
This will be very short term monetary gain for the destruction of water aquifers, aggravation of global warming and offence to the Aboriginal title holders who are opposed to the development.
Why not invite green private enterprise in to quickly develop alternate energy sources and reward them with tax breaks. I am positive this will lead to extremely good outcomes for the NT without the need to go against all expert environmental advice and severely endanger the future of our biosphere. Our children are already incredibly anxious about the lack of collective effort in lowering fossil fuel emissions.
We need to be able to show them that environmental catastrophe can be averted.

Sincerely,
Yael Cohen MBBS MMH
PH *********

Yael Cohen
****
NSW 2016

Cole, Sophie – Friday, 12 August 2022 – 14:38:26

Subject	Stop Origins Fracking Plans
From	Sophie Cole
Sent	8/12/2022 2:38:26 PM

Northern Territory Dept of environment, parks and Water Securities.
I'm writing, expressing my concerns with Origin plans for 12 new fracking drills.
As sad as this is allowed what's more disrespectful is denying Indigenous elders and groups having any voice and silencing them once more, shocking in this day and age when we have come soo far in acknowledging their rightful recognition on their land as well as recognising how valuable their work in maintaining these lands.
Denying them this voice makes a mockery in finally acknowledging the value and rights of indigenous groups throughout Australia.
Why you would allow Origin to bypass their voice, beggars belief.
Allow them to have an input on their concerns regarding fracking and such a valuable commodity and WHO would deny them such a voice.
Don't allow this to occur in such a David and Goliath case with all the financial wealth that Origin brings.
Regards Sophie Cole

Sophie Cole
****
VIC 3146

Cole, Tony – Sunday, 14 August 2022 – 18:26:33

Subject	Stop Origins fracking in the Northen Territory
From	Tony Cole
Sent	8/14/2022 6:26:33 PM

Every where else in the world is stopping Fracking, UK, USA, where it has been found to poison the aquifers, rivers, under ground basins, leaves land unusable after, the fracking has been completed, in most case no repatriation is carried out, so the land is unusable, so for a short term profit, a long term usage (Farming, Forrest, animals, birds, wildlife, under ground water are all left affected.
SO PLEASE NO MORE FRACKING, for the sake off future generation,"YOUR CHILDREN, GRANDCHIDREN, AND GREAT GAND CHILDREN"

Tony Cole
****
WA 6210

Colley, Tom – Sunday, 14 August 2022 – 17:05:38

Subject	Say no to Origin's new fracking drills
From	Tom Colley
Sent	8/14/2022 5:05:38 PM

Dear Northern Territory Department of Environment, Parks and Water Security,

Please do not approve the 12 new fracking drills that Origin Energy is seeking. As you know, the Pepper Inquiry made a stack of recommendations regarding safe fracking that the NT government agreed to implement, but hasn't yet. These new fracking drills are inconsistent with several of those recommendations. In addition, the Traditional Owners object and the risks to climate and water security are high. What a cocktail of negatives outcomes!!

I am a father and an environmental scientist. I know there are good infrastructure solutions to our climate crisis, but they will not emerge in time if we keep supporting dirty dangerous energy projects like these fracking operations. Origin has capacity to invest in and profit from clean renewable energy. They don't have to pursue an investment that puts at risk the interests and security of NT residents, Traditional Owners and the global community. And the NT Government certainly does not have to approve them. I implore you to show vision and responsibility by refusing approval for these fracking drills.

Yours sincerely,

Tom Colley
****
NSW 2783

Colman, Heather – Sunday, 14 August 2022 – 08:32:29

Subject	Stop any new fracking projects
From	Heather Colman
Sent	8/14/2022 8:32:29 AM

Stop all new fracking wells. Be a responsible government and fund renewable energy not fracking with all its contamination and climate consequences.

Heather Colman
****
NSW 2537

Colman, Hugh – Friday, 12 August 2022 – 16:39:58

Subject	For the security of us all, Origin's Fracking plans must be stopped.
From	Hugh Colman
Sent	8/12/2022 4:39:58 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I'm an Australian resident in my mid seventies, deeply concerned about the security of the future, for our country, and for our world.

Climate change is real, and potentially disastrous, and I feel it my duty and responsibility to do whatever I can to persuade' those in charge' to do the right thing.

As security is the stated aim of your department, I hope you will prevent Origin from realising a plan for twelve more fracking drills.
We KNOW that fracking is a threat to water quality, and that all fossil fuels need to be left in the ground, and our resources of wind and sunshine must replace these dangerous sources of energy.

I support the Traditional Owners in their defence of country, and understand that their cultural heritage is also under threat from the proposed fracking.

And of course, if allowed, this proposal would set a disastrous precedent for the future.

I believe that we must all act urgently to save this world for future generations.

Sincerely,

Hugh Colman

Hugh Colman
****
VIC 3101

Colussi, Nadia – Saturday, 13 August 2022 – 19:28:01

Subject	Reject Origin's Fracking Plans
From	Nadia Colussi
Sent	8/13/2022 7:28:01 PM

To the Northern Territory Department of Environment, Parks and Water Security,
My name is Nadia and I'm deeply concerned about the current state of our planet. I am also deeply concerned about our country and the impacts fossil fuel companies are having on our environment. We are we already witnessing the impacts on our own soil from frequent floods, longer heat waves, ferocious bushfires and the mass bleaching of our coral reefs. Burning fossil fuels is no longer a viable option and needs to be ceased immediately. That's why I'm urging you to reject Origin's EMP.
Thank you for taking the time to read my submission.
Sincerely,
Nadia Colussi

Nadia Colussi
****
VIC 3182

Conder, David – Saturday, 13 August 2022 – 09:43:58

Subject	Fracking. Can we poison your family's back yard?
From	David Conder
Sent	8/13/2022 9:43:58 AM

I'm Dave, an ecologist. Reject Origin's EMP and destruction of Traditional Owner natural environments above and below ground. What's to explain. Given ignorance isn't an excuse, fracking is an embarrassment to humanity. Stop whoring yourself to coal seam gas at the expense of Traditional Owners and the civility of all Australians. Politicians and coal seem gas companies - GREEDY, BARBARIC. Disgrace to the human race. How do you live with yourselves, filthy pigs? How about we dump endless toxic waste in your families backyard? Hypocrite scum.

David Conder
****
NSW 2484

Connell, Phoebe – Monday, 15 August 2022 – 13:00:31

Subject	Stop Origin's fracking plans
From	Phoebe Connell
Sent	8/15/2022 1:00:31 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I wish to express my rejection of the plans to allow Origin to open 12 new fracking drills in the NT.

Allowing Origin to sell gas without a production licence would set a terrible precedent and undermine the integrity of our regulatory system.
Additionally, Origin also proposes to clear 111 hectares of an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat.

As a concerned NT resident I ask that this proposal does not go ahead.

Thank you

Phoebe Connell
****
NT 0810

Conner, Alice – Friday, 12 August 2022 – 16:58:56

Subject	Stop Origins fracking Plans
From	Alice Conner
Sent	8/12/2022 4:58:56 PM

The Paris agreement is a legally binding treaty and Australia is a part of this agreement, as participants of the UN Net Zero Coalition it is appalling that the proposition of exploratory wells are being fracked under illegitimate licensing and consent. The environmental ramifications of this project are insurmountable; scope 1 and 3 emissions of 2 million tonnes to be expected from this project and excessive water wastage and pollution. This is a violation of Australia's commitments, participation and legal partnership under the Paris agreement.

The second violation is under the UN declaration of human rights and UN Declaration on the rights of indigenous peoples. The UN Net Zero coalition is not only about the reduction of emissions, but also about an equitable and inclusive transition, particularly for priority populations (First Nation). Projects such as this destroy the self-determination, health and livelihood of these people and communities. Environmental, social, cultural and economic prosperity is imperative to resilience however the 135 recommendations of the pepper inquiry have yet to be implemented, disregard and exploitation of these communities' results is lethal consequences and resembles what can only be acknowledge as contemporary genocide. The exploitation of land, communities, culture, resources (430 million liters of water – 90 million of wastewater) is infringement on what should be an authentic adherence to the duties, responsibilities and legalities both nationally and internationally. It's revolting!

WHY IS THIS MONEY BEING WASTED ON THE PROBLEM AND SHORT TERM PROFITABLE GAIN FOR THE ELITE FEW INSTEAD OF INVESTED INTO SUSTAINABLE FUTURE FOCUSED SOLUTIONS AND INITIATIVES FOR THE MASS- THIS IS AN INCREASING MARKET COMMODITY, ITS COMMON SENSE!!!!!!!!!!!!!!!!!!!!

"Building resilience and investing in adaptation must be a priority for all. Climate risk must be systematically integrated into all decision-making processes and financial flows. Fossil-fuel subsidies — especially coal finance at home and abroad — must end once and for all. Private sector finance must be aligned with a credible net-zero, resilient and sustainable development pathway. And we must ensure that our transition to net zero is just, equitable and inclusive. We must expand social protection" – UN

Alice Conner
****
VIC 3066

Conor, Liz – Sunday, 14 August 2022 – 12:07:39

Subject	Proposed Fracking wells
From	Liz Conor
Sent	8/14/2022 12:07:39 PM

I write as an settler Australian proud of this nations First Nations heritage. I'm also a colonial historian as intimately aware of the legacies of an extractivist economy of Aboriginal people. Origin continues a tradition of untold destruction in proposing these 12 new fracking wells. Climate change is the final frontier of colonialism. It is the latest round of dispossession of Aboriginal peoples of their lands, livelihoods and language, all inextricably leavened over millenia into their connection to country. The wells you are proposing will require their water, potentially poison their sources and expose them and all of us to greater risks of climate change. It is unconsionable to bear witness to those impacts as they play out in Europe this summer - record heat waves, its great river arteries drying out for the first time in centuries, megafires destroying lives and property - and add to these travails by localising them to some of the most marginalised people on this earth, those who valiantly and against all odds survived colonial incursion, violence, disease, family fragmentation and displacement. For all their challenges the remote communities on country are a triumph of human will and a blessing to rich culture to all Australians. Do not undermine their health and wellbeing with these fracking wells. Don't be on the wrong side of history.
Sincerely, Associate Professor Liz Conor.

Liz Conor
****
VIC 3068

Conroy, Bodil – Thursday, 11 August 2022 – 21:11:09

Subject	origin EP 98 & 76
From	Bodil Conroy
Sent	8/11/2022 9:11:09 PM

Ms Bodil Conroy
PO Box 2733
Palmerston
NT 0831
Mob: *********

Attached Documents

- My name is Bodil Conroy, and I am writing with concerns relating to Origin Energy's Environmental Management Plan on EPs 98 & 76.
- I believe this EMP fails to meet the criteria for approval set out in the Petroleum (Environment) Regulations 2016.
- I believe this EMP should be rejected by the environment minister or referred to the EPA for assessment.
- **Main points**

1. The amount of Methane gas (535,651 tonnes, over three years) is equivalent to raising the level of heating (Greenhouse gas) that the whole of Australia produces for 12 months 1.8% when we are trying to reduce greenhouse gases by 48% nationally. As per our new Prime Minister.
2. The request for 12 new exploration wells with each production building 3 well pads each is extremely concerning without a proper assessment of the risks involved with geological changes to the underlaying bedrock and associated aquifers.
3. There has not been consultation with traditional owners they haven't made those agreements i.e. regulatory step with traditional owners to start fracking wells to sell the gas. The original agreements were signed in 2010-2012. A lot has changed since this time.
4. There is endangered species list of birds and animals impacted by this decision to frack in this area the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-Rat.
5. 12 wells in this EMP open for 730 days rather than the usual appraisal period of 130 days for exploration. Why is this happening and what is the justification for it?
6. This company wants to sell gas to MacArthur River Mine, they can only explore for gas not produce to sell the product. Is there a firm contract in place and how does this impact the already 30% of all produced gas which is being bought for the domestic market by the government.
7. Stygofauna has been found in these aquifers, which we know, have been found across aquifers leading to the knowledge of interconnectedness as discovered by the study by Charles Darwin University and the CSIRO in 2021. 11 new species of stygofauna have been found in the aquifers underlying the Beetaloo gas fields, stretching up to Katherine.

Stygofauna are tiny critters found in groundwater aquifers. They help to purify groundwater so it is safe for humans, animals and other living organisms to use. 90% of the Northern Territory's water comes from groundwater sources. They are thus absolutely essential to healthy water supplies for all living things in the Northern Territory.

What are the plans to protect and monitor these new species?

8. Ignoring the risks of Wastewater and contamination of surrounding habitat during the wet season, when spills and over fills will contaminate the soil and ground water. This will eventually lead to more deaths of flora and fauna which rely on healthy life-giving fresh water to grow.
9. Trucking wastewater to the tune of 90 million litres interstate. What exactly will this entail and where is the facility large enough to handle such an enormous liquid contaminated toxic mess? Will our roads be upgraded on a regular basis to carry heavy vehicles with dangerous loads? What happens when there is an accident and the commercial in confidence nature of the toxic fracking fluids are not known. What sort of danger does that put first responders in?

   Can there be a guarantee for the fire fighters during the dry season, when fires start, that there will not be any danger to volunteers from the risks of not knowing exactly what is in the fracking fluids?

- Conclusion: For these reasons stated above I would recommend that the Environment Minister refuse to consider this EMP and refer this EMP to the Environment Protection Agency under the Environment Protection act for full and thorough assessment.

Conroy, Glenn – Sunday, 14 August 2022 – 15:13:16

Subject	I live on border NT and Queensland
From	Glenn Conroy
Sent	8/14/2022 3:13:16 PM

ATTENTION: NT Department of Environment, Parks and Water Security

Origin has launched plans for twelve new fracking drills in the Northern Territory.

You do know that worldwide, the track record of such FRACKING, is POISONED water supplies for generations to come and the closure of nearby settlements.

Likely because these 12 fracking wells in NT will be out of sight and out of mind to most Australians and since ONLY local First Nations people will be directly impacted (even though 100% of NT First Nations peoples have voted and voted and voted AGAINST all fracking in the NT)_ that the NT Government will ride roughshod over its own citizens to suit the vested interests that pander to the NT Government in Darwin.

OR

Perhaps the NT Government can choose to be on the right side of history and reject fossil fuels. GAS is a fossil fuel. It has virtually identical greenhouse gas emissions to that of burning coal when you account for the fugitive methane that escape into the atmosphere (the ONE and ONLY, single atmosphere or air that we all breath) from these 12 origin fracking wells in the NT

I urge the NT Government to do:

THE RIGHT THING

and reject all fracking in the NT

Glenn Conroy
****
QLD 4011

Constantine, Sylvie – Saturday, 13 August 2022 – 12:10:25

Subject	Say NO to Origin's plans for 12 new fracking wells
From	Sylvie Constantine
Sent	8/13/2022 12:10:25 PM

I'm appalled to read that Origin -one of the biggest polluters in the country- plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Origin Energy already have a few "exploratory" fracking wells in the NT. Now, they've lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions. We need to reduce emissions to fix the climate crisis, not create more!

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA).

And what's even worse, they want to take huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of toxic wastewater, which they will dump somewhere, and that will contaminate the water supplies that First Nations communities rely on.

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please stand with Traditional Owners and reject Origin's reckless plans for 12 new fracking wells.

Sylvie Constantine
****
VIC 3201

Contact, Nurrdalinji – Monday, 15 August 2022 – 14:21:33

Subject	Submission - AMUNGEE NW DELINEATION PROGRAM Environment Management Plan (ORI11-1) EP 98
From	Nurrdalinji Contact
Sent	8/15/2022 2:21:33 PM

Please find a submission and additional attachment from Nurrdalinji Native Title Aboriginal Corporation.

Thank you

Attached Documents

Nurrdalinji Native Title Aboriginal Corporation
ABN: 32 608 508 769
ICN: 9392

Protecting Our Sacred Sites and Songlines Directive

Beetaloo Basin - 14 August 2022

Introduction

The Nurrdalinji Native Title Aboriginal Corporation (Nurrdalinji) was incorporated in 2020 and is made up of over 60 native title holders from 11 native title determination areas throughout the Beetaloo Basin. Nurrdalinji was formed following an historic meeting of native title holders from throughout the Beetaloo Basin at Daly Waters.

The name “Nurrdalinji” means “mixed tribe” in Alawa language, reflecting members’ diversity and unity. Nurrdalinji’s purpose is to support members to be consulted about what happens on their country. It seeks to enable its members to be heard and to determine their future aspirations for their country.

At a meeting in Daly Waters, NT on 13-14 August 2022 Senior Traditional Owners and custodians met together to talk about how we want to protect our places which hold a special meaning and significance for us from fracking damage.

Our concerns

For too long companies have been able to get away with damaging our land and sacred places. They have never properly consulted us. We will not sit by while plans for exploration move to production without due consultation. These companies need to leave, cease any new works and remove all equipment that is currently destroying our country.

We don’t believe the claims that there are benefits in this industry for us, when there are limited jobs, limited financial outcomes and when the actual costs to country and the climate are just too high.

Everyone is worried about fracking and the proposed scale. It would leave a scar on the earth, take too much water from our creeks and underground water. We don't want it to go ahead. But the companies are not listening to us, and experience tells us they will go ahead and do fracking without our permisslon.

Once companies put hundreds of wells across the Beetaloo Basin, where are we going to take our kids fishing and hunting? Where are we going to go when they damage and pollute our water? What’s going to happen to all our sacred songlines if this fracking goes ahead?

We don't believe the Northern Territory Government or the gas companies will protect sacred sites and waterways. They are rushing to get exploration done and are already cutting corners and making mistakes. The Aboriginal Areas Protection Authority (AAPA) must make sure that companies are doing the right thing and safeguard these sites from harm.

The Northern Land Council (NLC) is meant to be our representative body. It needs to consult with the right people and sort out the old anthropology which was done in a hurry. No one we speak with has ever understood, or now understands, the scale of what is coming. This is why we think it is so important to consult broadly, with all the right people. We have asked many times for a regional meeting of Traditional Owners across the Beetaloo, and are determine to see this happen.

What we want

The NLC should properly represent us. The Northern Land Council should properly advise us and faithfully represent our views and start to respect our right to determine what happens on our country, so we can organise, take advice, make timely group decisions and engage effectively with fracking companies, governments and other developers.

The NLC should hold a regional summit. The Northern Land Council should use the $2.1 million it received from the Federal government in March 2022 for the purposes of consulting in the Beetaloo Basin to hold a regional summit. This summit should be organised in consultation with Beetaloo Basin native title holders so we all have a say in what happens on country, providing native title holders with information to make informed decisions, as a group, about whether to give consent to fracking on our country.

Signed on 14 August 2022 by Johnny Wilson, Sam Daylight, Gillian Limmen, Samuel Sandy, Elaine Sandy, Josephine John, Bradley Farrar, Janet Gregory, Naomi Wilfred, Alan Watson, William John, Peter Ellis, Rowena Albert, Loris Hume, Dean Nugget, Abel Lansen, Pearl Hodgson, May August.

NURRDALINJI NATIVE TITLE ABORIGINAL CORPORATION
ICN 9392

15 August 2022

Department of Environment, Parks and Water Security
Petroleum Operations Unit
PO Box 3675
Darwin NT 0801

By email: origin.ep98&76@nt.gov.au
cc: Minister.Moss@nt.gov.au

Dear Sir/Madam,

AMUNGEE NW DELINEATION PROGRAM
Environment Management Plan (ORI11-1) EP 98

Nurrdalinji Native Title Aboriginal Corporation (Nurrdalinji) was established by native title holders of the Beetaloo Sub-basin/ Barkly regions. Nurrdalinji was registered with the Office of the Registrar of Indigenous Corporations on 9 October 2020.

Our name "Nurrdalinji" is an Alawa language word meaning "mixed tribe", which reflects the fact that our membership is drawn from a wide area and several different language groups.

Our membership is comprised of native title holders from 11 native title determination areas throughout the Beetaloo Sub-basin/Barkly regions. Our members include native title holders and those with traditional interests directly affected by Exploration Permit 98, held by Origin Energy Ltd.

We hold significant concerns about these new plans as set out in the EMP and we do not believe that Minister Moss should approve them, not least because of the entirely inadequate consultation with Traditional Owners that the Northern Land Council (NLC) says it has undertaken and Origin has accepted.

This failure of the NLC and gas companies in the NT to adequately consult was discussed at a meeting in Daly Waters, NT on 13-14 August 2022. Senior Traditional Owners and custodians met together to talk about how we want to protect our places which hold a special meaning and significance for us from fracking damage. We attach, for your close consideration, a statement from this meeting which is relevant to this submission.

Overreach

What Origin Energy hopes for with this EMP is not just approval for exploration within the limits of Origin's exploration permit, but approval for what is effectively a big step towards production.

These plans are clearly beyond the scope of what is envisaged by the NT government, or the public, when it comes to fracking exploration, with the project intended to run for well beyond the standard few months. Origin hopes to run 'exploration' work for two years,

building more wells and seeing more development at the exploration phase than has ever been seen in the Territory.

Origin plans to drill and frack not just in the dry, but also our wet season. When the rains come, they can rapidly flood wide areas. However predictable the seasons may have been in the past, they are not as predictable now. This will increase the risks of pollution from flooding and wastewater overflow and the damage to country, our clean water and sacred waterways. The scale of the plans as outlined in this EMP also create risk for sacred sites in the area, some of which Origin admits at p.151 include *'a range of other sites ...either not yet recorded, or known but not reported for cultural reasons'.*

Origin makes it clear it hopes to not burn gas produced on site, as usually occurs, but sell the gas flowing from 'exploration', fracking a significant 12 exploration and appraisal wells, testing for 135 days or even an extended massive 730 days if 'beneficial use' or sale of gas is authorised. The company hopes to pipe the gas obtained through this testing phase via the MacArthur River Pipeline that supplies Glencore's McArthur River mine. Selling gas gained through exploration is not authorised under the Petroleum Act, nor should it be.

The significant scale of Origin's plans, which have not been subject to proper consultation with native title holders, is very concerning. If progressed Origin will knowingly see the creation of a massive amount of additional greenhouse gas pollution, making it impossible for the NT or Federal government to meet its climate targets. Critically, this will make our country hotter and dryer, impacting plants and animals and meaning it will be even harder for us to live on country than it currently is.

Consultation

It is clear from this EMP that Origin, or any of its agents including the NLC, have not consulted with the majority of relevant native title holders about their former plans or these new 2022 fracking plans.

Origin's assertions and course of action indicates that it views consultation with native title holders about its fracking activities as a mere formality, without substance or consequence.

In the EMP at 6.4 Origin attempts to show it has satisfied its consultation obligations by pointing to a scattering of meetings, most of which is limited to liaison with the NLC.

Origin's Stakeholder Engagement Log at Appendix M to the EMP confirms that direct consultation with native title holders affected by the EMP has been minimal. Origin has provided no detail of the concerns of those it has consulted with, or provided a response to these concerns. Even where Origin provides some notes of limited but direct consultation with native title holders in late May and June 2022, Origin shows its lack of real interest in responding to concerns by marking as 'N/A' next to the column *"A statement of the interest holder's response to stakeholder".*

Origin's Stakeholder Engagement Log contains evidence of a number of conversations with NLC. The NLC is not a stakeholder for the purposes of the *Petroleum Act*. The native title holders affected by EP 98 are stakeholders, not the NLC. The NLC is merely the representative of the native title holders for the time being, and should only act in accordance with our informed instructions. When Origin talks with the NLC it is not talking with affected native title holders, especially when the NLC is not keeping native title holders adequately informed of its plans.

Origin has not engaged with affected native title holders in the way that it claims to deal with stakeholders, or in the way it should under the *Petroleum Act* regulations (the Regulations). If Origin's EMP is now approved, it will have been approved without any meaningful consultation with or involvement of affected native title holders having occurred.

Native title cannot reasonably be asked to give their consent to fracking unless and until they understand the range of possible impacts of fracking (see, for example, 'Water' below). Those impacts cannot be understood by anyone until the area of interest has been more thoroughly studied.

Having regard to all of these points, we argue that Origin has not complied with its stakeholder obligations in reg 7 of the Regulations.

As a consequence, and having regard of reg 6 (2) of the Regulations, Origin's EMP should not be considered by the Minister unless and until: Origin engages properly with all affected native title holders; the EMP is appropriately amended to reflect the outcomes of proper consultation; and the EMP has been republished for review and comment.

Water

Another concern stemming from the size of these plans is extraction of the amount of water which would be needed, estimated to be 430ML in total. The NT government has been clear that before moving to production the recommendations of the NT Pepper Inquiry into Fracking should be fully implemented and planned baseline SREBA studies completed, which Nurrdalinji members are actively involved with.

The Pepper Inquiry underlined that scientists have not adequately studied the risks of taking vast amounts of groundwater from aquifers such as the Gum Ridge Formation. There is no evidence we can rely on of how this will affect animals and plants, or groundwater dependent ecosystems, which depend on these precious water sources. Origin produces little to no evidence to support its claim that extracting this vast amount of water is acceptable or sustainable. This is despite a regulatory requirement to properly assess all impacts.

If the Traditional Owners had been properly consulted about these plans we would have told Origin that water is the key to life and culture. Any proposal that involves extracting and using large amounts of water, and impacts waters above and below the ground, must not occur before extensive scientific research has occurred and unacceptable risks can be discounted, or not.

Water storage

The EMP reveals Origin will produce 90 million litres of toxic wastewater as part of the proposed operations, which it plans to put in trucks and transport interstate for disposal.

It is a matter of great concern to us that the government is not requiring all Pepper Inquiry recommendations to be implemented, and secondly, that it is prepared to waive even key environmental protections like the need for closed waste water storage.

The earth bunds that Origin say they will construct using topsoil stockpiles around the lease pad (p. 21) are no match for the Territory's increasingly erratic rainy season. The government should not allow Origin to play a game of chance with polluted waters that could affect large areas of country, and where the EMP reveals critical spill prevention measures have not even yet been developed.

Regardless of when the rains come, large, open ponds containing polluted or poisoned water will be a magnet to the multitudes of birds and animals who inhabit the area. Native title holders understand that experts analysing the chemicals to be used in those ponds are concerned about the impacts of those chemicals on people, animals and the environment, and that some of those chemicals may even be untested.

Animals and plants

The EMP shows Origin plans to clear 111 ha for these works and that there are 15 threatened species in the proposed work area, including the endangered Gouldian Finch and Yellow-spotted Monitor. We have no faith in the plans Origin has proposed that these animals will not be subject to further and unacceptable threats. The field surveys Origin says it has conducted, including sampling for stygofauna, which live in groundwater, are shown to be either extremely limited or absent. Nor has Origin attempted to cacluate the total amount of habitat that will be destroyed across the region, beyond that impacted in this EMP. Origin's 'rehabilitation' plans involve stockpiling cleared topsoil for over 5 years and using this to hope cleared areas are revegetated, with no plans to promote revegetation other than hoping native seeds within the heaped soil will flourish.

Culmulative impacts

Origin is required by law to assess the cumulative impacts of its plans. The Pepper inquiry saw the introduction of new regulations which require gas companies to set out the combined, or culmulative impacts, taking into account the impact and risks of this project as well as other gas company activities in the Beetaloo Basin. Origin has not done this for the EMP.

It does not look to what plans it has to build its project in future and the combined impact of other gas companies' production plans in the Beetaloo, for example the impacts on precious water resources. We know that Origin has plans to drill hundreds of gas wells, yet it has not assessed the cumulative risks to Country, water, communities. Because Origin does not do this, the company is not speaking truthfully about the real risks to the animals, our water and land.

Origin also fails in this EMP to truthfully account for the cumulative climate risks of its project and other fracking companies in the Beetaloo. We know that climate change is already making it hotter and harder for us to live on Country. Origin has failed to account for even its own emissions from past activities on the Amungee site or emissions from other ongoing projects in the Basin. Nor has Origin submitted a Greenhouse Gas Abatement Plan despite a requirement to do so under the Large Emitters Policy.

Conclusion

We are deeply worried about this EMP, signalling a scale of exploration that has never before been seen across our country.

This EMP must not be signed off without the input of native title holders and people with cultural authority for the area. We believe there needs to be a proper process looking at all of the possible risks and impacts together, right across our country.

Our people have deep connections across the region. We don't want to see this one-by-one consideration of new wells, new fracking, and more impacts on Country. If the water is impacted in one part of our country it ultimately impacts on the story and song further away. Our clans and families talk to one another and are becoming more and more worried that this fracking which is occurring right across the area.

The NLC acts not as our representative but as an authority over us, telling us what to do.

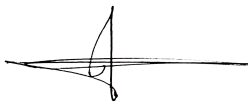
We are concerned that fracking will damage our country, poison our water and destroy our sacred sites which are passed down for us to look after. We do not want the mess left by gas companies which will stay with us forever. We cannot afford to frack because already with climate change it's getting hotter and hotter where we live.

For the reasons mentioned in this submission, among others, Origin's EMP does not satisfy the criteria for approval set out in the Petroleum (Environment) Regulations.

We request that the Minister refuse to consider the EMP until the action is referred to the NT EPA for assessment as to whether an Environmental Impact Assessment is required.

We look forward to talking further with you about our concerns.

Yours sincerely,



Johnny Wilson
Chair, Nurrdalinji Native Title Aboriginal Corporation
15 August 2022

Cook, Heath – Friday, 12 August 2022 – 15:04:03

Subject	Stop the proposed facking drills inNortern Terrritory!
From	Heath Cook
Sent	8/12/2022 3:04:03 PM

I am horrified by the proposed fracking drills in the Northern Territory!
These drills will not only destroy our country, our water

Heath Cook
****
NSW 2156

Cook, Julie – Thursday, 11 August 2022 – 15:15:37

Subject	Stop Origin's fracking plans
From	Julie Cook
Sent	8/11/2022 3:15:37 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Julie Cook
****
VIC 3123

Cook, Mehull – Friday, 12 August 2022 – 16:36:26

Subject	Northern Territory Frackking Plans.
From	Mehull Cook
Sent	8/12/2022 4:36:26 PM

Northern Territory Parks ,Environment, and Water Security Department.
Dear Sirs, America has shown the world many flawed logic's in the name of making themselves great again, and one the most toxic has been demonstrated to be fracking. What is left of underground water that is not poisoned by our RAAF defenders? Aside from the idea that gas is a poison to a climate urgency we are trying to find alternatives to BEFORE it is extracted , the actual extraction process itself destroys the very substance of our land . Its very heart!
I wish their was a name for people who want to see Australia financially superior at ANY cost , because PATRIOT sure as hell doesn't fit? I even wonder how FRACKERS (patriots) make a financial justification for their wants because the cost of bush fires and floods alone makes a nonsense of their small royalties arguments. Please preserve what is left of Australia before we are bankrupted ameliorating the consequences of your patriotism. With a functional aquifer and biology/biosphere we are rich enough perhaps to recover if the temp can be kept to 1.5 degrees by 2030. If our natural systems are so devastated by the likes of fracking , we have no hope of being able to replace them with technology.
We simply won't be rich enough! Nature does it the cheapest.
That said, we can always boast of our grand submarines while they are new.

i am michael Albert Dryer

Mehull cook
****
QLD 4209

Cooke, Heather – Saturday, 13 August 2022 – 21:44:23

Subject	No Fracking.
From	Heather Cooke
Sent	8/13/2022 9:44:23 PM

Fracking destroys the water table. Apart from polluting water sources, the process causes sinkage.
The destruction of the land and environment is irreversible . The loss will be devastating for the land, the flora and fauna, and subsequently for sustainability.

Heather Cooke
****
VIC 3931

Coombs, Siobhan – Friday, 12 August 2022 – 14:17:14

Subject	Please stop Origin's fracking plans
From	Siobhan Coombs
Sent	8/12/2022 2:17:14 PM

Hello!

My name is Siobhan, I'm a small business owner and mother of 2 currently living in beautiful Lane Cove in Sydney.

I am begging you to reject Origin'a plans to open 12 new fracking drills in the NT. Our collective future as a species relies on you to take a stand and say there is something more important than profit. Our country, the people who care for it, who benefit from it's riches.

I have no idea who reads these submissions! I hope you can feel my desperation and sincerity.

Many thanks for your time,
Siobhan

Siobhan Coombs
****
NSW 2049

Cooper, Greg – Sunday, 14 August 2022 – 15:10:37

Subject	We don't agree with fracking
From	Greg Cooper
Sent	8/14/2022 3:10:37 PM

Obey the law greed is distoying our land

Greg Cooper
****
VIC 3549

Cooper, TC – Thursday, 11 August 2022 – 16:02:16

Subject	Stop Origin's Fracking Plans
From	TC Cooper
Sent	8/11/2022 4:02:16 PM

To: Northern Territory Government.
The people of Australia rely on your government to do all that is necessary to protect our country and limit climate change. Fracking is destructive. Please ban fracking in NT and do not trust companies whose only aim is to extract profit, at any cost to us all and this amazing country.

TC Cooper
****
VIC 3198

Cooper, Verity – Sunday, 14 August 2022 – 15:13:29

Subject	Fracking in the Northern Territory - Origin
From	Verity Cooper
Sent	8/14/2022 3:13:29 PM

To: Northern Territory Department of Environment, Parks and Water Security

Dear Department Managers,
I beg you not to allow Origin and other fossil fuel mining companies to continue to search for gas and fracking opportunities in the Northern Territory. This is wrong on so many levels- we can NOT continue to look for fossil fuels when the world needs to stop them . Climate change is real and the effects are blindingly obvious, with flooding on the Eastern seaboard and the current bushfires in the Northern Hemisphere.
Please don't contribute to the ongoing damage- we must stop using fossil fuels.
Thank you
Verity Cooper

Verity Cooper
****
SA 5064

Copley, Alison – Thursday, 11 August 2022 – 14:25:53

Subject	Origin fracking is dangerous please stop them
From	Alison Copley
Sent	8/11/2022 2:25:53 PM

Dear NT parks, environment and water safety
Fracking is dangerous. Fracking is dangerous for water, the environment and will ruin cultural heritage.
Water quality and water tables are compromised, clear evidence of this. Why would you take on this far too risky industry. We have a climate emergency right now , the science says we must not get to 2degrees heating and yet fracking will clearly move the atmosphere to 2 degrees and above even more quickly. Look at the terrible damage occurring in countries like the USA where fracking occurs. The science is clear it is dangerous and not worth the risk.
Cultural heritage is ruined no matter what you might say you will put in place. The traditional owners know this and they are against NT fracking.
There are other sustainable alternatives to invest in that will not damage the above.
It is madness in this day and age to get into fracking.
Should you do so then it is clear your intention is about profit and nothing else matters.
Other sustainable forms of energy will not make profits but will be endorsed by the traditional owners if will not add to climate nor does it ruin the environmental flora and fauna.
In conclusion, it is oxymoronic to develop fracking.
Should you frack I wonder what you would say to your children or grandchildren who will live in an unbearable climate, who will not see the current diversity of flora and fauna that you have experienced and who will know you further decimated the world of traditional owners.
By fracking you are causing ecocide
Thanking you kindly
Alison Holding

Alison Copley
****
VIC 3150

Copley, Ian – Sunday, 14 August 2022 – 14:26:13

Subject	No Fracking
From	Ian Copley
Sent	8/14/2022 2:26:13 PM

Frack at your peril.
Do not destroy this Country by greed and insanity.

Ian Copley
****
TAS 7315

Corbett, Melissa – Saturday, 13 August 2022 – 17:12:53

Subject	Reject Origin's Fracking Plans
From	Melissa Corbett
Sent	8/13/2022 5:12:53 PM

I am sending this submission to the Northern Territory Department of Environment, Parks, and Water Security.

At a time when we need to be moving away from fossil fuels to limit further climate change, it makes no sense for Origin to open 12 new gas wells in the Northern Territory. As an Australian citizen who has been living in Europe for a number of years, I have experienced the hottest summer on record on this continent. Emissions that are released on one continent have far reaching effects globally and Origin has no plan to contain or take responsibility for the long term environmental impacts of this project.

Furthermore, proceeding with this project goes against the wishes of traditional owners. As a country, Australia needs to listen to the voices of Indigenous Australians and this can only be done when Australian governments at all levels respect the wishes of traditional owners.

I would like to thank the department for reading my submission asking the Department to reject Origin's EMP.

Kind regards,

Melissa Corbett

Melissa Corbett
****
VIC 3135

Corbett, Vince – Thursday, 11 August 2022 – 14:25:48

Subject	Pleasseee stop Origen's fracking plans
From	Vince Corbett
Sent	8/11/2022 2:25:48 PM

To the Northern Territory Dept. of Environment etc,
I urge you to call a halt to Origen Energy's fracking in NT. Fracking impacts the water, local indigenous communities and climate. It cannot be allowed, especially as the effects of the climate change crisis becomes evermore obvious, and devastating world-wide.

Vince Corbett
****
VIC 3046

Corby, Natasha – Sunday, 14 August 2022 – 11:35:31

Subject	Reject Origin's EMP
From	Natasha Corby
Sent	8/14/2022 11:35:31 AM

Please stop this matricide on mother nature. I am asking the Department to reject Origin's EMP. Please!

Natasha Corby
****
NSW 2055

Corden, Ken – Sunday, 14 August 2022 – 10:55:22

Subject	Origin's fracking plans
From	Ken Corden
Sent	8/14/2022 10:55:22 AM

Norther Territory Department of Environment , Parks and WATER SECURITY.

While I can see that there may be arguments for gas security in the short term till more appropriative green sources can come on line , Western Australia has alleviated that problem by having domestic supplies guaranteed over ever increasing windfall profits to large overseas companies.
The long term effect of water security should be our number one concern. If We destroy the water table or even have the possibility of the water table being contaminated , then there is no environment , parks etc to worry about. The big worry of course , would be food security , which already is one of the largest issues facing the world.
We would strongly suggest that Origin's plans are rejected.

Ken and Lucy Corden
****

ken corden
****
NSW 2041

Cornwell, Lorraine – Friday, 12 August 2022 – 17:12:36

Subject	Frackig in the NT, or ANYWHERE!
From	Lorraine Cornwell
Sent	8/12/2022 5:12:36 PM

To,
The Northern Territory Department of Environment, Parks and Water Security.
Origin is an expert on the environmental damage of fracking, but despite this continues to destroy heritage sites & ground water, causing irreparable harm.
Origin are no more than environmental criminals, who have no care for the land, the drinking water & the water leeching into & poisoning the land.
Do you not have children & grandchildren & do you not care they will grow up hating you for what you've done to the planet they must inherit.
Shame on you!

Lorraine Cornwell
****
QLD 4570

Cotter, Micheal – Sunday, 14 August 2022 – 14:18:11

Subject	Stop origins fracking plans
From	Micheal Cotter
Sent	8/14/2022 2:18:11 PM

What a beautiful country.

Well, until something goes wrong or someone gets caught with their hand in the cookie jar. Origins plans to frack the NT with more wells is absurd. Although in WA, I was amazed their scientific inquiry found fracking "risk to people and the environment low", I gather the EPA has internal moles which makes its voice louder.

Why allow fracking companies to destroy this beautiful land ?

Micheal Cotter
****
NSW 2620

Counihan, John – Saturday, 13 August 2022 – 16:23:52

Subject	Fracking
From	John Counihan
Sent	8/13/2022 4:23:52 PM

Save the environment. So much opportunity seeking new age power generation sources. I have 3 properties currently powered by Origin. I trust you can look forward for your company and children

John Counihan
****
SA 5250

Counihan, Sam – Saturday, 13 August 2022 – 13:40:02

Subject	Stop Origin Frackin in the NT
From	Sam Counihan
Sent	8/13/2022 1:40:02 PM

Come on people. I thought is pretty clear why this is the worst way forward for NT. Think bigger, if not for us - for your children.

sam counihan
****
VIC 3056

County, Trish – Thursday, 11 August 2022 – 14:52:08

Subject	Reject Origins plans
From	Trish County
Sent	8/11/2022 2:52:08 PM

I am a retired NSW resident. I feel very strongly that Traditional Owners are due respect and consideration in dealings with their Country.
Understand that for them Country is not just a place where they are living. First Nations Peoples are inextricably bound to Country, it is living and breathing to them, and they are bound to it’s care and preservation.
On the one hand, we apologize to them for previous treatment, while on the other, we continue gross disrespect, and in this case, a powerful company is money grabbing regardless of any cost to The Peoples, heritage,damage to the environment through emissions, the water, the land.
It is vital the Government step up, stop Origin's plans, insist on all exploration requirements be met, and disallow the sale of gas based in an exploration license. Honor First Nation Peoples passionate commitment to Country, honor the hope of Australians to change the future and not repeat our disgraceful past.
Trish County

Trish County
****
NSW 2304

Courtenay, Georgette – Sunday, 14 August 2022 – 12:25:28

Subject	Origin's fracking plans
From	Georgette Courtenay
Sent	8/14/2022 12:25:28 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.
Traditional Owners have been staunchly defending their country against Origin for years.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Pease consider the above and deny this desecration.

Georgette Courtenay
****
VIC 3934

Cowan, Matt – Thursday, 11 August 2022 – 22:42:28

Subject	Stop origin
From	Matt Cowan
Sent	8/11/2022 10:42:28 PM

When is enough enough.more means less the exportation of our resources will in the future cause more degradation.let's preserve and car for the future not profit listen to the custodians of our land they have managed it for millenum.

Matt Cowan
****
QLD 4352

Cowell, Patricia – Friday, 12 August 2022 – 16:52:54

Subject	PLEASE STOP ORIGIN'S FRACKING PLANS NOW!
From	Patricia Cowell
Sent	8/12/2022 4:52:54 PM

I am a retired citizen living on the South Coast of NSW and have just heard that Origin are planning to use 12 new fracking drills in the Northern Territory. This action is inconceivable when you think of the affect it will have on the land, the Traditional Owners, the water and the climate. Are we not supposed to be protecting all these things? How can it be justified? Please do what you can to stop this.

Patricia Cowell
****
NSW 2570

Cox, Cathy – Sunday, 14 August 2022 – 15:47:27

Subject	Origin fracking in the NT will damage water sources and communities
From	Cathy Cox
Sent	8/14/2022 3:47:27 PM

Dear NT Government
I was shocked to hear that Origin is still planning to frack for gas on the Amungee pastoral station lands.
So many gas companies are claiming that selling gas will reduce global heating and will assist climate change problems. The reverse is the truth. Natural gas is high in methane and adds to climate problems. Using gas is going backwards - we should be investing in renewable technologies - there is no time to lose.
The International Energy Agency is a consortium of OPEC nations and is a traditionally conservative body. They have reported that according to their calculations we have used up our 'carbon budget'. That is, existing production of coal, oil and gas has guaranteed enough carbon in the atmosphere to take us to 1.5 degrees warming or higher. Any new exploration and production will be disastrous. The IEA are conservative experts, and they understand the problems. They are also experts in fossil fuels but they realise that investments in these products will rapidly become stranded assets.
Companies like Origin are thinking only of short term profits. They do not care about the people of the NT (and even less about their workers and even less than that about the people of the world who are suffering from climate change impacts - people like the already poor population of Uganda experiencing floods right now). They pay minimal tax so they don't even make a financial contribution from their massive profits (15 per cent increase in Underlying Profit to $673 million for the financial year ended 30 June 2011).
As Australians we have a responsibility to protect the rest of the world from the emissions caused by our fossil fuels. And we have abundant wind and solar resources - indigenous people should benefit from these rather than have their land damaged and water used by disruptive fracking.
Thanks for reading this

Cathy Cox
****
SA 5066

Cox, Elinor – Friday, 12 August 2022 – 13:11:21

Subject	stop Origin's Fracking plans
From	Elinor Cox
Sent	8/12/2022 1:11:21 PM

Stop Origins Fracking plans immediately. They appear to be barging on ahead despite Climate change laws about to be passed. This is destructive and against all laws of nature to ensure healthy country!!!!!'
Elinor Coxp

Elinor Cox
****
QLD 4217

Cox, Graeme – Sunday, 14 August 2022 – 10:56:15

Subject	Stop Origins Fracking plans
From	Graeme Cox
Sent	8/14/2022 10:56:15 AM

Please for the sake of the planet and future generations don't allow further fracking in the Northern Territory.
Fracking is known to release methane gas to the atmosphere and further add to global warming.
There is a high risk of blow out and explosion.
Fracking requires enormous amounts of water to be injected with other chemical to expel the gas which inevitably contaminates the ground water.
The tradition owns of the land are against the fracking and destruction of the land and should be listened to.
Graeme Cox

Graeme Cox
****
NSW 2515

Cox, John – Saturday, 13 August 2022 – 14:22:44

Subject	Fracking can't be allowed to destroy the Territory
From	John Cox
Sent	8/13/2022 2:22:44 PM

The Director, Department of Environment, Parks and Water Security, Government of the Northern Territory

I am deeply disturbed to read about Origin Energy's plans to open twelve new fracking wells in the Amungee Mungee pastoral station. Fracking is a threat to the global climate and has severe local environmental effects, particularly on water security. Fracking also has adverse effects on Aboriginal cultural heritage that must be taken extremely seriously if there is to be any justice for indigenous people.

I find it extraordinary that Origin is even in a position to apply to drill these wells. I understood that the moratorium on frackin the the territory was conditional on companies implementing the 135 recommendations of the Pepper Inquiry. These recommendations have not been followed and Origin's latest proposal makes a mockery of government processes.

The days when profiteering fossil fuel companies expected patronage from government are coming to a close. I urge the NT Government to take a strong stand against Origin's destructive fracking plans.

John Cox
****
VIC 3065

Cox, Viki – Friday, 12 August 2022 – 21:26:49

Subject	Stop Origins fracking
From	Viki Cox
Sent	8/12/2022 9:26:49 PM

No more, we need to clean up our environment, not add more toxic polluting industry.

Viki Cox
****
TAS 7250

Craig-Jones, Ros – Friday, 12 August 2022 – 08:24:02

Subject	Origin's Fracking Plans in NT
From	Ros Craig-Jones
Sent	8/12/2022 8:24:02 AM

Hello,
I am one of possibly millions of Australians who is very concerned about Origin's fracking plans in NT.
Although a Queenslander, this is something which affects us all and I am writing to ask you to reject Origin's EMP.
In a nutshell, hydraulic fracturing for onshore shale gas in the NT is not safe, is not trusted and is not wanted.
Thank you,
Ros Craig-Jones

Ros Craig-Jones
****
QLD 4218

Cramond, Mark – Friday, 12 August 2022 – 14:16:01

Subject	stop fracking in the Northern Territory
From	Mark Cramond
Sent	8/12/2022 2:16:01 PM

Norther territory Department of Environment, Parks and Water Security
To whom it concerns,
My name is Mark Cramond from Parkside, SA.
It is clear from the IPCC and numerous NGO conservation groups that, if humanity (and all future generations of all species) are to avoid catastrophic climate change, then NO new fossil fuel projects must proceed.
I urge the Department to reject Origin's EMP for fracking in the NT.
Sincerely

Mark Cramond
****
SA 5063

Cranswick, Hugh – Saturday, 13 August 2022 – 10:42:44

Subject	Please consider impact of allowing more fracking!
From	Hugh Cranswick
Sent	8/13/2022 10:42:44 AM

At a time when the country is moving (and voting) for real change in our climate policy, Origin's EMP is a desperate commercial attempt to get around existing and foreshadowed legislation.

I stand with the Traditional Owners in opposing this submission from Origin - on both environmental and human rights issues.

Please look beyond the short term financial incentives to a more equitable and cleaner world. I urge you to reject this proposal.

Hugh Cranswick
****
NSW 2089

Craven, Anne – Thursday, 11 August 2022 – 17:49:40

Subject	Stop Origin's fracking plans
From	Anne Craven
Sent	8/11/2022 5:49:40 PM

To the NT Dept Environment, Parks and Water Security:
If this was a real world where the Governments and corporations cared about the well-being of people, animals, water and the environment fracking would be illegal.

Anne Craven
****
NSW 2146

Craven, Vanessa – Thursday, 11 August 2022 – 14:14:38

Subject	Stop Origin's Fracking
From	Vanessa Craven
Sent	8/11/2022 2:14:38 PM

Time to get greener and use more renewables.
Si cerely,
Vanessa Craven

Vanessa Craven
****
VIC 3072

Crawford, Jane – Saturday, 13 August 2022 – 14:50:22

Subject	Keep our community safe!
From	Jane Crawford
Sent	8/13/2022 2:50:22 PM

Please don't use tracking. We can't afford to damage the environment or damage the Tradtional Owners.

Jane Crawford
****
QLD 4068

Creasey, Alison – Sunday, 14 August 2022 – 09:16:14

Subject	alison.creasey@iinet.net.au
From	Alison Creasey
Sent	8/14/2022 9:16:14 AM

Although I am from NSW, I am extremely concerned about Origin's latest Management Plan. When are governments going to wake up the state of the planet, destroying habitats is as damaging for the climate as drilling. We have a finite time to turn around global warming which has been making excessive climate changes over the last few years.

Considering an action like this is criminal and I call on the NT Government to reject this plan and back the traditional owners who are trying to defend their land for the benefit of all.
In hope, Alison

Alison Creasey
****
NSW 2251

Cresswell, Andrea – Thursday, 11 August 2022 – 15:52:52

Subject	Origins fracking
From	Andrea Cresswell
Sent	8/11/2022 3:52:52 PM

USA informed us 20 years ago not to proceed with fracking as it is environmentally damaging. Why oh why is this happening! The NT has ample sun, please use solar.

Andrea Cresswell
****
SA 5048

Crisafulli, Karl – Sunday, 14 August 2022 – 15:37:01

Subject	Fracking? Really? In 2022?
From	Karl Crisafulli
Sent	8/14/2022 3:37:01 PM

You are reading the room so badly you may as well paint your face black and say a woman's place is in the kitchen.
We have moved on from this.

Karl

Karl Crisafulli
****
WA 6024

Criticos, Anthony – Saturday, 13 August 2022 – 12:16:04

Subject	No Fracking in the NT
From	Anthony Criticos
Sent	8/13/2022 12:16:04 PM

To the NT Government,
I write to express my opposition to Origin Energy's plan to open new fracking drills in the NT. I am not a professional scientist, I do not claim to fully understand the geological processes involved in the fracking process, but I know that respected professional people and others have pointed out the dangers involved with disturbing the rock structures that protect the water resources underneath. This disgraceful attempt by Origin to put profits ahead of prudent caution has to be called out.
Further, we have been told by respected world authorities that we cannot expand the fossil fuel industry, that we have to wean ourselves off fossil fuels. This does not mean shutting down the current industry (as prime minister Albanese has mischieviously claimed) but it does mean what it says NO NEW PROJECTS.
Origin Energy is attempting to squeeze as much profit as it can while it can before it is finally stopped by public uproar or government action, which may well be too late. Those politicians who allow the expansion of any new fossil fuel projects will ultimately be remembered as those who had the option to act responsibly but chose not to. How do you wish to be remembered?
Yours etc Anthony Criticos

Anthony Criticos
****
NSW 2548

Crocker, Lyn – Saturday, 13 August 2022 – 19:14:14

Subject	This FRACKING HAS TO STOP NOW especially in NT!
From	Lyn Crocker
Sent	8/13/2022 7:14:14 PM

To the NORTHERN TERRITORY DEPARTMENT OF ENVIRONMENT, PARKS AND WATER SECURITY

In regards to FRACKING IN NORTHERN TERRITORY! What are you all thinking? I am absolutely dumb founded how in record dry states you continue to FRACK! You don't need to be a scientist to work out the pros and cons.

I am not against mining, but seriously FRACKING HOW MANY WELLS? Why? Money? How much more money do we all need? You are trying to crack an area on top with NO PEOPLE TO SPEAK FOR THE MINORITY DIRECTLY IMPACTED.

I am beyond angry, disappointed as a human to even know you are looking at NT for your wells! The wet season can't fix this water crisis and contaminated water tables. Horrified at how ORIGIN & other companies are attempting fast tracking any FRACKING!

This land we are on doesn't belong to us or YOU! It's the FIRST NATIONS PEOPLE who can teach us how to live on the land. You are taking something more than land once you hit water tables. Which it's impossible to prevent with FRACKING.

I BEG YOU TO SEE SENSE, or at least see past the money! Money won't pay for your water you can't cart!!! Communities, agriculture, water sources, live stock, tourism, and any form of Nobel life will be gone forever!!!

I am implore you to appreciate the wheel of life! We can't keep stealing off Paul to pay Peter! You frack, replace with dangerous chemicals, there will be more than water contamination. Animals, wildlife, a way of life for FIRST NATIONS, history wiped clean within a few years max!

Lynette Crocker
Central Queensland and Pilbara born and raised!

Lyn Crocker
****
QLD 4701

Crofts, Michael – Thursday, 11 August 2022 – 14:18:27

Subject	Stop Scott Morrison's Coal Scheme.
From	Michael Crofts
Sent	8/11/2022 2:18:27 PM

Stop Fracking!!

Michael Crofts
****
NSW 2097

Crombach, Felicity – Sunday, 14 August 2022 – 14:28:15

Subject	Stop this disastrous fracking in the NT.
From	Felicity Crombach
Sent	8/14/2022 2:28:15 PM

Please stop Origin's plans to frack the Northern Territory. As First Nations Peoples will tell you, fracking harms the earth and the water table below it. This in turn is helping to destroy our planet and increase global warming.

Surely, our First Nations Peoples are knowledgeable about caring for the land and yet the NT government are ignoring not only their advice but overruling them on their own land.

Fracking has to stop because renewable energy is far preferable to gas and also gas is contributing to global warming. If you listen to those who are warning about the threat to Australia that global warming presents then you will understand that our defense forces will be unable to protect this country in a few year's time.

Please stop Origin's fracking plans for NT.

Regards

Felicity Crombach

Felicity Crombach
****
NSW 2101

Crosbie, Robert – Thursday, 11 August 2022 – 14:35:53

Subject	Origins Frackong plans
From	Robert Crosbie
Sent	8/11/2022 2:35:53 PM

Put simply, there should be no more fracking approvals.
Bob Crosbie

robert crosbie
****
NSW 2121

Crosby, Ben – Monday, 15 August 2022 – 11:31:18

Subject	Reject Origin's Reckless Fracking Plans
From	Ben Crosby
Sent	8/15/2022 11:31:18 AM

To the Northern Territory Department of Environment

I live in Sydney and have visited the Northern Territory on two separate occasions. I have travelled from from Darwin and Kakadu to Uluru, Kata Tjuta and beyond, taking in the amazing scale and variety from the Ghan Railway and a 4-wheel drive and experiencing so many natural wonders. The NT is absolutely stunning and country to so many generations of indigenous peoples.

Origin does not see this - all they see is profit. I am currently (and embarrassingly) an Origin Customer partly because when I signed up with them they claimed they were environmentally responsible. I subsequently called them out on their so-called 'green' and renewable credentials and they avoided the issue by just talking about their renewable energy projects. The problem is that most energy companies act the same way and when you rely on gas you're stuck with working out which power provider is the worst offender.

Origin don't give a damn about the environment and the continuing damage they are doing - they'll leave a trail of destruction behind them before moving on their next victim. They don't care that they are destroying indigenous cultural sites. They don't care that they are permanently polluting ancient aquifers that form part of the life-source of fragile ecosystems. They are totally unethical, trying to circumvent licensing requirements. They want the government to waive environmental protection laws. They openly admit that they have no management plan for waste disposal or remediation. This is hardly an exhaustive list.

There is no place for fracking in the Northern Territory or anywhere else in Australia. We have abundant sources of green energy and do not need to perpetuate our reliance on fossil fuels (and most of the gas mined will be exported with Australians paying a premium). It is purely profit gouging with total disregard for anything remotely resembling business ethics. I urge the NT government to reject this entire proposal in the strongest terms. For my part I will hope to find a different provider advising Origin exactly why I am giving them the flick.

Regards

Ben Crosby

Ben Crosby
****
NSW 2206

Crosser, Ingrid – Sunday, 14 August 2022 – 23:22:55

Subject	Stop Origin's fracking plans!
From	Ingrid Crosser
Sent	8/14/2022 11:22:55 PM

Approving the plans to open 12 new fracking drills would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of the regulatory system.

Please listen to the traditional owners and other Australians, including climate scientists who tell us that fracking carries a high unacceptacle risk and should not proceed. Renewables has all the answers we need. Fossil fuels are no longer necessary and do more harm than good.

ingrid crosser
****
VIC 3135

Crothers, Liz – Sunday, 14 August 2022 – 07:50:02

Subject	Why is Origin being considered for more fracking wells
From	Liz Crothers
Sent	8/14/2022 7:50:02 AM

To the NT Dept of Environment, Parks and Water Security

I have just returned to Victoria from the Northern Territory where I was lucky enough to meet Traditional Owners and learn more about Aboriginal heritage and culture. People in my all-white travelling group 'got it'. We all want to listen more, learn more, respect more. I challenge Origin to do the same and I will not forgive companies who have the means to know better and continue to make profit-making decisions over respectful decisions as well as those who enable this. Especially those charged with the responsibility of caring for their people and environment, not supporting profit-making corporates.
Please stop Origin fracking
Liz Crothers

Liz Crothers
****
VIC 3231

Crotty, Jane – Sunday, 14 August 2022 – 15:16:50

Subject	Stop origin fracking
From	Jane Crotty
Sent	8/14/2022 3:16:50 PM

Northern Territory Department of Environment, water parks, please stop giving access and permission for Orgin to damage our land for the sake of making money, enough is enough, there are other ways, greener ways, sub trainable ways. Leave the land alone.

Jane Crotty
****
NSW 2284

Crowle, Bill – Sunday, 14 August 2022 – 08:44:01

Subject	Bloody stupid fracking proposal. STOP IT!
From	Bill Crowle
Sent	8/14/2022 8:44:01 AM

Save the Planet not your pockets and shareholders…. Bloody wake up!

Bill Crowle
****
ACT 2614

Crunden, Nigel – Friday, 12 August 2022 – 14:31:03

Subject	Stop Origins Fracking Plans in the N.T.
From	Nigel Crunden
Sent	8/12/2022 2:31:03 PM

N.T Department of Environment.....
Respect the Land and the needs of the traditional owners.

Nigel Crunden
****
VIC 3775

Cullen, Yvonne – Sunday, 14 August 2022 – 09:51:34

Subject	Stop Origin planned Fracking NT
From	Yvonne Cullen
Sent	8/14/2022 9:51:34 AM

Apart from the traditional owners Yanyuwa Garrwa of Borroloola concerns and objection in caring for country above personal gains in money, I also object from a climate change AND protection of environment.

Scientific requirements means not impacting our climate chemicals which may catastrophic ly enter our water table, use of 172 Olympic pools water for fracking, both effecting local communities.

We need courage and legislations to stand up for conservation with correct information not 20th century concepts of just take what ever. Thank you Yvonne cullen

Yvonne Cullen
****
VIC 3939

Cuniowski, Jonathan – Saturday, 13 August 2022 – 19:26:18

Subject	Stop Origin's fracking plans
From	Jonathan Cuniowski
Sent	8/13/2022 7:26:18 PM

Dear NT Department of Environment, Parks and Water Security

I write to express my view on Origin's proposed fracking wells in the Northern Territory. I believe that these should be opposed on the basis that oil and gas exploration will contribute to the likelihood of devastating climate change when all effort should be on efforts to address climate change.

In addition, fracking would use enormous amounts of water, taking it from communities in the areas, be contrary to the wishes of traditional custodians of the land, and potentially damage the environment and pollute finite water resources.

In short, there is no good reason to allow Origin's plans and every reason to reject them.

Kind regards
Jonathan Cuniowski

Jonathan Cuniowski
****
NSW 2137

Curley, Steph – Sunday, 14 August 2022 – 08:38:20

Subject	Please take action to stop Origin's fracking plans
From	Steph Curley
Sent	8/14/2022 8:38:20 AM

To the Northern Territory Department of Parks, Environment and Water Security,

I have been shocked to hear of plans to allow Origin to open 12 new fracking wells in the Northern Territory.

Large corporations who have no tie to Australia are desecrating Australian country, water and soil all at the expense of the community and Traditional Owners who call the Northern Territory home and we cannot allow it to continue any longer.

I love Australia, but I don't love the power fossil fuel companies have over our Government. From the perspective of Australian people, it cannot be said that allowing further gas exploration and gas fracking benefits Australians. Not only are the direct impacts of this dangerous - including risking the health of nearby communities through toxins in air and water, but the indirect impacts of driving the climate crisis we are living in will continue to be felt now and far into the future.

Every last drop of fossil fuels we burn has a consequence for our planet and for our future. We are already seeing droughts, mega bushfires and mega floods (in the last 4 years alone) which are only an indication of what's to come if we continue to allow more fossil fuels to be dug out of the ground.

The Institute for Energy Economics and Financial Analysis (IEEFA) has produced evidence that the gas industry is misleading government, investors, customers and the broader population about the amount of carbon dioxide and methane emissions being released during production, supply and distribution of both conventional or ‘natural’ gas and its product for export – liquefied natural gas (LNG). The impact of gas is not what we are being told by the gas companies like Origin and its time we stopped turning a blind eye.

I am a professional women in my thirties who has long considered bringing a family into this world with my fiancé. Sadly, given the climate and the business as usual approach our leaders and corporates are taking to extracting and burning fossil fuels, I don't feel comfortable bringing children into the world to inherit a scary, uncertain and unliveable climate future.

The project Origin are proposing is disastrous for an area that relies so much on safe drinking water. Using 430 million litres of water (that will then turn into toxic waste disposed of elsewhere) is a proposal that shouldn't be considered lightly. Water is life in the NT and to sell it to the highest bidder at the expense of country, and community is shameful.

This must be stopped - and as the elected leaders to protect and make decisions in the best interest of your people, it is in your hands to do so.

I implore you to make the right decision - stop Origins fracking plans and ensure a strong and resilient future for communities and country in the NT.

Sincerely,

Stephanie Curley

Steph Curley
****
NSW 2095

Curro, Jonathan – Thursday, 11 August 2022 – 14:24:35

Subject	Stop Origin's Fracking Plans!
From	Jonathan Curro
Sent	8/11/2022 2:24:35 PM

To the Northern Territory Department of Environment, Parks and Water Security,

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate, and Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT.

Now, they've lodged an Environment Management Plan (EMP) as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into the EMP, it's even worse:

• They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas. But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

• They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions. Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

• They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. They will also produce 90 million litres of wastewater which they are planning to truck interstate.

• They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The

NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:
• Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);

• In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

• 535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If you approve Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Please don't just throw this submission in a GetUp pile! Traditional Owners' voices must be heard, they don't want 12 more fracking wells in their country, and neither do I.

Yours Faithfully,

Jonathan Curro
Seinfeld Cl, McDowall QLD 4053

Jonathan Curro
****
QLD 4053

Curry, Sally – Sunday, 14 August 2022 – 08:30:52

Subject	Stop Origin's destructive fracking proposal
From	Sally Curry
Sent	8/14/2022 8:30:52 AM

I, Sally Curry, am fortunate to live in Tasmania.
I am extremely concerned by the proposition of fracking, a practice that I believe is destructive of the environment.
Once fracking has occurred it is not possible to restore the damage, as is evident in so-called mine 'restoration'
It is that the Traditional owners of the Amungee Mungee pastoral station area are opposed to Origin's exploration plan because of threats to the water, the country and their cultural heritage.
Origin wants to use huge amounts of water and will create waste water - where will it go?
What will be the effect on the water that the first nations community relies upon?
I hope you will take the opportunity
to reject Origin's proposal while it is in the "exploratory" stage.
Thank you
Yours sincerely

Sally Curry
****
TAS 7178

Cursaro, Wayne – Saturday, 13 August 2022 – 19:53:39

Subject	NO FRACKING NO FRACKING NO FRACKING
From	Wayne Cursaro
Sent	8/13/2022 7:53:39 PM

It is pure corruption to contemplate fracking in the face of what science tells us about the chemicals used; and in the face of opposition from traditional owners; and in the face of global warming. Have the courage to do what is right for the country and never allow fracking in any part of Australia.

Wayne Cursaro
****
SA 5162

Curtis, Dale – Sunday, 14 August 2022 – 14:25:15

Subject	Origin Must Not Be Allowed to FRACK in the NT
From	Dale Curtis
Sent	8/14/2022 2:25:15 PM

Origin has lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a massive twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into their EMP, it's even worse…

They want to fast track disastrous gas production without the right licence: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licences", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production licence to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their

wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

Dale Curtis
****
NSW 2350

Curtis, Fiona – Sunday, 14 August 2022 – 18:01:11

Subject	Stop Origin's fracking plans!
From	Fiona Curtis
Sent	8/14/2022 6:01:11 PM

We are facing a global climate Armageddon.
This doesn't need proof. We can literally see it, feel it and experience it right NOW!
Our First Nations people have always been the first to be the brunt of the expansion of fossil fuel big industrial companies who render their land unliveable, causing long and short term illnesses that nobody else in the broader society notices.
I write out of sheer frustration and rage that fossil fuel companies are greedy and short sighted.
Enough is enough!
We must act TOGETHER to stop this irrational, disastrous behaviour caused by panic, greed, ignorance and lies.
We demand a stop to further irresponsible behaviour now.
Give the planet and especially the First Nations peoples a CHANCE.

fiona curtis
****
VIC 3500

Curtis, Robert – Sunday, 14 August 2022 – 14:43:08

Subject	Fracking
From	Robert Curtis
Sent	8/14/2022 2:43:08 PM

New Fracking Gas fields WILL defeat ANY CHANCE of meeting Co2 reduction targets .... and cause further climatic instability ... and environmental destruction .....Please reject further fracking field

Robert Curtis
****
NSW 2782

Curtis, Tom – Sunday, 14 August 2022 – 07:53:19

Subject	tomcurtis93@gmail.com
From	Tom Curtis
Sent	8/14/2022 7:53:19 AM

To: Northern Territory Department of Environment, Parks and Water Security.

Submission regarding approvals sought by Origin for hydraulic fracturing (fracking) projects.

There is insufficient evidence of the safety of fracking to justify permitting any further such activity in the Northern Territory. In addition, there is a climate emergency and we must radically reduce fossil fuel emissions rather than increase them. Finally, but equally importantly, many traditional owners in the Territory are entirely against fracking on their traditional country and their voices must be heard. Please take into account these points when making your recommendations.
Regards
Tom Curtis
Mount Ossa
Queensland
4741

Tom Curtis
****
QLD 4740

Curtis-Flynn, Bev – Saturday, 13 August 2022 – 15:36:49

Subject	Stop Origin fracking in the NT
From	Bev Curtis-Flynn
Sent	8/13/2022 3:36:49 PM

NT Dept of Environment, Parks and Water Security.

I care very much about the fragile state our country and climate are currently experiencing. I am from Brisbane and care deeply about the future my grandchildren face and also the devastation experienced by the traditional owners of this country because of fracking, mining and a general disregard for nature.

Fracking needs to be discontinued and the NT needs to look towards renewable energy and renewing faith in traditional owners and what they can teach about caring for the land.

Origin wants to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They haven't implemented all the recommendations from the crucial Pepper Inquiry

Once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Please stop this and all further fracking in the NT.

Bev Curtis-Flynn
****
QLD 4070

Cusack, Margaret – Friday, 12 August 2022 – 15:12:32

Subject	margaret.cusack@sosj.com.au
From	Margaret Cusack
Sent	8/12/2022 3:12:32 PM

I am opposed to any more fracking and danger to our water supplies.

Margaret Cusack
****
NSW 2400

Czaja, Marika – Saturday, 13 August 2022 – 15:03:36

Subject	Stop Origin's criminally reckless fracking plans!
From	Marika Czaja
Sent	8/13/2022 3:03:36 PM

It sadly does seem that your department has very little respect for our Indigenous people, their culture and connection to Country - but surely you must realise what effect fracking has on the planet and our very survival?! What are you planning to do to escape the looming climate catastrophe? Are you going to join our "beloved" Billionaires who think they will be able to live on the Moon or Mars? Even if you do not care about your fellow citizens, I do hope that you will think about the future - if any - of your children and grandchildren. Sincerely

Marika Czaja
****
ACT 2604

Daby, Yvonne – Saturday, 13 August 2022 – 07:15:02

Subject	Reject Origin's submission for 12 new fracking drill sites.
From	Yvonne Daby
Sent	8/13/2022 7:15:02 AM

Stop fracking Australia. Climate change is real and it is time that the NT government understood their complicity in ruining our environment. Profit for companies and governments is not more important than the environment for our children
Secondly, Traditional Owners have not consented to this disgraceful incursion on their lands. As is seen elsewhee, fracking destroys the land.
Please reject Origins submission for 12 new fracking drill sites.
Respectfully
Yvonne Darby

Yvonne Daby
****
NSW 2041

Dacy, Deborah – Friday, 12 August 2022 – 14:54:43

Subject	Stop Origins fracking plans
From	Deborah Dacy
Sent	8/12/2022 2:54:43 PM

Please stop new drills for fracking in Northern Territory from Origin because of increased environmental damage and also damage to cultural heritage.
I live in Queanbeyan NSW and there are a very large number of bushfires and floods which are caused largely by environmental damage
Deborah Dacy

Deborah Dacy
****
NSW 2620

Dadds, Leighton – Friday, 12 August 2022 – 09:29:22

Subject	Stop Origin fracking in the N.T.
From	Leighton Dadds
Sent	8/12/2022 9:29:22 AM

Good Morning,
Why do the Australian people need more fracking?
The oil/gas companies have natural gas wells across the top of Australia that have been capped to manipulate pricing.
In fact BHP have a number of natural gas wells capped, that are off the south east coast of Australia. These wells have been capped since the 1960s, from when BHP brought in Esso(nowExxon) to set them up.
What would be a much better plan would be to have these manipulating companies taking gas from their capped wells.
That would alter the supply/demand curve to benefit the Australian people.
We also need a gas reservation policy to keep gas in Australia, again for the benefit of the Australian people. Just like the W.A. government had done.
Sincerely yours,
Leighton Dadds.

Leighton Dadds
****
SA 5162

Dagg, Diana – Friday, 12 August 2022 – 14:29:39

Subject	Stop FRacking Drilling in the NT
From	Diana Dagg
Sent	8/12/2022 2:29:39 PM

Stop fracking drilling in the NT
The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

diana dagg
****
NSW 2040

D'agostino, Vincenzo – Saturday, 13 August 2022 – 17:14:25

Subject	Stop Origin from fracking the planet
From	Vincenzo D'agostino
Sent	8/13/2022 5:14:25 PM

Stop for fracking moment and invest in renewables not millions of years old gas from the dinosaurs age.

Vincenzo D'Agostino
****
VIC 3094

Daish, Caroline – Saturday, 13 August 2022 – 22:54:01

Subject	Stop Origin's fracking plans
From	Caroline Daish
Sent	8/13/2022 10:54:01 PM

To the Northern Territory Department of Parks and Wildlife and Water Security,
I am 55 years old and grew up in the country next to Australia's largest river. For years I have watched the degradation of this water supply. These new fracking plans threaten water, cultural heritage, and our climate.
I am asking the NT Department to reject Origin's EMP.
your sincerely
CarolineDaish

Caroline Daish
****
SA 5157

Dalcastello, Linda – Friday, 12 August 2022 – 21:24:24

Subject	Stop Origin's Fracking Plan
From	Linda Dalcastello
Sent	8/12/2022 9:24:24 PM

New fracking drills in Northern Territory will threaten water, cultural heritage and our climate. Traditional owners are demanding an end to these fracking plans, which I support.
We cannot allow a company to destroy our country for their own profits whilst going against the grain of change to cleaner, renewable and sustainable energy. Origin say they are supportive of green energy but this goes completely against that support and shows they only care about profits.
You must listen to the traditional owners and the majority of Australians who do not support fracking a dangerous and damaging industry that does nothing more than add more problems for all Australians.
I am also personally concerned about the environment, climate and the wildlife that live in these areas.

regards
Linda Dal Castello

Linda DalCastello
****
VIC 3925

Dale, Elizabeth – Saturday, 13 August 2022 – 09:17:19

Subject	Stop Origin's fracking plans
From	Elizabeth Dale
Sent	8/13/2022 9:17:19 AM

To the Northern Territory Department of Environment a, Parks and Water Security,

I understand that Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Origin have not implemented all the recommendations from the crucial Pepper Inquiry whereby back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking.

But right now, Origin wants to go ahead with fracking without all recommendations implemented.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

So it's very simple. As long as fracking impacts our climate, water, and communities, it cannot be allowed.

Kind regards,
Elizabeth Dale

Elizabeth Dale
****
NSW 2576

Daley, Lois – Sunday, 14 August 2022 – 08:51:29

Subject	THE INTRUSION/DAMAGE/ON LAND THAT DOES NOT BELONG TO ORIGIN ENERGY IT BELONGS TO THE FIRST PEOPLES OF THE LAND
From	Lois Daley
Sent	8/14/2022 8:51:29 AM

I TOTALLY REJECT THE ORIGIN ENERGY 'S PLANS TO DRILL IN THESE PRECIOUS LANDS I HAVE NEVER BEEN TO THIS AREA PERSONALLY BUT SEEING THE PHOTOS OF THE TERRAIN AND THE PRECIOUS FEELINGS IT IS FOR THE ABORIGINAL INHABITANTS I CAN BE WITH THEM

Lois Daley
****
VIC 3207

Daley, Michael – Sunday, 14 August 2022 – 14:25:05

Subject	Stop Origin's Fracking Plans
From	Michael Daley
Sent	8/14/2022 2:25:05 PM

To the Northern Territory Department of Environment, Parks and Water Security,
I'm Mick Daley, a journalist and musician who frequently tours through the Territory. I've done a lot of stories on the risks posed by fracking and on the very real renewable alternatives we have - and on the consequences of failing to limit our national carbon footprint.
I know that fugitive emissions count for more than double those listed by fracking companies, that they fail to list fugitive emissions in their carbon budgets and that these pose very grave risks to the planet.
I know that the Traditional Owners do not want this on their land, and that any First Nations People who agree to it have been paid off by the fracking companies.
I know that Origin have lied about their carbon output and would release a massive carbon footprint of over 2 million tonnes of emissions - without even counting their fugitive emissions from pipelines, trucks, wellheads and mineshafts.
I know that most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

I know they want to use huge amounts of precious water: 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.
And they want to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA).

This must not be allowed. For future generations please put a stop to this.
Mick Daley, Sydney NSW

Michael Daley
****
NSW 2046

Dalla, Viki – Saturday, 13 August 2022 – 18:04:52

Subject	Stop Origin's fracking plans in the NT
From	Viki Dalla
Sent	8/13/2022 6:04:52 PM

Fracking is a very bad way to treat our landscape. Traditional owners are opposed. This should not be allowed to happen. Look at the terrible consequences that happened in the USA, rendering land useless.

Viki Dalla
****
NSW 2680

Daly, Ann – Thursday, 11 August 2022 – 16:42:41

Subject	Stop Origins Fracking plans
From	Ann Marie Daly
Sent	8/11/2022 4:42:41 PM

Oh how easy it has become to forget our basic needs in life and become slaves to money. Oh how we take for granted our air, water, plant food and natural medicines. But when the day comes of water shortages, it will be remembered how thousands of gallons of the worlds most precious resource was squandered so the few could line their pockets. Remember now and protect what is natural and respect the Traditional Owners. You would not burn dollar bills as you have been brainwashed into thinking this man made currency is the most important resource on Earth but you are wrong because water is our life source and please remember where you come from. Mother Earth.

Ann Marie Daly
****
NSW 2323

Daly, Anya – Sunday, 14 August 2022 – 17:53:01

Subject	Stop Fracking and destroying Country!
From	Anya Daly
Sent	8/14/2022 5:53:01 PM

Time to wake up Origin! I will never be using you as a provider unless you clean up your act!

Anya Daly
****
VIC 3056

Daly, Paul – Thursday, 11 August 2022 – 15:25:02

Subject	NT fracking plans !!!
From	Paul Vincent Daly
Sent	8/11/2022 3:25:02 PM

Hasn't there been enough desecration of our continent already. It isn't all about votes or your super !!

Regards

Paul

Paul Vincent Daly
****
QLD 4350

Dar, Maital – Thursday, 11 August 2022 – 18:53:53

Subject	Stop fracking in NT
From	Maital Dar
Sent	8/11/2022 6:53:53 PM

Dear NT Department of Environment, Parks and Water Security,

I am writing to express my hope that you won't approve Origin's fracking plans.

I am from NSW where we are experiencing the secondary impacts of climate change, and at this inflection point in the struggle to contain climate change, we should not be continuing operations which both exploit fossil fuels and cause damage to Australia's ecosystems. These business-as-usual activities are moving us in the wrong direction - we need to be moving away from retrograde technologies and towards cleaner energy options. Despite the war in Ukraine, the markets for coal and gas are declining, and it's not your job to prop up Origin's desperate attempts to cash in.

Aside from the global implications of further gas drilling -- at a time when world economies are shifting away from coal and gas -- it is incumbent upon you to consider inputs of the local communities and to follow their guidance and needs when it comes to water usage and water rights.

Thank you,
Maital

Maital Dar
****
NSW 2028

Darmanin, David – Sunday, 14 August 2022 – 14:06:32

Subject	Stop Origin Fracking Plans
From	David Darmanin
Sent	8/14/2022 2:06:32 PM

Northern Territory Department of the Environment and Water Security.
Origin cannot be allowed to go ahead with plans to commence fracking which would destroy the environment in the planned areas of the Northern Territory.
Barbara Darmanin

David Darmanin
****
NSW 2118

Daurizio, Marc – Saturday, 13 August 2022 – 16:14:47

Subject	Please disallow Origin's plans for new fracking
From	Marc Daurizio
Sent	8/13/2022 4:14:47 PM

To the OIC of the Northern Territory Government Department of Environment, Parks & Water Authority:

I am writing to register my strongest possible objections to Origin's proposed expansion of their fracking activities.

This is totally wrong on many levels.

The practice of fracking is absolutely vile and an environmental disaster. I find it difficult to believe anyone with a conscience would find this acceptable.

I also think to allow more fracking in the proposed areas is outrageously disrespectful to Australia's First Nation people and Australians generally.

Please don't allow this to happen. The future of our younger generation is looking increasingly bleak. Please leave them with some beauty in the Northern Territory and untainted groundwater.

Thanks for your time.

Kind regards,

M. D'Aurizio

Marc Daurizio
****
NSW 2480

Davey, Roger – Monday, 15 August 2022 – 01:49:11

Subject	Origin Energy Program
From	Roger Davey
Sent	8/15/2022 1:49:11 AM

Dear Hon Environment Minister Lauren Moss

My name is Roger John Davey and I have lived and worked in the NT since June 1966.

I am au fait with many of the changes that have occured over that period.
Some were for the better but ALL are still subject to a lack of continuity wrought by service in the NT being a requirement for promotion in the home
States in both the Commercial and Public Service Sectors of our economy.

I am extremely concerned that the Origin Amungee NW Delineation Environmental Management Plan...
...highlights a complete lack of adequate scrutiny of the operations of sub-contractors...

...releases half-a-million tonnes of Greenhouse Gas emissions over 3 years...
...undermines the integrity of the NT Government regulatory system...

Under the crucial Pepper Inquiry Recommendations, the NT government is committed to a complete scientific baseline assessment (SREBA) of the region.

As minister, please...

...stop PRODUCTION by STEALTH
Origin Energy holds an Exploration Permit only, which does not permit the production and sale of gas.
Origin Energy is fully aware that selling gas under this permit is not permitted under NT Law.
They propose to drill, frack two wells simultaneously and test for 730 days if permitted to use (sell) the gas for onsite power.
For this blatant disregard of NT Law, please refer the entire EMP to the EPA for a full EIS

...conserve our BIODIVERSITY
Origin Energy's proposal does not adequately consider...
...the risk to the 15 threatened species, (Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat).
...an unacceptable risk to water security (16 groundwater bores)...
...clearing 60km of seismic lines and an additional 111 hectares for infrastructure...
...monitoring and protection of the newly discovered endemic stygofauna (invertebrates living in groundwater).

...protect our CLIMATE
Half-a-million tonnes of direct, 'scope 1' greenhouse gas emissions, will be released (1.5 times The Alice annual GHG)...
...'scope 3' emissions have not been addressed...
...no demonstration that the extensive well use is necessary or consistent with keeping impacts as low as reasonably possible (ALARP)...
...Origin Energy's pretension that selling gas will reduce emissions, is a lie...
...keeping wells open longer than necessary, creates a carbon footprint of 2 million tonnes CO2-e with most being 'scope 3' rather than 'scope 1'.

These emissions will still count towards the NT emissions targets.

...value our WATER
Origin Energy wants to drill and frack 2 wells over the ********* Wet Season.
Origin Energy ignores the severe wet season environmental risks resulting in flooding, wastewater overflow, resultant contamination...
Origin Energy needs 430 million litres of water from the Gum Ridge Formation, to drill and frack 12 wells...
Origin Energy will produce 90 million litres of wastewater which will be trucked interstate.

I call on you Minister...
...Please reject this EMP due to the impacts outlined above, and refer it to the Environment Protection Agency
under the Environment Protection Act for a full and thorough Environmental Impact Statement.
A proposal of this scale with it's unacceptable risk to water security, should not be allowed to proceed...

...so please take my concerns into account and follow the progress of this application closely.

Kind regards,

Roger J Davey _ _ Herbert _ _ <********** <mailto:**********> > _ _ 8988 5145 and 0429 599 193

Davidson, H – Sunday, 14 August 2022 – 19:56:02

Subject	Please protect the environment, stand up to Origin
From	H Davidson
Sent	8/14/2022 7:56:02 PM

To NT Dept of Environment, Parks and Water Security

We are very aware of the damage fracking has on the environment, and the impact on environment and climate fossil fuels have. It is therefore incredibly reckless to permit any fracking. Origin should not be allowed to proceed, nor should any other companies who might apply.

It is time for companies to invest in alternative energy. It is well beyond the time for government to protect current and future citizens.

Please refuse any and all fracking permits.

Thank you

H Davidson
****
NSW 2257

Davidson, Lola – Sunday, 14 August 2022 – 11:31:31

Subject	Stop Origin's expanding its fracking
From	Lola Davidson
Sent	8/14/2022 11:31:31 AM

Northern Territory Department of Environment, Parks and Water Security,
Dear Minister,
I write to protest about plans for fracking in the Carpentaria region. Quite apart from obviously worsening the climate crisis threatening the planet, it threatens water supplies in the driest continent on earth, period La Nina's notwithstanding. Just because rain is coming down at the moment does not meant that we can afford to neglect the recharging of our precious aquifers, which have seriously depleted through irresponsible use in past decades. I call on you to reject Origin's damaging project now.
Yours sincerely,
Lola Davidson

Lola Davidson
****
NSW 2038

Davidson, Susan – Sunday, 14 August 2022 – 08:23:53

Subject	Reject Origin's fracking applications
From	Susan Davidson
Sent	8/14/2022 8:23:53 AM

To the NT Depertment of Environment, Parks and Water Security,

I strongly object to, and urge the Department to reject, Origin's applications for fracking sites in the NT.

Fracking exacerbates climate change, damages the environment and imperils precious water supplies.

Fracing on Aboriginal lands, without the consent of all impacted communities, is unacceptable to the vsst majority of Australians and flies in the face of reconciliation.

Please do not allow Origin to establish theses proposed fracking sites.

Yours sincerely,
Susan Davidson

Susan Davidson
****
ACT 2612

Davidson, Wendy – Sunday, 14 August 2022 – 15:16:26

Subject	No to Fracking in the NT
From	Wendy Davidson
Sent	8/14/2022 3:16:26 PM

To: Northern Territory Department of Environment, Parks and Water Security

I, a senior citizen, am horrified that any government department would consider fracking to rob our country of its resources. What is on, in and above the ground belongs to every Australian, not some fossil fuel company. The UN has said no new coal, oil or gas deposits should be commenced if we want to leave an excuse for a liveable world for those who follow us. The planet is already rocketing towards being unliveable because of mankind's desire to extract as much of its resources as quickly as possible, all for the purpose of making profits.

The local people have been fighting to stop the fracking from going ahead. They have been fighting for years, now the rest of Australia is getting behind them.

NO FRACKING anywhere in Australia. It is not worth the damage it will do to our planet - we are all connected.

Wendy Davidson
****
NSW 2283

Davies, Gawaine – Saturday, 13 August 2022 – 14:13:32

Subject	Don't allow Origin to Frack
From	Gawaine Davies
Sent	8/13/2022 2:13:32 PM

Please do not allow Origin to expand it's fracking in the Territory. The UN has made it clear that we cannot afford to have any new coal and gas extraction, and in the NT fracking will have a major impact on water, and on country.

Gawaine Davies
****
NSW 2038

Davies, Mary – Sunday, 14 August 2022 – 15:42:21

Subject	Disapproval of Origin Energy's E M P
From	Mary Davies
Sent	8/14/2022 3:42:21 PM

To the Secretary, the NT Department of Environment, Parks & Water Security.
Dear M/s or Sir,
I am old. I grew up in the countryside breathing fresh air and enjoying the native fauna & flora. Now I am very concerned, not only for my descendants, but for all people everywhere. For years we have been warned about the danger of emissions from petroleum & gas.
Knowing that Origin Energy B2 Pty Ltd have submitted an Environmental Management Plan for the Amungee Program I feel compelled to tell you that I believe the impact of their planned activities will be unacceptable. There will be all the infrastructure construction that will destroy the natural environment, and produce emissions of CO2.
AS well as these emissions I cannot see that in any way the extraction of gas will reduce emissions. There will be the process of extraction, then transportation. Wherever the gas is finally used there will be further emissions.
That's the environment and gas. What about the use of fresh water & the disposal of toxic waste water?
Aboriginal people have cared for this land for thousands of years. They can foresee the damage this fracking activity will cause. It will demand the use of huge amounts of available water and will produce a great deal of polluted waste water. Where can it be disposed of safely?
I cannot see that this activity will in any way help to reduce the amount of pollutants in our atmosphere. Please do not accept this EMP. Maybe you can encourage the company to build solar or wind farms instead?!!
I am
Yours sincerely,
Mary Davies.

Mary Davies
****
VIC 3355

Davies, Suzanne – Monday, 15 August 2022 – 09:22:52

Subject	Stop fracking
From	Suzanne Davies
Sent	8/15/2022 9:22:52 AM

We must look after and care for our land not destroy it. Respect our history and our unique land and animals.

Suzanne Davies
****
NSW 2263

Davis, Caroline – Thursday, 11 August 2022 – 16:03:50

Subject	Please stop Origin's dangerous fracking plans
From	Caroline Davis
Sent	8/11/2022 4:03:50 PM

It is hard to believe, with the existential dangers of climate change, that any company would put greed before the lives of this and future generations - if there are to be some..every day there is more dire news. Please listen to the voices of those who care for our precious earth and its inhabitants.

Caroline Davis
****
NSW 2535

Davis, Elizabeth – Friday, 12 August 2022 – 15:43:08

Subject	Stop the new fracking drills.
From	Elizabeth Davis
Sent	8/12/2022 3:43:08 PM

Northern Territory Department of Parks and the Environment.

I am extremely disappointed that a private Energy Company - Origin - which has a very bad track record for not meeting the appropriate emission records and which is failing to meet the standards required to enable Australia to reach the Paris agreement - is once again ignoring the wishes of the Traditional Owners by attempting to start new fracking drills.
As a scientist I am amazed that the damage done by fracking is being ignored when there is so much evidence showing how widespread the deleterious effects on the environment are.

Elizabeth Davis
****
NSW 2048

Davis, Leanne – Saturday, 13 August 2022 – 13:37:51

Subject	Origin Energy must not frack the NT
From	Leanne Davis
Sent	8/13/2022 1:37:51 PM

To: Northern Territory Department of Environment, Parks and Water Security

Origin Energy must be stopped from fracking in the Northern Territory. This method of gas extraction will permanently damage aquifers and result in water scarcity and pollution for Territorians. A company that is already disregarding Government regulations cannot be trusted to obey them in the future !

It has been demonstrated that virtually all gas wells leak methane at the end of their useful lives. These fugitive emissions will exacerbate the rate of global warming which is threatening human existence.

Origin Energy is not behaving like a good corporate citizen. Australians are fed up with governments who prioritise corporate greed over environmental sustainability.

Yours faithfully,
Leanne Davis

Leanne Davis
****
NSW 2480

Davis, Nigel – Saturday, 13 August 2022 – 17:02:46

Subject	nigeldavis87@gmail.com
From	Nigel Davis
Sent	8/13/2022 5:02:46 PM

Fracking is not the correct way forward and presents extreme risks for contaminating the local water supply. Origin is not on board withe the current climate stance and should be stopped immediately.

Nigel Davis
****
VIC 3230

Davis, Tedi – Friday, 12 August 2022 – 16:03:39

Subject	Halt fracking for energy.
From	Tedi Davis
Sent	8/12/2022 4:03:39 PM

Studies show fracking for gas is dangerous to the environment and community.

Frack mining is permanently destroying the Land.

In NNSW we have outlawed fracking for years.
In Qld we have seen the damage it does.

Stop fracking for ever.
You cannot live in a fracked environment.
There is no planetB.

Hundreds of years before the industrial revolution, the Hopi shamans predicted the five claws of a WITCH called WENDIGO.
Their visions have come to haunt peoples.
The destruction of the subsurface of Earth by mining is just one claw, leading to irreversible damage.

Energy is needed, but not this f##king way.

Tedi Davis

Tedi Davis
****
NSW 2001

Davison, Helen – Thursday, 11 August 2022 – 15:46:56

Subject	No frackers
From	Helen Davison
Sent	8/11/2022 3:46:56 PM

Climate change is affecting all parts of Australia now even the Northern Territory! Please don't allow gas companies to mess things up more for their profit. Take some responsibility. Think of your children and their children and the scary future they face due to the rapaciousness of companies like Origin who answer only to faceless, greedy shareholders.

Please also consider the tradition owners of this land. Who will pick up the pieces when these companies have left their mess behind (like others have done at Jabiru)?

If you, the NT Government, approve these plans, you would not only be paving the way for Origin to frack and destroy country, water, and our climate, but you would be setting a horrifying precedent for other fracking corporations to do exactly the same.

With hope for the future

Helen Davison (a recent visitor to your beautiful area)

Helen Davison
****
VIC 3121

Dawes, Pamela – Sunday, 14 August 2022 – 16:32:00

Subject	Please Do Not allow fracking which can poison the water source
From	Pamela Dawes
Sent	8/14/2022 4:32:00 PM

Water is the lifeblood of the interior and is of paramount importance to life both human and wildlife.

Fracking has the potential to poison that water source and must not be allowed under any circumstance. It also poisons the air and creates greenhouse gases which will speed up climate change.
The resulting weather events around Australia and the world will cause immeasurable damage to infrastructure and displace people from their homes as has happened recently with fires, floods and landslides.
Please stop these fracking industries before they start.

Pamela Dawes
****
NSW 2100

Dawson, Janet – Thursday, 11 August 2022 – 15:59:19

Subject	Origin Energy's fracking plans
From	Janet Dawson
Sent	8/11/2022 3:59:19 PM

to the Northern Territory Government

I am writing to express my deepest concern at Origin Energy's plans to open twelve - TWELVE - new fracking drills in the land under your care.

The immediate threats posed by these wells to water supplies cannot be overlooked.

Add to this the wider effect of continued supply and usage of fossil fuels on global climate.

If this was not enough, Traditional Owners are deeply concerned at the threat of these proposed wells to country and cultural heritage.

Traditional Owners have been protecting country - and climate - for millennia. It is time we listened to their wisdom.

Please set a positive precedent by denying these proposed wells. For the sake of our children and grandchildren.

Thank you,
Rev Janet Dawson

Janet Dawson
****
NSW 2444

Day, Graham – Sunday, 14 August 2022 – 14:27:33

Subject	Say No To Origins Fracking Application
From	Graham Day
Sent	8/14/2022 2:27:33 PM

Our Traditional Owners have demanded No New Fracking Drills In NT to preserve there pristine land.
I also support our first nations people in having the right to say no and therefore stop companies hell bent on destroying their right to protect country.
People word must rule over individual profit.
Thanks for this email, I hope it helps.

Graham Day
****
QLD 4214

Day, Ron – Thursday, 11 August 2022 – 17:23:30

Subject	Please stop Origin' fracking plans immediately
From	Ron Day
Sent	8/11/2022 5:23:30 PM

To the Northern Territory Department of the Environment, Parks and Water Security.

Origin threatens to create huge environmental and water safety hazards by its plans to create 12 new wells. As a concerned Australian, I urge you to seriously consider banning Origins reckless plans. By continuing their fracking, they will do irreparable damage to water, country and climate. Their precedent would convince other companies to do the same in NT.

The NT, Australia, the world and all the people in it will suffer the unacceptable results of their selfish actions. We don't deserve to suffer the results of their attempts to increase their bottom line through behaviour that will eventually affect us all.

Dr Ronald Day
Comley Street, Zilzie, Qld. 4710

Ron Day
****
QLD 4515

Day, Sophie – Friday, 12 August 2022 – 16:24:10

Subject	No fracking in the NT
From	Sophie Day
Sent	8/12/2022 4:24:10 PM

Dear Northern Territory Department of environment, parks and water security.
Please do not allow Origin to destroy Australia's fragile and precious ecosystems in the Northern Territory by allowing them approval to frack in more locations. Already climate change is causing havoc with our natural weather cycles which is only set to worsen. Any additional projects that see greenhouse gases release into the atmosphere is foolhardy. Therefore for the good of the local ecosystems and global ecosystems this fracking should not be approved.
Kind Regards, Sophie Day

Sophie Day
****
VIC 3070

Dean, Isabel – Saturday, 13 August 2022 – 15:10:23

Subject	A Plea to stop Fracking by Origin on NT Traditional Land.
From	Isabel Dean
Sent	8/13/2022 3:10:23 PM

To NT Dept of Environment, Parks and Water Security.

If Origin is allowed to Frack on country awned by Traditional landholders, the destruction of Country, Heritage and especially Water will be immense.
As we know that this will quickly become a dead asset and is only being rushed through for commercial (not community) gain, I ask that you listen to the demands by Traditional Owners and stop this money-grubbing pressure. The permanent damage is too great for any so called benefits.

Yours faithfully
Isabel M. Dean

Isabel Dean
****
VIC 3666

Deaves, Kay – Friday, 12 August 2022 – 08:31:55

Subject	Fracking of the Northern Territory must stop!!
From	Kay Deaves
Sent	8/12/2022 8:31:55 AM

My name is Kay Deaves and I live in the Southern Down area of Queensland. I have seen the devastation caused by fracking, and I believe it should be condemned outright.
It s deplorable that firms like Origin are eager to destroy our climate, bird & animal habitat and our precious water simply for profit.
Projects like these never end well.
We need to protect our beautiful country and its fragile environment so that future generations can enjoy what Australia has to offer.

Kay Deaves
****
QLD 4305

Dee, Kay – Thursday, 11 August 2022 – 14:19:34

Subject	Stop Origin's fracking plans NOW!
From	Kay Dee
Sent	8/11/2022 2:19:34 PM

Please - don't allow any fracking on NT lands. Fracking emits methane - worse than C02 emissions. It will also use up lots of precious water resources. Given climate change, we cannot afford either of the above. Please deny commencement of these projects: Origin and other companies are earning billions at Australian's expense. This must stop now. Labor - please act NOW!

Kay Dee
****
NSW 2069

Deegan, Jane – Thursday, 11 August 2022 – 14:58:37

Subject	Please stop Origin's fracking plans
From	Jane Deegan
Sent	8/11/2022 2:58:37 PM

I am a GP who has been working for many years in Top End Aboriginal Health Services, most recently in Katherine. I am deeply concerned about Origin's plans to increase fracking, for a number of reasons.
Firstly it will inevitably result in hugely increased greenhouse gas emissions. We are already seeing the effects of climate change on both the physical and mental health of populations around the world, including here in Australia. I consider this to be a public health emergency, and one which needs strong action now to drastically reduce our emissions.
Secondly, the risk to the groundwater is a risk not worth taking, as any contamination of the groundwater will be potentially irreversible.
Thirdly, I am aware that many of the Traditional Owners are not happy with fracking occurring on their country and I believe their wishes should be respected.

Jane Deegan
****
VIC 3056

Dekeyser, Didier – Sunday, 14 August 2022 – 13:09:01

Subject	fracking
From	Didier Dekeyser
Sent	8/14/2022 1:09:01 PM

Stop it Thks

Didier Dekeyser
****
NSW 1040

Delaney, Annie – Saturday, 13 August 2022 – 14:05:50

Subject	Stop Origins fracking and protect the environment
From	Annie Delaney
Sent	8/13/2022 2:05:50 PM

I strongly object to the plan of Origin to open twelve new fracking drills in the NT. The traditional owners do not support the fracking drills and if the NT government approves these plans, it will pave the way for Origin to destroy the country, water, and the climate.
Approval of this project will be setting a horrifying precedent for other fracking projects to go ahead. In a time of a climate emergency, we don't need more fracking we need the protection of land, water, and climate even more.

Annie Delaney
****
VIC 3013

Delbridge, Robyn – Thursday, 11 August 2022 – 15:48:29

Subject	Stop new fracking in NT
From	Robyn Delbridge
Sent	8/11/2022 3:48:29 PM

Dear Northern Territory Department of Environment, Parks and Water Security;
I call on you to deny all applications from Origin for new fracking in the Northern Territory. The Traditional Owners of the land are staunchly defending their country from Origin, and any precedent that may occur as a result of any approval.

Please block new fracking in the NT

Robyn Delbridge

Robyn delbridge
****
VIC 3095

Demetriou, Maria – Saturday, 13 August 2022 – 06:54:34

Subject	Stop origins fracking plan
From	Maria Demetriou
Sent	8/13/2022 6:54:34 AM

By allowing fracking you allowing the destruction of our earth. It is short sighted and counterproductive in the long term. There are solutions to our energy needs that do not involve the destruction of the earth.

Maria Demetriou
****
NSW 2110

Denham, Lorelle – Saturday, 13 August 2022 – 17:00:17

Subject	Fracking is only the start of other problems for our world
From	Lorelle Denham
Sent	8/13/2022 5:00:17 PM

Fracking is not the answer to anything, it is the start of other problems with our world and its longevity. Please stop.

Lorelle Denham
****
VIC 3373

Dennis, Elwyn – Sunday, 14 August 2022 – 11:33:54

Subject	Fracking on Aboriginal land
From	Elwyn Dennis
Sent	8/14/2022 11:33:54 AM

It is well past time to abandon the patronising attitudes that allow Aboriginals rights to their own land until we decide we want something from it.

Elwyn Dennis
****
VIC 3380

Denson, Louise – Saturday, 13 August 2022 – 06:05:44

Subject	New fracking projects in the NT
From	Louise Denson
Sent	8/13/2022 6:05:44 AM

To whom it may concern in the NT Department of Environment, Parks and Water Security:

I am writing as a concerned citizen of Australia regarding the Origin plans to open 12 new fracking exploration sites on the Amungee Mungee pastoral station. Origin's plan is to fast track negotiations for the sale of any gas reserves discovered at these sites.

Origin does not have the requisite permissions and licenses to sell the gas extracted from the exploitation of these potential sites. However, clearly the pressure on the NT government to grant production licenses will be intense if the gas from the sites has already been contractually guaranteed to a buyer, whether foreign or domestic.

My objections to this, and to every new fossil fuel project in Australia are simple and obvious.

1) We are in a climate emergency and no new fossil fuel projects can be undertaken if we are to meet our COP 26 emissions reduction targets; but more to the point, if the planet has any hope of continuing to sustain life beyond the next 80 years.

2) These projects take enormous amounts of water - 430 million litres of water will be needed to drill and frack the 12 wells in Origin's proposal. We live on the driest continent in the world, and draining the countries aquifers, upon which millions of people's lives and livelihoods depend, is simply shortsighted and unconscionable.

3) No matter what environmental restrictions and legislation are meant to circumscribe these projects, there has never been and there never will be a fossil fuel company which does not cut corners, cook the books, lie to the oversight agencies, the government and the Australian people, and ultimately leave a large environmental disaster for Australian taxpayers to clean up. At least Origin's exploration and appraisal manager, Alexander Côté, has had the decency to admit that they have no plan to manage toxic wastewater. The First Nation's people on those lands risk losing their source of fresh water, and the people of Australia will be saddled with the problem of disposing of millions of gallons of contaminated water.

On these grounds, and more that I don't have room to enumerate, I am asking you to reject Origin's Environment Management Plan, and to deny them permission to launch the 12 exploratory wells project which can only lead to devastation of those NT environments, and further deterioration of the health of the planet.

Sincerely,
Dr M. L. Denson

Louise Denson
****
TAS 7026

Denton, Karen – Sunday, 14 August 2022 – 18:55:05

Subject	Stop Origin's Frackin plans
From	Karen Denton
Sent	8/14/2022 6:55:05 PM

To the NT Government

I implore you to stop Origin's frackin plans. If these plans are approved it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
They are also ignoring the wishes of the Traditional Owners which we have done for too long now. If we has followed the suggestions of our Traditional Owners our country & the climate wouldn't be in the mess it's in.
Please stop this before we destroy our more of our cultural heritage is destroyed forever
Kind regards
Kaz Denton

Karen Denton
****
VIC 3095

Derby, Martin – Saturday, 13 August 2022 – 16:56:05

Subject	STOP Origin's Reckless Fracking Plans
From	Martin Derby
Sent	8/13/2022 4:56:05 PM

Dear Northern Territory Government

I am completely opposed to fracking because of damage to our environment, our wildlife, the climate and total disrespect to Traditional Owners who have cared for Country for thousands of years. Origin is a greedy company, it has and will always take shortcuts to increase its profits at a cost to our country.

Natural disasters are getting worse and all Australians are effected by these events. We must as a nation stand against these companies to protect Australia.
The State of Environment Report released a few weeks ago made it clear- our environmental decline is ‘alarming’ and ‘devastating’.

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate. And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Origin Energy have lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve (12) new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters. This will magnify this destruction. They want to fast track disastrous gas production without the right license. This is absolutely wrong!

They haven't accounted for or addressed the full climate impacts. This massive carbon footprint would be over 2 million tonnes of emissions and most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem!

Even 535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs. This does not include scope 3 emissions. This action does NOT support Australia's Climate Bill.

Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. Origin have no plan to manage toxic wastewater. They will also produce 90 million litres of wastewater which they are planning to truck interstate.

Water is a valuable and limited resource in Australia and it must not be wasted. The NT Government must take into consideration this horrific use and wastage.

Origin Energy haven't implemented all the 135 recommendations from the crucial Pepper Inquiry to mitigate the environmental, social, cultural and economic risks associated with

fracking. Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA).

Their attitude is one of complete selfish disregard of our country and the negative results from their fracking. Moreover they are showing contempt for proper processes of approval and licenses.

This is an environmental and climate disaster!

The NT Department will review all submissions as part of their preliminary assessment of Origin's Environmental Management Plan for these new fracking drills.
Origin's environmental plans are inadequate because of water wastage, huge CO2 emission levels, damage to Aboriginal land, lack of commitment to recommendations of the Pepper Inquiry and arrogant disregard to follow processes without correct licenses in place. Approval will lead the way to open up 12 new fracking drills. I am very, very concerned as to the negative consequences for our country.

I am respectfully asking and urging you the NT Government to reject Origin's EMP to protect our country.

Yours sincerely
Martin Derby

Martin Derby
****
NSW 2086

Dettman, Mary – Sunday, 14 August 2022 – 14:18:15

Subject	Stop the Fracking
From	Mary Dettman
Sent	8/14/2022 2:18:15 PM

Origin cannot frack on NT land of the traditional owners...but if the decision makers say yes then it must come with the clause below.....

Origin should pay for cost restoration of the land if fracked plus a handsome share of the profits to the traditional owners if the NT approves the plans.

Mary Dettman

l

Mary Dettman
****
VIC 3193

Deurzen, Louisa – Sunday, 14 August 2022 – 04:35:35

Subject	Stop fracking in Northern Territory
From	Louisa Van Deurzen
Sent	8/14/2022 4:35:35 AM

Please listen to the experts our First Nation people and stop fracking in the Northern Territory . Please listen, it is important to us all, for our grandchildren. Why is it so hard for our politicians to listen !

Louisa van Deurzen
****
QLD 4556

Devine, Wolfgang – Thursday, 11 August 2022 – 17:01:03

Subject	Stop origin's fracking plans
From	Wolfgang Devine
Sent	8/11/2022 5:01:03 PM

While we hear the news that the drinking water for many Aboriginal people is loaded with dangerous amounts of uranium, fluoride etc. we cannot tolerate further mining operation that will endanger further the quality of water and life.
We have to rethink our energy hunger and the hazards we create by supporting our addiction.
This fracking is one of the many dangerous ways to create energy that more destroys than creates. We need different strategies!
STOPPING the abusive strategies is a condition for finding better ways.

Wolfgang Devine
****
NSW 2039

Devlin-Glass, Frances – Thursday, 11 August 2022 – 12:25:50

Subject	Origin Must Not be Allowed on Yanyuwa Land
From	Frances Devlin-Glass
Sent	8/11/2022 12:25:50 PM

Mining companies, most recently Xtrata have damaged the McArthur River. Before then, pastoralism destroyed resources and ecosystems. Do no let the current environmental vandals do further environmental damage to Indigenous lands.

Frances Devlin-glass
****
VIC 3129

Dewhurst, Jenny – Sunday, 14 August 2022 – 16:50:30

Subject	NO means NO to fracking.
From	Jenny Dewhurst
Sent	8/14/2022 4:50:30 PM

Dear Premier and Parliamentarians,

My name is Jennifer Dewhurst (K/A Jenny). I live in Victoria. I am a citizen of this country, a country I will proudly defend against greed, destruction of land and racism. I plead with the Labor Government in the Northern Territory to stop the fracking of land which belongs to the indigenous population. Fracking is destructive to the country. I ask you to preserve it for what it has been used for - grazing and human habitation and care of country.

I am appalled that companies like Origin Energy think they have a right to do anything they want. They refuse to meet with the indigenous population, the owners of the land, who have been trying to negotiate with them for a long time. This land is pastoral land where people live. Fracking pumps chemicals into the underground water poisoning it and making the land uninhabitable. Predictions of food shortages would make this a no-go area for food.

Fracking is a risk to land, water and climate. Origin wants to fast track gas production without the correct licences. It is up to government to stop this destructive process in the early stages and make sure the land is left for the benefit of people not for companies to make money. Governments should be looking after the good of the country. Climate change will affect us all. They also need to think of future generations, the children of the future who will bear the brunt of climate change.

I urge the government to stop this process in its initial stages before we reach a destruction from which there is no turning back.

I eagerly await a positive decision from your government where people matter, the children of the future matter and not the purse strings of big companies. A decision where fracking is stopped.

Thanking you,

Yours faithfully,

Jennifer Dewhurst.

Jenny Dewhurst
****
VIC 3136

Dickson, Diti – Thursday, 11 August 2022 – 21:43:48

Subject	Stop fracking Aboriginal Sacred land
From	Diti Dickson
Sent	8/11/2022 9:43:48 PM

To : The Northern Territory Department of Environment, Parks and Water Security.

I am deeply concerned at the lack of integrity concerning the way that Origin is bulldozing it's way across the land of the Original inhabitants of this land, in particular the Northern Territory.

As a people who have inhabited and cared for this land and it's wildlife for millenia, I feel that they have a deep understanding and connection which is deeply spiritual and lies beyond financial gain.

The Traditional Owners deserve respect and the fact that they have been saying NO to fracking on their country for years, must be taken to heart.

I have seen first hand the devastation of the land caused by fracking.

Please reject Origin's EMP.

Diti Dickson
****
NSW 2482

Dillon, Maggie – Monday, 15 August 2022 – 16:38:01

Subject	Fracking is madness
From	Maggie Dillon
Sent	8/15/2022 4:38:01 PM

Please don’t allow any fracking as it wrecks our water supplies which we badly need for the future and now.
Have a look at the damage it has caused in the USA.
PLEASE DON’T DO IT PLEASE

maggie dillon
****
NSW 2480

Dillon-Smith, Denise – Saturday, 13 August 2022 – 22:00:54

Subject	Stop fracking now!
From	Denise Dillon-Smith
Sent	8/13/2022 10:00:54 PM

Just stop this insanity. Watch the effects in the US. Don't pretend we care about Indigenous people and then tread all over them. Money won't be the future, life will.

Denise Dillon-Smith
****
WA 6333

Dimond, Mara – Saturday, 13 August 2022 – 06:37:02

Subject	STOP ORIGIN'S FRACKING PLANS
From	Mara Dimond
Sent	8/13/2022 6:37:02 AM

The Manager
Northern Territory Dept. of Environment Parks and Water
Dear Sir/Madam,
I have just learned of Origin's plans for fracking in the Northern Territory and am quite shocked that this would still be allowed.
For me personally it doesn't matter so much as I am an octogenarian without grandchildren however my concern is for all Australians THIS IS VERY BAD IDEA.
I think history has already shown us both in Australia and overseas that fracking is a detrimental and dangerous enterprise.
I understand it is a commercial use of our resources however it is NOT an acceptable commercial use.
I have had the pleasure of living in Australia for a very long time and I would like to think that future Australian could also enjoy those benefits.
I have NO scientific background to argue the ins and outs of these actions however I believe I have enough knowledge to know that the people responsible for making these decisions today and live to regret the apparent greed involved.
From the bottom of my heart THE DON'T ALLOW THIS TO HAPPEN.
Yours sincerely
Mara Dimond
PS I know this is all emotion and no facts, I believe you have all the facts what you now need is some heart.

Mara Dimond
****
NSW 2017

Dinome, Loredana – Monday, 15 August 2022 – 08:26:45

Subject	Stop Origins fracking plans
From	Loredana Dinome
Sent	8/15/2022 8:26:45 AM

To The Northern Territory Department of Environment, Parks and Water Security,
Hello, I hope you're well.
My name is Loredana Dinome, I am a resident of Ferntree Gully, Victoria with a large extended family including grandchildren,
I am writing to you about Origins plan to drill and frack 12 new exploration wells on Amungee Mungee Station in the Northern Territory.
The risks to climate, culture and water are too great.
Clean water is a precious commodity in remote communities and the 172 Olympic pools of water required to frack the 12 drills is at very real risk of being contaminated. Let alone the 90 million litres of waste water from the above process which is to be trucked interstate for processing at considerable cost.
The co2 emissions would contradict the claim that Origin are reducing their emissions.
In 2018 the traditional owners gave evidence in an an enquiry known as the 'Pepper inquiry ' which addressed the environmental, social, cultural and economic risks resulting from fracking. It laid down 135 recommendations to mitigate against the above risks, however Origin wants to go ahead without all recommendations implemented by, bypassing proper process and regulations if the plans to drill are approved by your government.
Please consider other alternative investments for future energy needs. The abundant sun and wind with improved battery storage is very competitive and affordable.
Lastly the results of the recent federal election prove that in the main people overwhelmingly do not want development at the expense of the health of the environment and future generations.
Therefore to the Northern Territory Department of Environment, Parks and Water Security please reject Origin's Environment Management Plan.
Kind regards Loredana Dinome

Loredana Dinome
****
VIC 3156

Ditchburn, Robin – Saturday, 13 August 2022 – 19:02:34

Subject	No public money for gas and or fracking vote no
From	Robin Ditchburn
Sent	8/13/2022 7:02:34 PM

This is the worst environmental disaster that has been allowed in Australia and overseas do not let them , it destroys the land for miles around

Robin Ditchburn
****
WA 6324

Dittmann, Ralph – Sunday, 14 August 2022 – 20:45:13

Subject	Stop Origin or any other companies fracking plans.
From	Ralph Dittmann
Sent	8/14/2022 8:45:13 PM

Who,s getting the kickbacks?Stop the fracking now you greedy bastards.

Ralph Dittmann
****
TAS 7305

Dober, Carly – Sunday, 14 August 2022 – 14:22:04

Subject	Stop Origin
From	Carly Dober
Sent	8/14/2022 2:22:04 PM

There's so much to be concerned about Origin's plans, it's hard to know where to start.

The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Carly Dober
****
VIC 3042

Dober, Geoff – Friday, 12 August 2022 – 14:32:57

Subject	Stop Origins Fracking Plans
From	Geoff Dober
Sent	8/12/2022 2:32:57 PM

NT Dept of the Environment, Parks and Water Security,
Dear Minister,
If the NT Government approves these fracking plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

We don't need more gas. We don't need the effects of fracking on water supplies. Wee don't need more CO2 and Climate Change.

Please don't approve the Origin's (or anyone else's fracking.

regards, Geoff Dober

Geoff Dober
****
VIC 3141

Dobia, Brenda – Friday, 12 August 2022 – 11:44:01

Subject	Fracking a disaster for country and people
From	Brenda Dobia
Sent	8/12/2022 11:44:01 AM

I am a psychologist and educator who works in mental health and environmental education. I see many young people who experience extreme anxiety for the state of the planet and the risk to their future that climate change represents.
For First Nations youth the risks and burdens are extreme. Their very identity, their cultural heritage, their health and wellbeing are all under constant threat. Most recently the threat has escalated from mining to fracking, a practice which is extraordinarily reckless and damaging not only to country and heritage, but to the very water and air that we all need to survive. Fracking releases methane, which is far more polluting than CO2. It damages the water table irreversibly.
The NT government needs to urgently take responsibility and stand up to corporate interests, such as Origin, that continue to put their own economic interests ahead of the health, wellbeing and security of people. It is unacceptable and unconscionable to sanction Origin's fracking sites in the NT.
For the sake of all our children, and particularly for the First Nations communities who deserve to be respected and treasured rather than being repeatedly dispossessed and disadvantaged, the NT government should say not to Origin's unscrupulous fracking plans.
Please, please protect the future from this grave threat.

Brenda Dobia
****
VIC 3788

Dobie, Paul – Sunday, 14 August 2022 – 20:29:53

Subject	Please! No gas fracking wells!
From	Paul Dobie
Sent	8/14/2022 8:29:53 PM

To the Northern Territory Department of Environment, Parks and Water Security,
Please! No gas fracking wells in the NT. These wells threaten a very fragile environment as well as put precious water resources at risk. In addition, the focus of all responsible government agencies should be on reducing our carbon foot print to reduce the impact of climate change. Thi means we need to forget about exploiting fossil fuels for energy and put all of our efforts into developing alternative renewable energy sources - such as solar and wind. We need to stop the madness of developing further gas projects now.
Best regards
Paul Dobie.
10 Thorngate Drive
Belair. SA 5052

Paul Dobie
****
SA 5052

Dodd, Justine – Sunday, 14 August 2022 – 20:35:13

Subject	Fracking is OBVIOUSLY a bad thing
From	Justine Dodd
Sent	8/14/2022 8:35:13 PM

To the Northern Territory Department of Environment, Parks and Water Security

It is beyond me how fracking is even being contemplated. We know all the science - the damaging effects on water, soil, animals and our environment, and yet still it seems HUMANS are hell-bent on barging ahead, searching for profit at the detriment of all else.

I am 100% certain that YOU know the details too - and yet somehow here we are.

I beg of you to put the interests of the planet ahead of money and multinationals. It's all I can do.

Please do what you can do to stop Origin from expanding this devastating activity any further

Justine Dodd
****
NSW 2453

Dodge, Eric – Thursday, 11 August 2022 – 15:46:15

Subject	Save a bit of our culture
From	Eric Dodge
Sent	8/11/2022 3:46:15 PM

The NT government knows exactly what the issue is so know need for me to spell it out again.
If we allow our land and water to be damaged by the greed of companies like Origin we are letting down principals and values that the community values highly. It is the greed of gas companies that has caused our gas shortage so it seems completely wrong to reward another gas company with no morals to cause more damage to our land and people. Eric.

Eric Dodge
****
VIC 3809

Doeven, Lois – Monday, 15 August 2022 – 10:53:26

Subject	STOP ALL FRACKING!
From	Lois Doeven
Sent	8/15/2022 10:53:26 AM

Fracking has been proven over and over again, in countries all over the world to be a totally destructive practice. It has been banned in many sensible countries around the world. It is time we moved away from gas mining, not seek ever more catastrophic ways to get it out of the ground. Please stop for the good of all of us. There is no life without water and clean air. There IS life without a gas mine.

Lois Doeven
****
VIC 3304

Doherty, Bede – Saturday, 13 August 2022 – 15:44:45

Subject	Stop fracking by Origin
From	Bede Doherty
Sent	8/13/2022 3:44:45 PM

Fracking will kill future generations, destroy land and water and are a dagger in the heart of indigenous people.

Bede Doherty
****
VIC 3202

Doherty, Jean – Saturday, 13 August 2022 – 15:41:37

Subject	Stop more fracking wells
From	Jean Doherty
Sent	8/13/2022 3:41:37 PM

I just can not believe that this is even boing considered as the ensuing harm to the environment could be great.
Please stop it, Jean

Jean Doherty
****
ACT 2602

Donovan, Janette – Monday, 15 August 2022 – 02:08:38

Subject	Re: Origin's application for new fracking exploration and fast-tracked gas production
From	Janette Donovan
Sent	8/15/2022 2:08:38 AM

To : Northern Territory Department of Environment, Parks and Water Security

I am an Australian citizen living in Queensland, and am concerned about the ease and speed with which the planet in general but Australia in particular is being degraded by poor decisions made on behalf of the few and to the detriment of the many. I am in my sixties and have seen Australia becoming more and more like every other "1st world" country in an alarmingly accelerating fashion.

Just because something is possible it does not mean that it should be done (even for a profit).

If the NT Government approves Origin's Environment Management Plan, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same. At the very least it would undermine the integrity of our regulatory system.

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage. Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory (the Pepper Inquiry). It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

The Traditional Owners still do not want Origin's fracking plans to go ahead. (I emphasise that I also do not and have never supported fracking anywhere.) This means that the risks to water, country and cultural heritage have not been adequately addressed, or addressed at all.

I do not live in NT and therefore will not be immediately impacted but I can see the Traditional Owners' point of view. I can also see that if a cost/benefit analysis was done that included all the costs (i.e. degradation of water supply, environmental damage and climate change as well as well-being of Traditional Owners and ultimately all of us) that it would not be worthwhile - except for the short-term gain for Origin (and we all cannot be recipients of this!).

I think that Origin should be held to all the recommendations of the Pepper report. Origin cannot be allowed to shirk or sidestep any of these on the grounds that it is a large corporation. A normal citizen would not be allowed. Origin may be having some difficulty justifying its position (which itself is an indication that the proposal does not warrant approval). Surely if this is the case it is preferable to disallow the application until such time as all recommendations are implemented, and Origin can demonstrate
. that everyone will be better off and have enough clean water
. that it has a good plan for disposal of wastewater
. that it acknowledges the true carbon emission numbers and benefits (if any)(with no fudging).

Australia does not belong to Origin any more than it belongs to any of its inhabitants (people and other life). None of us can exist without an Earth that is compatible with our biology.

Please reject Origin's EMP.
Thank you for reading this.

Janette Donovan
****
QLD 4019

Doolan, Gabrielle – Friday, 12 August 2022 – 21:31:27

Subject	No more fracking. Enough is enough
From	Gabrielle Doolan
Sent	8/12/2022 9:31:27 PM

Dear Decision Makers,

We live in a drought-prone country. Almost every year the summer brings record-breaking temperatures and the winters have record low rainfall. Three years previously, it was all over the news that water was so scarce that farmers could not pay for hay for their livestock. The fish in the Murray River suffered a catastrophic die-off which fouled up the river for months, and communities that relied on its water could not use it. In Queensland, some communities were on water rations. That same year the drought was so severe that Australia had to import wheat for the first time because of crop damages. These events are becoming more and more common because of climate change, and I am afraid for what the future holds if nothing is done. They threaten our food security and they threaten our lives.

Groundwater will likely become important for our survival and so it sickens me when big corporations are allowed to waste it on making a profit at our expense. Origin should absolutely not be allowed to frack in the Northern Territory, nor should they be allowed to frack anywhere. Thanks to years of government inaction we have a dire need to move away from fossil fuels and we need to start now. Fracking will be the nail in the coffin for our already stressed environment and the frivolous wasting of water is unacceptable. Nobody wants to struggle to live in a barren hellscape 20 years from now because of corporate greed.

Allowing any fossil fuel expansion is suicide and Origin must not be allowed to proceed.

Gabrielle Doolan
****
VIC 3155

Doolan, Sandra – Sunday, 14 August 2022 – 14:31:14

Subject	Stop Origins fracking plans
From	Sandra Doolan
Sent	8/14/2022 2:31:14 PM

I ask the Northern Territory Department of Environment, Parks and Water to stop Origins fracking plans immediately. We need to protect our environment and our water supplies. Thank you.
Yours Sincerely
Sandra Doolan

Sandra Doolan
****
NSW 2145

Doran, Louise – Sunday, 14 August 2022 – 17:26:34

Subject	NO MORE FRACKING!!
From	Louise Doran
Sent	8/14/2022 5:26:34 PM

Please stop this madness.

We MUST listen to First Australians. If not the Prime Ministers plan to legislate for a VOICE to parliament is meaningless.

In 230 years we've done quite enough damage thank you-time to start repairs!!

Louise Doran
****
NSW 2483

Doriean, Melanie – Friday, 12 August 2022 – 15:00:46

Subject	Stop Origin's Fracking plans
From	Melanie Doriean
Sent	8/12/2022 3:00:46 PM

Now is not the time to be allowing fracking anywhere in Australia and particularly not in the NT on Country. It would seem the Origin are making fools of the NT government and the processes put in place to protect the environment.
Australia relies on its government to protect the environment for future generations.
I am adding my voice to the many others who are asking you to do the right thing and completely review the decision to allow fracking in Australia - especially on Aboriginal lands against the will of the traditional owners

Melanie Doriean
****
NSW 2480

Dormont, Mitchell – Saturday, 13 August 2022 – 06:20:34

Subject	NT Fracking
From	Mitchell Dormont
Sent	8/13/2022 6:20:34 AM

Hello,
Fracking is NOT the eco-friendly process it was once made out to be. It is not good for people, or other animals.
Thank you.

Mitchell Dormont
****

Dorrell, Pauline – Friday, 12 August 2022 – 11:53:40

Subject	Origin, Stop Fracking now!
From	Pauline Dorrell
Sent	8/12/2022 11:53:40 AM

NT Dept of Environment, Parks and Water Security,
Fracking in the NT (& elsewhere in Aust) must stop
Immediately. Financial profits from fossil fuels will help destroy this planet. Money V Earth.
Which do you value more?

Pauline Dorrell
****
NSW 2773

Doube, Peter – Sunday, 14 August 2022 – 08:32:15

Subject	Thank you for not fracking?
From	Peter Doube
Sent	8/14/2022 8:32:15 AM

Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

Origin's fracking infrastructure is already leaving scars all over Country.

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

Origin would need huge amounts of water to frack their twelve proposed drills — 172 Olympic swimming pools worth. If they poison this water with their fracking, remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Fracking used to be banned in the NT.
So it's simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Peter Doube
****
VIC 3206

Douglas, Greg – Sunday, 14 August 2022 – 15:11:40

Subject	Stop Origin's fracking plans
From	Greg Douglas
Sent	8/14/2022 3:11:40 PM

To Northern Territory Department of Environment, Parks and Water Security,
Dear sirs, I am an Australian citizen concerned about our beautiful country , its environment and our Indigenous culture. With a new Federal Labor government, the same political party as in the NT, and with a commitment to reducing greenhouse gas emissions and protecting the environment and indigenous culture, it seems ludicrous to me that the NT government would even consider allowing Origin to put in 12 more (or any) fracking drills, which will threaten water, cultural heritage and our climate. Origin has had a terrible record of respecting our environment and Indigenous heritage. This would also set a horrifying precedent for other fracking corporations. If the NT government has any respect for the environment or Indigenous heritage, it must refuse these plans.

Yours sincerely, Greg Douglas

Greg Douglas
****
NSW 2305

Douglass, Lynda – Friday, 12 August 2022 – 15:59:32

Subject	Stop Origins fracking plans.
From	Lynda Douglass
Sent	8/12/2022 3:59:32 PM

To the Northern Territory parks and environment

Considering the state of the climate and and the knowledge and the exorbitant amounts of money you people make.

Why not consider investing in alternate energy that in the long run you will still make plenty of dollars from us.

Take your blinkers off and wake up !!

Regards

A very concerned rate payer.

Lynda Douglass
****
NSW 2540

Doust, Frin – Friday, 12 August 2022 – 15:29:08

Subject	Stop Origin fracking, no new coal or gas projects
From	Frin Doust
Sent	8/12/2022 3:29:08 PM

To whom it may concern at Northern Territory Department of Environment, Parks and Water Security,

I am one of countless Australians united behind Traditional Owners in their fight against fracking, and therefore against corporations like Origin who wish to push for short-sighted corporate profits over people and environment.

We all need a much better and more inclusive plan for the future. A goal I could get behind would be one in line with humanist Buckminster Fuller's words: " Make the world work, for 100% of humanity, in the shortest possible time, through spontaneous cooperation, without ecological offense or the disadvantage of anyone."

Origins current plans are exploitative and set to cause significant damage as fracking always does.

Given the above I'm imploring the Department to reject Origin's EMP.

Regards,
Frin Doust

Frin Doust
****
QLD 4566

Dovey, Kenneth – Thursday, 11 August 2022 – 16:50:34

Subject	Halt Origin's Fracking Plans in the Northern Territory
From	Kenneth Dovey
Sent	8/11/2022 4:50:34 PM

This is a request to the Northern Territory Government not to approve Origin's fracking plans. Fracking has been shown to pollute water supplies, destroy the environment and contribute to climate issues. Furthermore, it is shows disrespect to Aboriginal principles of country heritage and reverence. The wrecking of the environment for profit is no longer tolerable when we face environments disaster this century.

Kenneth Dovey
****
NSW 2060

Downs, Dianne – Sunday, 14 August 2022 – 14:08:01

Subject	STOP Origon fracking in NT
From	Dianne Downs
Sent	8/14/2022 2:08:01 PM

If Government are serious about climate control AND First Nations people, they will NOT allow the plans of Origin to be passed by NT government.

Dianne Downs
****
SA 5009

Doyle, Christine – Sunday, 14 August 2022 – 16:07:35

Subject	Why are we still fracking in NT?
From	Christine Doyle
Sent	8/14/2022 4:07:35 PM

To NT dep of Environment,
As a visitor to NT on many occasions, it is shocking to me that such beautiful but fragile country is being destroyed and the rights of traditional owners are being ignored AGAIN. As well this is not the way to reduce our harmful climate emissions.

Origin's proposed 12 new fracking drills will affect the integrity of Country, will rely on huge amounts of precious water and will add to our climate disasters. This kind of proposal seems to me to be asking for government sanctioned suicide, except it is our children and grandchildren who will suffer it.

As I understand it, Origin has not met the recommendations of the Pepper enquiry, does not have the correct license for gas production and approval of its EMP would become a precedent for similar irresponsible actions by other companies.

I care about what happens to every part of our country. I want to see governments stepping up to change our exploitative culture. Do not allow Origin this win, rather make your refusal a beacon to other governments about our future.

christine doyle
****
NSW 2138

Doyle, Jorgen – Friday, 12 August 2022 – 15:17:44

Subject	Submission regarding Origin's proposed works program for EP98&76
From	Jorgen Asmussen Doyle
Sent	8/12/2022 3:17:44 PM

To whom it may concern,

My name is Jorgen Doyle. I'm a community member from Mparntwe/ Alice Springs concerned about the impacts new oil and gas projects will have on the world's efforts to transform human activities and limit global heating to ~ 1.5C.

Please find attached my submission regarding Origin's proposed works program for EP98&76.

Sincere regards,

Jorgen

Attached Documents

DEPWS Petroleum Operations Unit
Northern Territory Government

My name is Jorgen Doyle.

I am writing to disclose my concerns regarding Origin Energy's Environmental Management Plan on EPs 98 & 76. I believe this EMP fails to meet the criteria for approval set out in the Petroleum (Environment) Regulations 2016 and that it should be rejected by the Environment Minister or, failing that, referred to the EPA for assessment.

Origin is proposing to keep the 12 wells it plans to frack open for 730 days. This is unprecedented for exploratory activity, far exceeding the median timespan for exploration wells in the Beetaloo to date (135 days). The much increased lifespan of these wells relative to previous exploration wells in the Beetaloo contributes to a much larger release of greenhouse gases (535,651 tonnes of direct, scope 1 CO_2 equivalent emissions), and is incompatible with the principle of keeping climate impacts as low as reasonably possible (ALARP) - a condition of EMP approval.

Origin is proposing to sell the gas extracted from these 12 wells to the McArthur River Mine, in explicit contravention of the conditions of an exploration licence, as well as the Northern Territory government's oft-stated commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper Inquiry recommendations. In addition to this, Origin Energy does not have production agreements with appropriate Traditional Owners. To proceed with production and sale of gas from these 12 wells prior to negotiating production agreements would be to contradict the Australian Petroleum Production and Exploration Association (APPEA) CEO Andrew McConville, who stated at a recent Senate Inquiry (22/3/22) that no fracking will occur in the Northern Territory's Beetaloo Basin without consent from affected traditional owners or pastoralists.

Origin intends to frack all year-round, with the first two wells relating to this proposal earmarked for fracking during the 2022-2023 wet season. This significantly elevates the risk of wastewater overflow and contamination, and Origin's intention to push on despite these heightened risks is yet more evidence of the company's cavalier attitude towards its environmental responsibilities.

I am extremely concerned about the effects of all fracking activity on water resources in the region, especially given the incomplete status of the Scientific Regional Environmental Baseline Assessment (SREBA), and absence of updated water allocation plans, both of which were key recommendations of the Pepper Inquiry. Origin plans to extract 430 million litres of groundwater from the Gum Ridge Formation of the Cambrian Limestone Aquifer over three years to facilitate its work program. This EMP does not include any analysis of the impacts of this groundwater extraction on other water users or on groundwater-dependent ecosystems. Origin's EMP fails to consider past, current, and future water uses from oil and gas activities in its cumulative impact analysis (i.e. Sweetpea Petroleum has been granted approval to extract 299 ML per year from the same formation through to 2024), and whether these cumulative impacts remain within the threshold for sustainable use of the groundwater resource.

For these reasons and more, I urge the Environment Minister to refuse to consider this EMP and refer this EMP to the Environment Protection Agency under the Environment Protection act for full and thorough assessment.

Thank you for considering my submission.

Sincerely,

Jorgen Doyle

Doyle, Jorgen – Monday, 15 August 2022 – 15:03:07

Subject	Submission for Amungee - 1
From	Jorgen Asmussen Doyle
Sent	8/15/2022 3:03:07 PM

Please find the Central Australian Frack Free Alliance's submission on Origin's Amungee NW Delineation Program EMP (ORI11-1) attached.

Kind regards,

Jorgen Doyle

Attached Documents

DEPWS Petroleum Operations Unit
Northern Territory Government

15 August 2022

SUBMISSION - Origin Amungee NW Delineation Program EMP (ORI11-1)

The Central Australian Frack Free Alliance (CAFFA) welcomes the opportunity to comment on the Environment Management Plan submitted by Origin for its proposed works program on the Amungee NW site ('the EMP').

About CAFFA:

CAFFA is a grassroots community group located in Mparntwe/ Alice Springs and organising to protect the NT's water, health, communities and country from the harms of unconventional gas extraction. We have been active over the last seven years in raising awareness within the Alice Springs and Central Australian community about the risks posed by this poorly regulated and inherently dangerous industry. We are opposed to the development of a new onshore shale gas industry in the NT because of the serious damage to our climate, groundwater and ecosystems this industry will inevitably cause. Pursuing new gas fields is not compatible with a liveable future for the Territory.

Our work, which is largely conducted by volunteers, has seen CAFFA engaging with the community through market stalls, letterboxing, community surveying and other social events. This extensive engagement has furnished us with a solid understanding of the mood of the Alice Springs community on this issue. As a result of our activity, as well as that of similar grassroots and environmental groups across the NT, fracking was a major election issue in the 2020 Territory election and the 2022 Federal election, a clear indication of the widespread distrust of this industry in the NT.

CAFFA calls for Origin's EMP to be rejected, or, failing this, referred to the Northern Territory EPA on the grounds that the EMP:

- Explicitly contravenes the conditions of an exploration licence by proposing to produce and sell gas extracted under the works program;
- Fails to keep the climate impacts of the works program as low as reasonably possible (ALARP) by exceeding the 'average' duration of exploratory testing by a factor of five (5x);
- Fails to adequately and accurately describe the climate impacts of the project;
- Misleadingly downplays the emissions profile of the presented testing scenarios;

- Is predicated upon inadequate baseline biodiversity data collection and fails to properly assess impacts to biodiversity at the species population and ecosystem-wide level;
- Does not assess the impacts of proposed groundwater extraction and use;
- Fails to fully assess the impacts of liquid and solid waste produced by the activities; and
- Neglects to assess the project's cumulative impacts.

Our Concerns:

We note with concern Origin's attempt to secure approval for two years' recovery and sale of gas under the guise of reducing the climate impact of the project. Keeping 12 wells running for 2 years would result in over 2.1Mt of greenhouse gas pollution, which would make a significant contribution to the NT emissions inventory and to global climate change, even if Origin can sidestep responsibility by shifting the label from 'scope 1' to 'scope 3'. This is production by stealth in a blatant attempt to start profiting from gas extraction before key Pepper Inquiry recommendations are implemented, and should not be permitted.

CAFFA shares the concerns highlighted in Lock the Gate's submission; namely, that Origin's analysis of the climate impacts of the works program are inadequate and inappropriate in the following three main ways:

- **Emissions calculations:** The presented emissions profile of the activities does not include an estimate of scope 3 emissions under the "beneficial use" scenario despite justifying this scenario on climate grounds and omits readily foreseeable sources of emissions.
- **Climate impact of expected emissions:** Origin does not describe the impacts of its expected emissions on global warming, and the consequences of global warming for the Northern Territory, both fundamental environmental impacts of the project.
- **Unsubstantiated claims about climate neutrality of natural gas**: The EMP includes largely baseless claims about the possibility for 'low-carbon' natural gas and alleged climate benefits of onshore gas.

1.1 Emissions estimates are incomplete and misleading

1.1.1 Misleading description of "beneficial use" scenario

Origin presents a "beneficial use" scenario in the EMP, with well testing lasting up to 730 days. The gas would be used on-site for power-generation, or piped into the nearby McArthur River Pipeline, presumably for use at the mine. Alternatively, testing would be conducted for 90 or 135 days (although Origin describes a 135-day test as "worst-case" it also states that it expects this to be the 'average' duration[1]).

Origin justifies this very extended testing period on the basis that it would lead to a 'significant reduction in scope 1 emissions' (from 535,651t CO2-e down to 111,201t).[2] What Origin fails to mention is that under this scenario, *the actual emissions footprint of the project would be substantially higher.* Drawing on the estimated emissions resulting from use of 3% of produced gas to power gas compression (60,939t), producing and using gas for 2 years would create **2,031,300t** of avoidable greenhouse gas pollution. Adding the expected emissions from all the other relevant activities, the actual emissions impact of the beneficial use scenario would be **2,142,501 tonnes of CO2-e**. This is

[1] Origin, *Amungee NW Delineation Program Environment Management Plan*, 3 ('EMP').
[2] EMP, 72.

equivalent to **12% of the NT's total emissions** for 2020, a huge cost for *just one company's exploration activity under one EMP*.

This proposal only benefits Origin, which stands to profit from produced gas (either in savings from substituting for purchased power or gas sales) prior to the implementation of all Pepper Inquiry recommendations and without obtaining a production licence. In addition to this, Origin Energy does not have production agreements with appropriate Traditional Owners. To proceed with production and sale of gas prior to negotiating production agreements would be to contradict the Australian Petroleum Production and Exploration Association (APPEA) CEO Andrew McConville, who stated at a recent Senate Inquiry (22/3/22) that no fracking will occur in the Northern Territory's Beetaloo Basin without consent from affected traditional owners or pastoralists[3]. Arguing that this scenario is beneficial to anyone or anything other than Origin is completely fallacious.

1.1.2 Obvious sources of greenhouse gas pollution are omitted without explanation

The EMP's quantification of expected emissions omits the greenhouse gas pollution arising from most of the proposed waste treatment activities.

Origin's waste treatment methodology includes:

- Using mechanical evaporators, brine crystallisers and thermal combustion treatment systems to enhance wastewater evaporation;
- Pumping wastewater between open-topped and close-topped tanks to avoid overflow in the wet season;
- Trucking wastewater between exploration sites and well-pads; and
- Using 20 B-Triple road-trains to truck residual solid and semi-solid wastes to a facility in Jackson, Queensland.

All of these activities will result in greenhouse gas emissions, especially trucking waste 2,532km to the WestRex facility in Queensland, but none are included in the EMP emissions analysis.

1.1.3 Cumulative emissions assessment is inadequate

Origin's assessment of the 'GHG cumulative emissions' is blatantly incomplete and presents a misleading understanding of the cumulative climate impact of gas activity in the Beetaloo.

The PER require each EMP to include '*details of all environmental impacts and environmental risks… and an assessment of those impacts and risks*', with the assessment required to include '*the cumulative effects of those impacts and risks when considered with each other and in conjunction with any other activities or events that occurred or may occur in or near the permit area for the regulated activity*'.[4]

Even on a narrow reading of this provision, limited only to gas activity in the Beetaloo, Origin fails to meet this requirement.

The 'cumulative' GHG emissions assessment table excludes quantified emissions from:

- Origin's own activities on the Amungee site, which date back to before the fracking moratorium;

- Origin's own approved and planned activities on other tenements before FY23 - for example, 130,825t over 2022-24 on neighbouring EP76;

[3] https://www.abc.net.au/news/2022-03-23/nt-beetaloo-basin-senate-inquiry-gas-industry-ceo/100929398
[4] Petroleum (Environment) Regulations 2016, Sch 1, cl 3.

- Other companies' approved gas exploration activities since the moratorium was lifted - totalling to over 785,000t CO2-e just since 2019; and

- Activities proposed in two EMPs currently under assessment - totalling an additional 753,441t CO2-e[5].

This ignores the intent of the concept of 'cumulative impacts' and clearly falls short of the standard required under the PER.

The International Energy Agency has stated categorically that no new gas fields can be developed if the world is to sustainably achieve the target of limiting global heating to 1.5°C,[6] while the United Nations Environment Programme has concluded that governments should be reducing fossil fuel production by 6% every year between now and 2030 to avoid exceeding the 1.5°C limit.[7]According to analysis by a panel of independent climate experts, Australia's remaining carbon budget (as at 2021) was only 3,521Mt CO2-e to have a 67% chance of not exceeding 1.5°C.[8] Origin's proposed exploration activities, ultimately aimed at developing the Beetaloo as a new gas field, are wholly at odds with achieving vital reduction targets and preventing dangerous global warming.

The impacts of climate change above 1.5°C are more severe than if warming is kept beneath this threshold. These phenomena will translate into real and damaging consequences for the health of humans and ecosystems in the NT. The NT government's Climate Change Response document notes that continued greenhouse gas emissions through fossil-fuel intensive industries will drive the following environmental and social impacts in the NT:

- Increased exposure to extreme weather events
- Increase in the number of extreme heat days; the intensity of tropical cyclones; more extreme fire behaviour; flooding; and the intensity and frequency of droughts
- Changes to freshwater availability
- Increased risk to human health and life
- Direct impacts to primary industries (e.g. risks to livestock; fisheries)
- Loss of biodiversity in the Northern Territory
- Natural ecosystems placed at high risk (e.g. extensive mangrove dieback and coral reef loss; loss of freshwater ecosystems; coastal erosion)
- Increase in sea level rise, ocean acidification, and extreme sea-level events[9]

2. Origin's approach to collecting data about the baseline biodiversity values present at the Amungee NW project site is insufficient.

Origin's assessment of the risks to threatened species found in exploration areas is founded on inadequate baseline monitoring and lacks evidence to support its conclusions. The EMP's biodiversity descriptions and impact assessments are founded upon searches of various flora and fauna

[5] Sweetpea's EMP for EP136 (448,331t) and Imperial A's EMP for EPs 167 & 168 (305,114t).
[6] International Energy Agency, *Net Zero by 2050: A Roadmap for the Global Energy Sector* (May 2021) <https://www.iea.org/reports/net-zero-by-2050>.
[7] United Nations Environment Programme, *Production Gap Report 2020* (December 2020), 36 <https://productiongap.org/wp-content/uploads/2020/12/PGR2020_FullRprt_web.pdf>.
[8] Climate Targets Panel, *Australia's Paris Agreement Pathways: Updating the Climate Change Authority's 2014 Emissions Reduction Targets* (January 2021), 9.
[9] Northern Territory Climate Change Response, page 4.

databases, such as the NT Government Fauna Atlas.[10] These databases do not provide accurate and comprehensive information about the distribution of threatened species in the NT. The absence of a thorough understanding of the biodiversity assets of regions including the Beetaloo was a key concern of the Pepper Inquiry, which concluded that 'the likelihood of onshore shale gas development occurring in currently undocumented areas of high conservation value … is "high", given the lack of comprehensive and systematic information on the biodiversity assets of prospective regions…'.[11]

No surveying or trapping appears to have been conducted to ascertain the presence of the Brushtail Possum and the Pale Field-rat, despite suitable habitat being found throughout the project area and recent records of the Possum in a relatively close location.

No surveying was conducted for the Plains Death Adder, or indeed any impact analysis included in the EMP.

Surveying for the Crested Shrike-tit appears to have consisted of someone looking around with binoculars for just 10 minutes after 5 minutes of call-back.

No call-back was conducted at all for the Gouldian Finch.

Observation for the Grey Falcon was limited to scouting one tower.

Despite recent published research finding stygofauna eDNA at the two locations surveyed within the project area, Origin draws the bizarre conclusion that this research indicates that stygofauna are not likely to be present.[12]

2.2 No impact assessments for multiple threatened species

The EMP does not assess the potential impacts of the project on the identified threatened species, instead merely making (frequently unfounded) assertions about the unimportance of the project area for the species.

Origin states that there is suitable Gouldian Finch habitat within the project area, as well as perennial grasses known to provide forage resources during the wet season.[13] The EMP concludes, however, that it is 'unlikely' that finches would breed in close vicinity to the exploration well sites and that there is extensive foraging habitat elsewhere. No explanation is provided for either of these convenient assertions.

Similarly, the EMP claims that the Grey Falcon, although likely to be present in the area, is unlikely to be impacted by its activities 'because suitable nesting trees will not be cleared', failing to engage with other potential impacts, such as the documented threat flaring poses to the Grey Falcon and other avian species[14], reduction in prey populations due to clearing and industrial activities in the area.

The sections on the Brush-tailed Possum and Pale Field-rat imply that impact will be minimal given the size of the project footprint compared to the apparent overall distribution of potential habitat for

[10] See EMP, sections 5.2.3 and 5.2.5.
[11] Pepper Inquiry Final Report, 186.
[12] EMP, 147.
[13] EMP, 135.
[14] US Fish and Wildlife Service (2021) *Incidental Take Beneficial Practices: Gas Flares*, https://www.fws.gov/story/incidental-take-beneficial-practices-gas-flares.

these species. There is no analysis of how the works program might impact members of these species that do occur within or near the site - for example, clearing of undergrowth removing protection for the Pale Field-rat, overnight lighting and works affecting both species' ability to forage effectively at night-time, etc[15].

The same approach is taken for the Painted Honeyeater: there is appropriate habitat for this species within the project area, but the EMP does not assess the impacts of the project on the Honeyeater, instead simply stating that the area proposed for clearance is relatively small. This again ignores the intent of the concept of cumulative impacts by restricting adverse impacts to the activities of the current EMP and overlooking habitat loss associated with expanded and intensified future development.

2.3 No consideration of habitat fragmentation and 'edge effects'

Habitat fragmentation from onshore gas is one of the major risks to biodiversity in the Beetaloo Sub-basin.[16] Origin states that the project area contains relatively intact habitat that is not already fragmented,[17] but then fails to take the next step of assessing how the proposed works program might itself fragment or otherwise impair habitat.

The need for a project-wide assessment of the potential for habitat fragmentation is heightened by the intensity of the proposed development, especially compared to previous exploration programs. The works program involves the construction of four large well pads. Clearing several large patches of land, as well as access tracks and seismic lines, within a concentrated area has obvious potential to disrupt wildlife corridors and the integrity of habitat, including canopy cover, within the project area. The EMP fails to acknowledge these impacts of the works program.

Notably, the Code of Practice for Onshore Petroleum requires an assessment of project impacts on 'important habitat' for threatened species, not just direct impacts to individual members of those species.[18] Origin instead focuses on whether relevant fauna are likely to be present on-site, concluding that due to a "scarcity of records and lack of core habitat, it is unlikely that significant populations of these species occur within the Amungee delineation area"[19]. By failing to assess how the project will impact overall on areas of important habitat (i.e. the identified foraging habitat for the Gouldian Finch) Origin does not meet the requirements of the Code.

3. Origin proposes to extract 430 million litres of groundwater from the Gum Ridge Formation of the Cambrian Limestone Aquifer over three years to facilitate its works program.

The EMP does not include any analysis of the impacts of this groundwater extraction on other water users or on groundwater-dependent ecosystems. Instead, Origin refers to the statement of reason for

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[15] Daniel Lewanzik & Christian C. Voigt (2014) 'Artificial light puts ecosystem services of frugivorous bats at risk', 51 *Journal of Applied Ecology* 388–394, https://onlinelibrary.wiley.com/doi/abs/10.1111/1365-2664.12206.

[16] See Pepper Inquiry Final Report, 197: "Vegetation clearing can also result in the fragmentation of faunal habitat, which leads to a proliferation of habitat edges, with edge effects on the abiotic environment (including microclimate, light and wind) known to occur up to 500 m or more from cleared areas. In the US, it has been estimated that the loss of core habitat through edge effects associated with onshore gas development can be at least twice that lost directly through vegetation clearing. A 4.5% loss in forest cover in the central Appalachians due to shale gas development has been assessed as translating to a 12% loss in core forest once edge effects are considered, and this had a detectable impact on local bird communities. Habitat loss and fragmentation can be a particularly important issue when development areas cover a substantial portion of the distributions of legislatively listed threatened species."

[17] EMP, Appendix L, Row 33, 42.

[18] Code of Practice: Onshore petroleum activities in the Northern Territory, s A.3.5.

[19] EMP, Appendix J, p. 59.

its water extraction licence, which permits the extraction of 175ML/yr from the GRF up to the end of 2024.

It is inappropriate for Origin to rely on the WEL analysis without further assessment, because this analysis failed to consider the cumulative impacts of past, current, and future water uses from oil and gas activities. For example, the statement of reason failed to consider a permit for Santos Ltd for 193.5 ML per annum from the GRF that was issued before Origin's WEL was awarded when analysing cumulative water extraction.[20]

The WEL also failed to consider foreseeable future gas projects that are already requesting significant levels of groundwater extraction. Sweetpea Petroleum Pty Ltd, for example, has been granted approval to extract 299 ML per year from the same formation through to 2024. The WEL also failed to consider the anticipated volume of oil and gas wells in the Beetaloo Sub-basin mentioned above, or whether future oil and gas development in the southern part of Beetaloo will represent unsustainable use of the groundwater resource.[21] The PER require EMPs to include details of all environmental impacts and risks and assess those impacts and risks, including their cumulative effects. It is not clear that this requirement allows EMPs to refer to an assessment conducted as part of a separate regulatory process for a distinct purpose.

In any case, given that the WEL statement of reason failed to take into account directly relevant and cumulative water allocations, in relying purely on this decision, the EMP fails to meet the obligation to assess the cumulative impacts of water extraction in or near the project area under the PER.

3.1 Lack of a Water Allocation Plan

It is also important to note that the Pepper Inquiry concluded that it had insufficient information about groundwater in the NT to enable a full assessment of risks relating to unsustainable groundwater use, contamination of groundwater by hydraulic fracturing fluids and wastewater, groundwater contamination from surface spills, and the effect of these groundwater quality and quantity issues on surface and terrestrial groundwater-dependent ecosystems.[22] For this reason, it was recommended that a SREBA, along with updated water allocation plans for relevant regions, be undertaken.

The SREBA has not yet been completed, and new WAPs have not been developed. The program of groundwater research catalysed by the Pepper Inquiry is ongoing. Fracking uses and contaminates huge volumes of water, which is then too toxic to be properly recycled and reused, or fed back into aquifers. It is a key recommendation of the Pepper Inquiry that a Water Allocation Plan (WAP) or WAPS be developed for the aquifers within and adjacent to the Beetaloo. There is no Water Allocation Plan (WAP) in place for the Beetaloo region, meaning that there is no way of knowing whether the NT Government can safely and sustainably allocate Origin and other fracking companies the enormous amounts of water they require without impacting other water users, including townships, Indigenous communities, pastoralists and other businesses.The water licences to extract groundwater are considered and granted in isolation and are not informed by an overarching understanding of the cumulative impact of water consumption on water resources. Until a SREBA is completed for the Beetaloo aquifers, an understanding of the cumulative impact on water resources of water consumption by fracking companies does not exist.

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[20] NT Department of Environment and Natural Resources, Water Extraction Licence GRF 10280, granted to Santos Ltd. (Santos WEL), p. 1 (8 May 2019) http://www.ntlis.nt.gov.au/walaps-portal/noiNodSod/licence/GRF10280.
[21] Pepper Inquiry Final Report, 136.
[22] Pepper Inquiry Final Report, 166.

This extremely problematic shortcoming fails to anticipate the real challenges and probable values of future generations, notably: severe climate change with its transformative global ecological and geopolitical consequences; restorative justice for Aboriginal water custodians; and the Territory's environmental and cultural landscapes becoming increasingly rare and globally valued.

3.2 Inadequate assessment of risks to groundwater quality posed by spill

Evidence from international experience indicates that 'on-site spills of chemicals and wastewater are very likely to occur on onshore shale gas well pads', generally due to container and equipment failures, human error, blowouts, pipeline leaks and the inappropriate dumping or disposal of wastewater.[23]

The EMP mentions several actions and activities that are likely to increase the risk of a chemical or wastewater spill. These include trucking wastewater and solid wastes between well pads and exploration sites; trucking waste interstate, and pumping wastewater from open-topped to close-topped tanks in preparation for high rainfall events.

Every additional instance of handling and transfer increases the risk of a spill, and as a result, the risk of soil and water contamination. Origin does not acknowledge that any of these proposals change the risk profile of the works program, or include any analysis to demonstrate that the spill risks of the activities have been reduced to a level that is as low as reasonably practicable.

Origin's intention to continue its works program throughout the wet season significantly elevates the risk of wastewater overflow and contamination. The EMP does not take into account the influence of a changing climate in making rainfall events more extreme and less predictable, and does not acknowledge the heightened risks associated with activities such as the proposal to pump water from open-topped to close-topped tanks eight hours prior to a forecast intense rainfall event.

Conclusion:

CAFFA calls for Origin's EMP to be rejected, or, failing this, referred to the Northern Territory EPA for a full assessment. The works program clearly has the potential to have a significant environmental impact. The incomplete and flawed assessment of the project's cumulative impacts contained within the EMP does not inspire confidence that environmental impacts resulting from this project will be kept as low as reasonably possible.

Origin's attempt to secure approval for two years' recovery and sale of gas under the guise of reducing the climate impact of the project represents 'production by stealth' and is a blatant attempt to start profiting from gas extraction before all Pepper Inquiry recommendations are implemented. Origin presents emissions estimates for the works program that are incomplete and misleading, failing to mention that under its proposed 'beneficial use' scenario, the actual emissions footprint of the project will be substantially higher than under the 'average' 90-135 day duration of well testing. The damage the project will do to the Northern Territory's emission reduction targets is much greater under the two year 'beneficial use' scenario than the 'average' 90-135 day duration, equating to **12% of the NT's total emissions** for 2020. Climate risk under the scenario is clearly not reduced to a level that is as low as reasonably possible.

[23] Pepper Inquiry Final Report, 153.

The International Energy Agency has stated categorically that no new gas fields can be developed if the world is to sustainably limit warming to 1.5°C,[24] while the United Nations Environment Programme has concluded that governments should be reducing fossil fuel production by 6% every year between now and 2030 to avoid exceeding the 1.5°C limit. Greenhouse gas emissions must be urgently and absolutely reduced, not merely offset. There is no viable way to counteract the emissions created by opening up the Beetaloo. Pursuing new gas fields is not compatible with a liveable future for the Territory.

It has been a consistent feature of EMPs submitted by gas companies operating in the Beetaloo Basin that the intent of the concept of cumulative impacts is misunderstood, downplayed and ignored. This EMP is no exception in this regard. The EMP fails to properly assess cumulative impacts to biodiversity at the species population and ecosystem-wide level. Where Origin concedes that the area affected by its proposed works program does contain habitat for threatened species, it downplays the impacts of its activities by making unsubstantiated claims that there is 'extensive' foraging habitat across the region. Origin states that the project area contains relatively intact habitat that is not already fragmented,[25] but then fails to take the next step of assessing how the proposed works program might itself fragment or otherwise impair habitat.

The EMP also pays insufficient regard to the cumulative impacts on groundwater quality and quantity, surface and terrestrial groundwater-dependent ecosystems, and its effects on other users, that the proposed groundwater extraction of the works program contributes to. Until the SREBA has been completed, and new WAPs have been developed, it is highly questionable whether the true potential impact of Origin's project can be understood at all. For this and all of the above-stated reasons, CAFFA strongly believes that a works program of this scale should not proceed given the serious damage to our climate, groundwater and ecosystems this industry will inevitably cause, and should certainly not proceed prior to the completion of the SREBA, the development of new WAPs for the region, and the implementation of all Pepper Inquiry recommendations in full.

We thank you for considering our submission.

Sincerely,

Central Australian Frack Free Alliance

[24] International Energy Agency, Net Zero by 2050: A Roadmap for the Global Energy Sector (May 2021) <https://www.iea.org/reports/net-zero-by-2050>.
[25] EMP, Appendix L, Row 33, 42.

Draca, Mila – Sunday, 14 August 2022 – 18:50:21

Subject	Stop with your plan ??
From	Mila Draca
Sent	8/14/2022 6:50:21 PM

Please stop with your plan in order to protect all of us and our beautiful continent and country Australia. I am deeply concerned about our future and I remaind you that God can see everthing.Please do not be someone who will ruins future of new generator and which name will be written by dark letters in Australia. Kind regards.Mila .

Mila Draca
****
VIC 3023

Druce, Barbara – Thursday, 11 August 2022 – 14:25:36

Subject	To the Dept of Environment, Parks and Water Security of the NT
From	Barbara Druce
Sent	8/11/2022 2:25:36 PM

PLEASE dont allow Origins plans for fracking in the NT. Haven't the Traditioal Owners suffered enough since white settlement!!! And the environment will suffer too, and enough damage is done there too!!

Barbara Druce
****
VIC 3193

Drummond, Pat – Friday, 12 August 2022 – 12:17:16

Subject	Stop The Friggin' Frackin!
From	Pat Drummond
Sent	8/12/2022 12:17:16 PM

We must, in this age of Climate Change, and renewed respect for our First Nation's People's culture and history, prevent any further damage caused by mining and fracking. These projects must be clearly prevented or the politicians in charge at the time will, as in our recent Federal Election, be held accountable. We must act quickly to stop Origin Energy's commencement of their Fracking Projects.

Pat Drummond
****
NSW 2780

Drysdale, John – Saturday, 13 August 2022 – 14:15:19

Subject	Submission re ORIGIN plan to extract gas in NT
From	John Drysdale
Sent	8/13/2022 2:15:19 PM

Executive Officer,
Department of Environment, NT
Dear Sir/Madam,

I am alarmed to read that Origin is seeking approval to extract gas and sell it on the basis of an 'exploratory licence.'
Clearly Origin, a foreign owned company which pays very littel tax in Australia is seeking to capitalise on the shoratge of gas in the Northern hemisphere because od the restrcited supply of gas from Russia.
I implpore your department not to allow Origin to commence any additional gas extraction.
There is an abundance of gas being extracted in Australia already and this would not be in the interest of Australian consumers and certainly not in the interewt of the traditional owners of the land who I know have consistently opposed gas extraction because of the devastatinf effects it has oncountry.
Apart from this, such extraction would seriously imperil our chances of reducing our CO2 emissions by 43% by 2030 and have a catastrophic impact on global warming.
I urge your Department and the NT government to reject the Origin request and that of other miners who have similar plans to cash in on the temporary shortfall in gas supply to northern hemisphre countries.
Your faithfully,
John Drysdale
6 Jarvis Street Clunes
NSW 2480

John Drysdale
****
NSW 2480

Dudley-Bestow, Elizabeth – Sunday, 14 August 2022 – 19:55:43

Subject	Fracking in the Northern Territory
From	Elizabeth Dudley-Bestow
Sent	8/14/2022 7:55:43 PM

To the Northern Territory Department of Environment, Parks and Water Security,
I write as a former resident of the Northern Territory, as a person who supports the rights of Aboriginal People to have a say about the use of their traditional lands, a person concerned with the long term health of the great artesian basin and the environment and agriculture that depends on it, and as a person concerned about climate change.
Please do not permit any more fracking in the Northern Territory. I appreciate that it brings money and jobs, but fracking and the use of gas is definitely a short term gain, long term pain scenario.
I am willing, and do, pay extra for my energy to be from renewable sources. Gas is not essential. Agriculture, environment and Aboriginal culture are. Please reject the Origin plans to undertake fracking.

Regards
Elizabeth Dudley-Bestow
(Master of Landscape Planning, Associate of the Australian Institute of Landscape Architects)

Elizabeth Dudley-Bestow
****
NSW 2780

Duffy, Bernadette – Friday, 12 August 2022 – 13:19:50

Subject	Origin needs to find other work
From	Bernadette Duffy
Sent	8/12/2022 1:19:50 PM

No new fracking enterprises should be approved if we are to stop climate change and the catastrophic events linked to it. It may prove catastrophic for Origin, but so be it if the rest of life gets to survive. Money will not sustain us. No amount of profit will replace livable climate, clean air and drinkable water. Origin needs to find work in renewables.

Bernadette Duffy
****
QLD 4223

Duffy, Bernadette – Friday, 12 August 2022 – 14:33:56

Subject	Stop Origins Fracking Plans.
From	Bernadette Duffy
Sent	8/12/2022 2:33:56 PM

To the Northern Territory Department of Environment and Water Security. My name is Bernadette Duffy. I am a mother of five and a grandmother of five and I care dearly about the sustainability of this planet and equally for the purity of our most precious resource - CLEAN WATER. I grew up on the land and so I know how precious pure water is. You must stop Origin opening twelve new fracking drills in the Northern Territory. The evidence is there for all to see- No amount of laws or promised safe guards can prevent our water from being polluted. I beg of you. It is in your hands to prevent this.

Bernadette Duffy
****
VIC 3163

Dugeny, Jessica – Friday, 12 August 2022 – 15:21:53

Subject	Come on! Are we stupid??
From	Jessica Dugeny
Sent	8/12/2022 3:21:53 PM

Hi,
It is very disappointing to see that planet Earth needs to be defended still, despite the massive show off of her power to destroy!
How much more damage our race need to make before the people with big money open their eyes and ears!!
Isn't it obvious already that we are abusing our ground?
Isn't it right in front of us already the cost of our nonsense capitalism?
How much more pain and suffering we, us human beings and any alive species of here, in this galaxy, will need to manage?
What else do you need to prove how stupid projects like these are??
Just think about it, and resonate!

Jessica Dugeny
****
WA 6290

Duijn, Arie – Friday, 12 August 2022 – 12:07:02

Subject	Stop Origin's fracking plans.
From	Arie Van Duijn
Sent	8/12/2022 12:07:02 PM

To the Northern Territory Parks and Water Security.

The fracking Company Origin is making ready to start fracking in the Northern Territory.

As the government is aware , much of this territory is under the "control" of the First Nations People. They care for their environment.

Water is a scarce commodity. Fracking will spoil the water reservations.

Moreover, more gas exploration is going against the Federal Government decision to curb global warming.

I and my fellow citizens urge you to stop Fracking as a danger to our water resources and furthering global warming.

Arie van Duijn.

Arie Van Duijn
****
NSW 2062

Dukats, Katrina – Friday, 12 August 2022 – 14:15:53

Subject	katrinadukats@bigpond.com
From	Katrina Dukats
Sent	8/12/2022 2:15:53 PM

NO more fracking!!

Katrina Dukats
****
NSW 2570

Duley, John – Thursday, 11 August 2022 – 23:18:55

Subject	Everyone is watching the fracking in the NT
From	John Duley
Sent	8/11/2022 11:18:55 PM

Well well, it seems to the rest of Australia that Origin Energy has more power than the NT government. Origin is going ahead with drilling without permission... Or is it? Has the NT signed a secret agreement with Origin, and kept it from public scrutiny?
Either way, it looks like the NT government has lost control of mining in its own jurisdiction.
What's that going to look like, to the public? To the international and interstate tourists?
It looks like the government isn't interested in keeping the natural beauty of the territory.
Too bad. Is someone on government getting a kickback from fracking? Maybe not but that's how it looks to the public. Destroy the environment to make a few dollars. Let the miners run roughshod over the government.
Meanwhile, the tourist dollars will go elsewhere.
Dr John Duley, Stanthorpe, Qld.

john duley
****
QLD 4211

Dumpleton, Dale – Friday, 12 August 2022 – 21:34:17

Subject	Origin's planned fracking drills | h2O
From	Dale Dumpleton
Sent	8/12/2022 9:34:17 PM

11 August 2022

To: Northern Territory Department of Environment, Parks and Water Security

Subject: Fracking in the Northern Territory

I am writing regarding Origin's Planned Fracking drills at Amungee Mungee pastoral station.

An inquiry in 2018 set certain standards for any fracking and Origin's plans fail the first test i.e. land that is environmentally, socially and culturally appropriate for use for shale gas development (Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, April 2018).

Any drilling will negatively impact the environment especially in terms of gas house emissions and also underground water sources. Access to adequate and safe water sources are a huge problem in the NT, as per stories I have read (eg uranium in water at Laramba; Katherine residents waiting more than 10 years for decent water etc). Allowing water sources to be compromised and contaminated condemns people to further hardships which impact their health. Water is precious anywhere and especially in the NT.

I am calling on the Government to refuse this application and protect the environment.

Thank you.

(Mrs) Dale Dumpleton
334 Wendouree Pde, Lake Wendouree 3350
Land of the Wadawurrung People

Dale Dumpleton
****
VIC 3350

Dunduk, Roman – Saturday, 13 August 2022 – 14:16:32

Subject	Stop Origin destroying land and water in NT
From	Roman Dunduk
Sent	8/13/2022 2:16:32 PM

Origin must stop with fracking immediately until ALL regulatory processes are followed and approval received.
Protect our water and land from damage caused by reckless fracking.

Roman Dunduk
****
SA 5008

Dunlop, Philip – Saturday, 13 August 2022 – 15:22:29

Subject	Reject Origin's Fracking Plan
From	Philip Dunlop
Sent	8/13/2022 3:22:29 PM

Northern Territory Department of Environment, Parks and Water Security.
The Origin plan will destroy the very objects you are supposed to protect for Territorians and Australians.
It will also make saving the planet from climate change even harder.
Traditional Owners are against damaging their country by the proposed fracking. It will damage water, the environment, the climate and native animals.
Reject these plans.
Philip Dunlop

Philip Dunlop
****
VIC 3108

Dunne, Helen – Saturday, 13 August 2022 – 12:22:55

Subject	Stop Origin's Fracking plans
From	Helen Dunne
Sent	8/13/2022 12:22:55 PM

My name is Helen Dunne, I live in Toowoomba, Queensland and have great respect for this country and it's first nation people, and as the oldest continual civilisation in the world it feels a privilege to be living in Australia.

It concerns me that destruction of any kind to the earth, cultural heritage, water and climate can be allowed to happen in light of what we now know.

Fracking cannot be the only way to access energy. We have known for some time the better natural alternatives. Also concerning is the profit made from the destruction and disregard for the land and its people.

I ask that you reject Origins EMP and support the traditional owners of the land so that we can live healthily, safely, and proud to be part of this amazing country.

Helen Dunne
****
QLD 4350

Dunning, Kathleen – Friday, 12 August 2022 – 16:34:33

Subject	Reject the Origin fracking projects
From	Kathleen Dunning
Sent	8/12/2022 4:34:33 PM

We need look no further than what's happening right now in the northern hemisphere in the United States, the U.K , France, northern Europe, Siberia etc to see unequivically what the future is likely to hold for our country -drought, fire, floods.
We can see clearly that across the world ordinary communities are at risk in ways hitherto unknown. As of this moment in Europe there are hundreds of towns and rivers with NO Water. Unprecedented. And we must remember that our island continent is a very dry country at the best of times. We don't even need to look at the unfolding, and largely unanticipated European repeated heat wave catastrophe. All we need to do is
to remember our own sustained, devastating, killing drought of not so many years ago. Anything that compromises or threatens to compromise water systems and security needs to be ditched right now. We cannot allow Origins' proposals to jeopardise quite literally our future survival. We cannot risk our
underground water systems to short term profit and gain for some. We must protect our water sources for all and not disturb them further. We must avoid further destabilising country in every sense. Our weather has become increasingly unpredictable and actually dangerous as recent and repeated flooding events attest. After all flood is the flip side of drought. Furthermore, many of Australia's would be "stellar" corporations have show us repeately they don't give a damn about future consequence or costs to communities or effects. Furthermore they can't be trusted. We have been quite literally shafted by such "industry." We must guard our water, our land and climate as national treasures, our collective precious jewels. Fracking is too risky and not to the benefit of most of the citizen body. It's time to get down to the serious business of water, land and climate protection while we still have an opportunity to influence further living. Given the disasters that Australia and other countries have experienced in recent years, including this one it would be madness to ignore what the hell is going on in the world and instead decide 'oh, let's frack, no worries.' NO!
With respect and great concern I ask that the Origin frackcing projects be declined, right now. They are not in Australia's interests.

Sincerely,

Kathleen Dunning

Kathleen Dunning
****
TAS 7250

Dunphy, Daphne – Sunday, 14 August 2022 – 16:07:49

Subject	daphnedunphy@optusnet.com.au
From	Daphne Dunphy
Sent	8/14/2022 4:07:49 PM

With fracking the huge quantities of water required in an area where water is a limited resource and the known contamination of water which has happened in the past on sites makes this not acceptable in that area.

Daphne Dunphy
****
QLD 4031

Dupuche, Angela – Friday, 12 August 2022 – 12:29:38

Subject	Origin fracking plans
From	Angela Dupuche
Sent	8/12/2022 12:29:38 PM

As a shareholder and user of Origin energy I appeal to the NT government and Origin itself to end plans for fracking in NT. This plan will have negative consequences for the environment and First Nation people of the NT. Angela Dupuche

Angela Dupuche
****
VIC 3123

Durovic, Mirjana – Sunday, 14 August 2022 – 14:22:32

Subject	Stop fracking in NT
From	Mirjana Durovic
Sent	8/14/2022 2:22:32 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
This has to be stopped.
We all need food and clean water more than money and gas.
Thank you.

Mirjana Durovic
****
VIC 3196

Dusting, John – Sunday, 14 August 2022 – 21:10:25

Subject	Stop franking in NT
From	John Dusting
Sent	8/14/2022 9:10:25 PM

Nother Territory Department of Environment.
As a retired engineer in the gas and petroleum industry within Australiia, I wish to oppose further fracking.
While Origin is probably one of the more responsible of franking for gas, it has not been able to guarantee no damage to the seal on the artesian basin.
Australian long term interests lie in maintaining this single water source, rather than short term gas export dollars, most of which are held by others outside this country.
It all stems from three gas companies contracting to all export the same gas reserves, and now are desperate to get new reserves to ballance the deficit. All at limited return to Australia.
John Dusting FIEAust FIICA

John Dusting
****
VIC 3931

Dwyer, Janice – Sunday, 14 August 2022 – 07:54:30

Subject	NO to Origin's Fracking Plans
From	Janice Dwyer
Sent	8/14/2022 7:54:30 AM

Northern Territory Department of Environment, Parks and Water Security,
Surely it is obvious that these fracking wells can only harm our environment, especially water courses both above and under ground. This in turn damages the creatures, including humans, that live in or depend on this water. Please do NOT allow these fracking plans to go ahead.

Janice Dwyer
****
VIC 3939

Dwyer, Rose – Sunday, 14 August 2022 – 08:32:38

Subject	redstar115@hotmail.com
From	Rose Dwyer
Sent	8/14/2022 8:32:38 AM

Dear NT Govt, parks and recreation

Please do not frack your precious land, you will be viewed as an out of touch government with little to no awareness of the global crisis going on. Short term financial gains are no longer a reason to continue mining. Please don't do it

Rose Dwyer
****
VIC 3071

Dymock, Bruce – Monday, 15 August 2022 – 11:43:25

Subject	Stop Origin's Fracking Plans
From	Bruce Dymock
Sent	8/15/2022 11:43:25 AM

The Manager,
Northern Territory Department of Environment, Parks and Water Security,
Darwin NT 0800

Dear Sir/Madam,

I am writing to express my deep concern about proposals by Origin Energy to open twelve new fracking drills in The Territory.

These will threaten underground water resources, cultural heritage and the climate of all the world, but particularly of our section of the planet.

It has been shown over many scientific and actual on-site studies that fracking is very dangerous to underground water resources and it cannot be safely undertaken without placing those resources at risk. I cannot see how the potential danger over the very long term to those invaluable resources can be placed at risk for a relatively short-term advantage. If they are adversely affected at any stage, this will place the occupation of those lands at peril as, of course, access to clean and reliable sources of water are essential for human habitation.

In addition, we have danger to the cultural heritage of those lands on which Indigenous people have resided for tens of thousands of years - how could we even consider placing this at risk?

And thirdly, there is the real impact that accessing the gas that is held underground will make to our climate. It is well known that gases such as the highly dangerous methane are certain to escape during the fracking process and then in the extraction process. These have a seriously adverse impact on the climate and I understand that there is little that can be done to limit or restrict such leaks.

The NT Government must accept that it is not in the long-term interests of the Government and the people of the Northern Territory for the fracking of the proposed areas in the NT to be allowed to be undertaken by Origin (or any other company). It must therefore deny the request from Origin in the best interests of your residents and the entire Australian population.

Yours sincerely,

Bruce Dymock
Indooroopilly Qld 4068

Bruce Dymock
****
QLD 4068

Dyuwula-Morris, Tjannarra – Sunday, 14 August 2022 – 15:00:46

Subject	Stop Origins Fracking Plans
From	Tjannarra Dyuwula-Morris
Sent	8/14/2022 3:00:46 PM

To: The Northern Territory Government
Department of Environment and Fracking Plans

My name is Tjannarra. Anaiwan Woman.

I am pleading with you Not to approve any Plans for Origins fracking in the Northern Territory.. further destroying our country, our water, and community. Our elders are committed to protecting our environment against this very important issue but we feel our calls to protect our environment are not being heard or considered important. Origin is only concerned about ripping our country apart to further their own selfish monetary gains.

Pls help First Nations People look after what is critically important... our environment. So that all Australians can enjoy it.

Tjannarra Dyuwula-Morris.

Tjannarra Dyuwula-Morris
****
NSW 2800

E, J – Sunday, 14 August 2022 – 16:45:13

Subject	Fracking is not good on so many levels
From	J E
Sent	8/14/2022 4:45:13 PM

Having recently completed a degree in Sustainability and Community Development I stand strong on my views regarding Fracking and even more so when it is not in alignment with First Nations wishes for health of people and country as well as with a global responsibility.
Much research has been done into the effects on land and water of fracking and show very few benefits.
Given the long term prognosis for the state of the planet I object to permission being given to any of the 12 proposed fracking drill sites in the Northern Territory.
For all of our combined futures say No and put energy and investment into renewable clean energy.
Thank you for making a wise and strong decision to reject these proposals.

j e
****
QLD 4562

Eads, Jacki – Saturday, 13 August 2022 – 13:37:17

Subject	Stop Fracking
From	Jacki Eads
Sent	8/13/2022 1:37:17 PM

To the Northern Territory Department of Environment, Parks and Water Security,

My name is Jacki, I'm a current Origin customer and utterly horrified by what is occurring with the twelve new fracking drills being planned for the NT. This sets a precedent for other corporations to destroy country, water and our already struggling climate. It is shortsighted and heavily opposed. Please think beyond the money and reject Origin's EMP.

Jacki Eads
****
SA 5153

Eagle, Kajol – Sunday, 14 August 2022 – 14:52:47

Subject	STOP ORIGIN'S FRACKING PLANS!!!!
From	Kajol Eagle
Sent	8/14/2022 2:52:47 PM

To the Northern Territory's government Department of Parks, Environment and Water Security,
My name is Kajol Eagle and I am a resident in South West Victoria.
I also happen to be a customer of Origin Energy.

When I heard about the plan of Origin's to drill 12 " exploratory" fracking wells in NT, I was absolutely aghast!
It does not help that Origin is going ahead with this without the permission of the First Nation elders and without any solution for environmental damage as well as recourse if the water supply get poisoned!

As Australia is on the precipice of the war with climate change, the actions we take now will dictate the future of Australia, if not the world.

Australia needs to think smarter but also acknowledge that sacrifices will need to be made if we are to survive and thrive in the future.

Finally, this land is not ours but those that belong to the First People of Australia.
If they do not agree with this, why should we ignore them and go ahead?

The First People of Australia have survived and thrived in Australia for thousands of years.
They know better than us how to: combat climate change, thrive in a difficult environment, have a symbiotic relationship with the Earth and make peace with nature!

In less than 250 years, white people have completely changed Australia and for the worst.
We have tried to control nature and bend it to our will, as well as incur massive amounts of damage without any recourse.

What is happening now is our doing and we cannot wreak any more chaos, now or ever.
Otherwise humanity will not survive.

So I plead to the NT government's Department of Parks, Environment and Water Security, to reject Origin's EMP, as to ensure that Origin cannot go ahead with the future plans of 12 "exploratory" fracking sites or any other fracking projects!

Thank you

Kajol Eagle
****
VIC 3260

Ealand, Kirsten – Friday, 12 August 2022 – 14:40:42

Subject	Please stop fracking plans by Origin
From	Kirsten Ealand
Sent	8/12/2022 2:40:42 PM

Attn: Northern Territory Department of Environment, Parks and Water Security

I am writing this submission on behalf of my family and community to express our dismay at hearing Origins plans for fracking in the Northern Territory. It's too big, too vague, too fast and too presumptuous.
Fracking is bad for the land, with it's mega use of water and production of wastewater, and the Traditional Owners don't want it. Frackers come in, destroy the land, use up the water and when they have the gas, they move on, leaving an eyesore and a devastated environment behind. Why would anyone want that for the Northern Territory? We certainly wouldn't.
The NT's previous moratorium on fracking was lifted on the condition that all 135 recommendations from the NT Pepper Inquiry would be implemented. Recommendations designed to mitigate the environmental, social, cultural and economic risks associated with fracking. These have not been met by Origin.
Allowing this exploration license for 12 wells would then set a precedence to other fracking corporations to come in and do the same.
Factor in a world trying to get to grips with climate change and an Australia that has some serious work to do to get our emissions under control, and we feel it just makes Origin's proposal even more reckless.
Please back Traditional Owners, protect the water, country and cultural heritage of the Northern Territory and help Australia to start seriously addressing our greatest threat of climate change by refusing Origin's unsustainable Environmental Management Plan.
Thank you for the opportunity to make this submission on behalf of myself, my family and community.
Sincerely,
Kirsten Ealand

Kirsten Ealand
****
NSW 2484

Earle, Vic – Friday, 12 August 2022 – 21:46:50

Subject	Stop Origin fracking
From	Vic Earle
Sent	8/12/2022 9:46:50 PM

You know this is wrong on so many levels and yet you are still contemplating it.

Renewables are the answer and, again, you are fully aware.

What will it take for you to see sense?

Please, NO FRACKING.

Vic Earle
****
WA 6285

Eastwood, Karen – Sunday, 14 August 2022 – 15:32:23

Subject	Stop Origin's Fracking Plans
From	Karen Eastwood
Sent	8/14/2022 3:32:23 PM

Northern Territory Department of Environment, Parks and Water Security,

My name is Karen Eastwood and I live on Awabakal and Worrimi country in Muloobinba/Newcastle. I'm writing to express my very deep concern about Origin's plans to open twelve new fracking drills in the Northern Territory. It may only be 'exploratory' but it's not welcome. My objections to Origin's fracking projects is threefold: it will endanger the water supplies in the area, it is disrespectful to the First Nations people who have already stated they do not want this to go ahead and it is morally wrong in the face of the current climate crisis.

I was brought up to believe that 'Water is Life' and in a country like ours, water is precious. Maintaining its pristine quality is crucial for the safety and longevity of the people and ecosystems dependent upon them.
Not only does hydraulic fracking require the use of millions of litres of this precious water, the very process produces millions of waste water which Origin currently plan to truck interstate - further adding to their massive carbon footprint. And what a MASSIVE waste of our precious water.

Furthermore, the Pepper Inquiry raised 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. Origin has failed to implement all of these. What are you doing to address this?

With the raised concerns about a worldwide gas shortage it would be easy to think that such fracking projects could help solve the crisis but I believe this is short sighted. The NT should be supporting and investing in companies that are seeking to solve the energy crisis with a more eco friendly approach and with greater respect for Country and the custodians of the land.

We have so little time to turn around the climate crisis we currently face. It is our moral duty to move away from old world energy practices, leave fossil fuels in the ground and look for safer, healthier and more economically viable ways to produce energy. Show leadership and LOOK FORWARD WITH VISION!

I get so cranky that we have to write these letters to remind our leaders to act in the best interests of our country and our people instead of pandering to the interests of the fossil fuel industry that's only focus is making a profit.

I implore you to listen to our First Nations elders, think of Country and our precious water and keep in mind the long term impacts of fracking on future generations.

Yours sincerely
Karen Eastwood

Karen Eastwood
****
NSW 2297

Edgar, Madeleine – Thursday, 11 August 2022 – 15:26:05

Subject	Stop Origins fracking plans
From	Madeleine Edgar
Sent	8/11/2022 3:26:05 PM

To the Northern Territory Parks & Environmental department! Please do not allow frack8ng in the Northern Territory! Enough!

Madeleine Edgar
****
QLD 4216

Edmunds, Patricia – Sunday, 14 August 2022 – 23:12:26

Subject	Stop Origin's Fracking Plans
From	Patricia Edmunds Edmunds
Sent	8/14/2022 11:12:26 PM

Northern Territory Dept of Environment, Parks and Water Security.

Dear Minister
Throughout the Territory's remote communities water security is a problem. Bore water frequently has higher than recommended levels of uranium and heavy metals resulting in major health issues in those communities. Some communities are in danger of running out of water altogether and require bottled water trucked in. Fracking constitutes a major risk to artesian integrity with further contamination of water supplies. In addition its purpose is to mine gas, a fossil fuel that contributes significantly to global warming. Science tells us that it's imperative to move to renewables and that there's no time to lose or we all will lose. Traditional owners need to be respected. Stop fracking now.

Patricia Edmunds Edmunds
****
QLD 4075

Edwards, Anne – Friday, 12 August 2022 – 12:26:58

Subject	Fracking in N.T.
From	Anne Edwards
Sent	8/12/2022 12:26:58 PM

It is time for. Fracking to stop. Fracking has now been superseded by new technologies driven by the wind and sun, it is now old hat and needs to be left in the past.

All our resources should now be directed to the new technologies which do not destroy our water tables, cultural heritage and our climate.

Yours faithfully,
Anne Edwards

Anne Edwards
****
NSW 2429

Edwards, Emily – Sunday, 14 August 2022 – 17:13:38

Subject	Reject Origin's fracking plans
From	Emily Edwards
Sent	8/14/2022 5:13:38 PM

Northern Territory Department of Environment, Parks and Water Security,

I write to register my grave concern regarding Origin Energy plans to open 12 new fracking drills and to urge you to reject these plans.

My name is Emily Edwards. I am a mother, a worker, an Australian and global citizen. The decisions we take in each part of Australia affect our environment today and the futures of all our children.

Origin's proposal will have direct and disastrous impacts on climate change, biodiversity, water resources, and cultural heritage.

Concerningly, this appears to be "exploration creep" – production masquerading as exploration to enable the industry to expand without the proper regulations being in place - so it's very disturbing to see it playing out now. These wells could well be in breach of section 29 of the Petroleum Act which prohibits the sale of exploratory gas. This apparent disdain for the law portends badly for future conduct in upholding environmental laws.

The International Energy Agency said in its 'Net Zero by 2050' report that no new coal projects should be approved after 2021 for the world to meet emissions reduction targets. Therefore, any new mine or gas field approved is adding to catastrophic climate impacts that exacerbate bushfires, droughts, heatwaves, floods, storms and coral bleaching that impact people. These prospective approvals also contribute to many Matters of National Environmental Significance such as threatened species and world heritage areas.

I appreciate state and federal governments are fighting from a very tight corner in responding to the political landscape, global and domestic energy needs, employment and our economy. Within the decade, however, all of these concerns will be meaningless without immediate, dramatic and committed action by the government to both address climate change and preserve our precious natural environment.

Sincerely,

Emily Edwards
115 Henrietta Street,
Waverley NSW, 2024

Emily Edwards
****
NSW 2024

Edwards, Frank – Saturday, 13 August 2022 – 16:14:11

Subject	Please disallow Origin's fracking plans
From	Frank Edwards
Sent	8/13/2022 4:14:11 PM

For the sake of the Traditional Owners please don't allow Origin to frack for gas. We cannot continue to mine and sell CO2 producing fossil fuels. We can't afford to use NT water in such a profligate way. We can't allow the risks of ground water contamination.

Please find a way to do the ethical and humanitarian thing.

Don't allow fracking for gas in the NT.

Thank you in anticipation,
Frank Edwards

Frank Edwards
****
VIC 3237

Edwards, Jenny – Friday, 12 August 2022 – 19:03:16

Subject	Please stop fracking now
From	Jenny Edwards
Sent	8/12/2022 7:03:16 PM

Department of Environment, Parks and Water Security

Dear Minister

I am from Sydney but like many Australians I have been privileged to make a number of trips to the beautiful Northern Territory and to meet many Traditional owners and learn about their connections to country.

Origin's plans for fracking simply over ride the rights of Indigenous Owners of their land. They will also destroy the unique natural beauty that so many Australians and international tourists go to see (and bringing with them tourism dollars and jobs). Damage from fracking to land and underground water has been shown in so many places around the world.
The new Federal Labor Government is finally taking action on climate change. Why aren't state Labor Governments following suit? It has been shown that renewable energy is cheaper than that based on fossil fuels. Why then are you still allowing Origin Energy to pursue outdated fossil fuels which will cause so much distress and damage to local landholders and to the country and to the environment.
Jenny Edwards

Jenny Edwards
****
NSW 2041

Edwards, Lisa – Friday, 12 August 2022 – 20:00:48

Subject	Stop Origin's Fracking
From	Lisa Edwards
Sent	8/12/2022 8:00:48 PM

To NT Dept. Of Environment Parks and Water Security

I run a not for profit organisation that promotes Australia's biodiversity. I do this because during my 20 years as an environmental Scientist managing threatened species I saw how many species we were losing due to climate change. Fracking, which is a climate change accelerator, is a totally unacceptable activity for us to be allowing any corporation to be undertaking in our country when we are losing so many species so rapidly.

Your respectfully

Lisa Edwards
331 Walcott st
Coolbinia
WA 6050

Lisa Edwards
****
WA 6050

Edwards, Mary – Friday, 12 August 2022 – 19:42:09

Subject	Please stop Origin fracking NT urgently
From	Mary Edwards
Sent	8/12/2022 7:42:09 PM

To NT DELWP,
My name is Mary Edwards, I live in Victoria and spend a lot of time in the bush - daywalking and backpacking. I have travelled to NT to walk the Larapinta trail this year, did the Jatbula pack several years ago and have walked in Kakadu, Litchfield, at Uluru, Kata Tjuta, Kings Canyon, Karajini etc. I have a also explored the coast in WA and the east coast of Australia in Vic, NSW and QLD. Loving the landscape, I want it protected - the deserts as well as the marine environments.
I am also very concerned about climate change and its affects on the environment.
I am against Fracking for the following reasons.
1.Fracking is known to affect water supplies, polluting them. - Reference the USA experience.
2. Use of water for fracking also reduces scarce water that the NT Traditional owners on country need to survive.
3. Extraction of gas by fracking releases large amounts of methane - which is a much worse climate damaging gas than Co2.
4. The burning of gas by end users releases CO2 which is a climate damaging gas.
5. All countries need to take steps to reduce extraction and use of fossil fuels if we are not going to have an out of control runaway environmental disaster. The world is currently tracking for a 2 degree average increase which will cause massive changes to the climate and our planet. As recently as this week, there have been warnings of icefield loss on the previously stable East Antarctic iceshelf. see these articles
https://www.nature.com/articles/s41*********6-0
https://www.theguardian.com/environment/2022/aug/10/east-antarctic-ice-sheet-in-our-hands-climate-action
For all the above reasons, fracking should be rejected by NT and Origin's fracking proposals should be rejected.
I hope that you make this decision for the good of Australia and the rest of the world.
Yours Faithfully
Mary Edwards

Mary Edwards
****
VIC 3145

Edwards, Ronald – Thursday, 11 August 2022 – 15:04:00

Subject	pachdom@optusnet.com.au
From	Ronald Edwards
Sent	8/11/2022 3:04:00 PM

To the Northern Territory Department of Environment, Parks and Water Security.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Origin plans to open twelve new fracking drills in the Northern Territory- wells which threaten water, cultural heritage, and our climate.

Ronald Edwards
****
SA 5401

Edwards, Sue – Friday, 12 August 2022 – 14:40:51

Subject	sue.edwards@sunrise.org.au
From	Sue Edwards
Sent	8/12/2022 2:40:51 PM

Why oh Why are the Pepper inquiry recommendations not being adhered to? I realise that the NT is sparsely populated compared to other states but there are people like myself who choose to live here and should be able to do so peacefully without fear of our water being compromised.
Our Aboriginal people are also very worried about the future for them and their families.
Surely there are Some politicians who are sympathetic to our views and not just interested in money making. We can't live on money without water!
The mining companies are already drilling at Tamumburinni Station. Origin only hold an exploration permit but are proposing to pipe and sell gas to Macarthur River Mine. Are you going to allow this to happen?
The recommendations of the Pepper inquiry are not in place this is really concerning to most of the residents in and around Mataranka where I have lived for 22 years.
Please put a stop to this water mining by very rich mining companies who contribute very little to our communities

sue edwards
****
VIC 3121

Efford, Georgia – Thursday, 11 August 2022 – 15:36:27

Subject	Fracking is too destructive.
From	Georgia Efford
Sent	8/11/2022 3:36:27 PM

to the Northern Territory Dept of Environment, Parks and Water Supply.

AS a thoughtful Australian committed to a climate change readiness excluding coal, oil and gas, I want to support decisions by your Department which ban fracking. We all know the fragility of Australia's water supplies especially fragile for many indigenous communities as recorded in a report on the news yesterday. Fracking guzzles water at a level which can't be replenished. Secondly, the First nations people have NOT given approval for origin's projects. This is a basic and monumental relegation of responsibility. How could their voice not be heard and applied?
Please do not give any go-ahead to any fracking in the NT.

Georgia Efford OAM

Georgia Efford
****
WA 6076

Eggart, Stephen – Sunday, 14 August 2022 – 17:18:29

Subject	Stop origin’s fracking
From	Stephen Eggart
Sent	8/14/2022 5:18:29 PM

Hello, my name is Steve Eggart and I travel to the Northern Territory regularly and I agast that a company is alplying to frack this great state. This state is one of the last great wilderness areas that shouldn’t risk the stain and possible water pollution that this involves,. Also it’s time to listen to the original custodians of this great land.
This land must be left in better condition than we found it for the many generations to come
Yours respectfully Steve Eggart

Stephen Eggart
****
WA 6104

Eggers, BGF – Thursday, 11 August 2022 – 15:05:30

Subject	andrea.eggers@bgf-institut.de
From	BGF Institut Eggers
Sent	8/11/2022 3:05:30 PM

Where is the planet's future if fracking is the future? Why can't human beings not think and learn? We need a change, NOW

BGF Institut Eggers
****

Eggert, Alex – Monday, 15 August 2022 – 19:30:03

Subject	Application to drill and frack 12 new exploration and appraisal gas wells on the Amungee Mungee and Shenandoah East pastoral stations 50 km east of Daly Waters.
From	Alex Eggert
Sent	8/15/2022 7:30:03 PM

Dear Hon Environment Minister Lauren Moss

My name is Alex Eggert and I live in Katherine NT

I am writing to you to share my concerns with Origin's Amungee NW Delineation EMP.

My connection to this issue is:

I have some serious concerns with the contents of this EMP, namely: eg

Production by stealth:

Origin is proposing to keep the 12 wells in this EMP open for 730 days and sell gas to the Macarthur River Mine. Their license only permits them to 'explore' for gas, not 'produce' aka sell it. Allowing them to keep their wells open for over 5 times what is usually required to test how much gas is there and to sell it contravenes the government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper inquiry recommendations before the industry is fully allowed to go ahead.

Biodiversity:

I believe Origin's proposal does not adequately consider the risk to threatened species. The proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat

Climate:

Origin has not addressed the Scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (keeping 12 wells open for more than 5 times the usual appraisal period) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible (ALARP).

Water:

Origin has not addressed the Scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (keeping 12 wells open for more than 5 times the usual appraisal period) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible (ALARP).

I call on you as the minister to please:

Stop origin moving to production by stealth by refusing the EMP

Refer the entire EMP to the EPA for a full EIS

I hope you take my concerns into account and will follow the progress of this application closely.

Kind regards,

Alex Eggert

Katherine NT

********** <mailto:**********>

Mob *********

Egmond, Jan – Saturday, 13 August 2022 – 15:09:13

Subject	Origin gave up its human soul
From	Jan W Van Egmond
Sent	8/13/2022 3:09:13 PM

All Fossil fuels are weapons to kill and stop our children's existences. By greed with the murderous outlook by the few. that are like an army of monetary driven selfish evil persona that are having given up their humanity

with a murderous intent

Jan W Van Egmond
****
VIC 3675

Eiberg, Jenny – Friday, 12 August 2022 – 14:23:53

Subject	Stop Origin from fracking
From	Jenny Eiberg
Sent	8/12/2022 2:23:53 PM

Hello i think its disgraceful that NT government is allowing fracking to go ahead you only need to look at what happened in America rivers creeks are full of gas and not drinkable any more you should be ashamed to allow this to happen tell me how much did they give to your election kitty/

jenny eiberg
****
WA 6262

Eichler, Steven – Thursday, 11 August 2022 – 14:40:39

Subject	Request decline fracking approval
From	Steven Eichler
Sent	8/11/2022 2:40:39 PM

Environment, Parks and Water Security,

We are in a climate crisis with climate change already evident around us. I request you to please decline Origin's request to start fracking new wells in the NT.

Steven Eichler
****
QLD 4551

Eisenweger0400567476, Lon – Saturday, 13 August 2022 – 20:20:52

Subject	Stop Origin fracking plans
From	Lon Eisenweger0400567476
Sent	8/13/2022 8:20:52 PM

I would have thought that "no" means no...!!! Giving a voice to First Nations people means we should listen and comply, apparently not when it comes mining and resources extraction. We have had an alarming state of the enviroment report which should indicate that fracking is off the agenda. Apparently not....!!!! To add insult to injury we are faced with not even having access to the product. We destroy our own enviroment to make foreign nationals wealthy at our own expense.
Further more the promises of restitution and restoration of trammeled areas is ignored or only given lip service.
Fracking on Australian soil should simply be banned.

Lon Eisenweger*********
****
VIC 3460

Eivers, Murray – Sunday, 14 August 2022 – 15:22:21

Subject	Stop Origin's plans to continue fracking
From	Murray Eivers
Sent	8/14/2022 3:22:21 PM

To the Dept of Environment, Parks and Water security.

This email is to protest the concept of the Dept giving any consideration or license for Origin continuing their efforts to explore and expand their gas interests in the NT. I find it extraordinary that in the age of renewables and the science and economics that flow from these, that govts in this renewable rich country continue to even consider the support of industries such as this.

There is a "right side of history" to be on when we look back in the future on the decisions made around profit vs planet and I hope that the govts and depts in NT choose the right side and reject these advances.

There are other ways to prosper and profit. Origin should be encouraged to pursue these as a company with the measn ans skills to do so. Please show the right type of leadership and consider the options.

Thankyou

Murray Eivers
****
QLD 4226

El_Gallo_Azul – Thursday, 11 August 2022 – 18:57:03

Subject	My opposition to Amungee NW Delineation EMP
From	El_Gallo_Azul
Sent	8/11/2022 6:57:03 PM

Hon Minister Lauren Moss
GPO Box 3146
Darwin NT 0801

Dear Hon Minister Lauren Moss,

I am writing to express my opposition to the Origin Energy Amungee NW Delineation program. For a couple of centuries, after arriving uninvited, followed by bullying our way (through outnumbering and outgunning the people of this continent) into remaining here for generations, we have removed parts of somebody else's home continent to sell for export and killed the plants and animals of this continent, without their request nor their consent.

Please stop acting against the known consensus on how we should respond to applications to conduct any fossil-fuel extraction; and for now, at the every least, reject this EMP and refer it to the Environment Protection Authority for a full Environmental Impact Assessment to ensure the risks are adequately evaluated.

I understand that you take a 51% election victory as a "mandate" to do whatever your Party decides is in the interest of the Party with a view to winning the next election in 3 years. One day of democracy every 3 years is not enough, and our existing governance arrangement unfortunately makes it necessary for the citizenry to pause useful production and spend time and effort on writing emails, writing letters, making placards, marching up and down the street, coming up with cool and catchy chants, and other such inefficient use of time and energy to express the public interest in the face of apparent State opposition to the public interest.

I am particularly concerned by the following:

Production by stealth
Origin is proposing to keep the 12 wells in this EMP open for 730 days and sell gas (under an exploration licence) to Macarthur River Mine.

This amounts to production by stealth and contravenes the government’s commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper Inquiry recommendations prior to the production phase of fracked gas.

Bending the rules to allow Origin to sell gas without a production licence would set a terrible precedent and undermine the integrity of our regulatory system.

Climate impacts

We are very well aware that we can't commence any new carbon-extraction operations like gas and coal extraction, yet those appointed under our British law to act as authorities "on our behalf" are kidding yourselves that we can get away with "just a little bit more" if it might create some local jobs and revenue. 535,651 tonnes of greenhouse gas emissions would be released under the proposed exploration licence putting Origin well and truly over the large

emitters threshold. Origin plan to keep these wells open more than 5 times the usual period for appraisal, thus increasing the emissions substantially.

Biodiversity
We have already achieved the world's highest rate of species extinction, and now Origin's proposal does not adequately consider the risk to threatened species. The proposal includes clearing 60km of seismic lines and an additional 111 hectares in an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater and Yellow-spotted Monitor.

Request to Minister
Given the scale of potential direct and cumulative impacts on water, biodiversity (including threatened species) and the climate, I call on you as Minister for the Environment to ensure this project is referred to the EPA for a full Environmental Impact Assessment by the EPA, and to refuse Origin's application for an Environmental Management Plan.

Yours sincerely,
Greg Flint
Northern Territory, 0812, Australia

Greg Flint

PO Box 642
Parap
NT 0804
Australia

Real democracy! Of the people. By the people. For the people.

Let's democratise "democracy"

email: **********

SIP (not email): **********
Landline +61 (0)********* 1725
Mobile +61 (0)********* 021
Australian Central Standard Time (ACST) = UTC/GMT+9.5

Note: Phone calls received with no identification will not work. To enable identification, use prefix *31# (mobile phones), 1832 (analogue landline), *65 (NBN landline) .

Enviado con Proton Mail correo seguro.

Eldridge, David – Monday, 15 August 2022 – 14:07:51

Subject	Stop Origin's Fracking Plans
From	David Eldridge
Sent	8/15/2022 2:07:51 PM

No new gas and oil fields

David Eldridge
****
VIC 3350

Elfes, Shirley – Friday, 12 August 2022 – 21:28:37

Subject	Stop Origins fracking drills
From	Shirley Elfes
Sent	8/12/2022 9:28:37 PM

Attn Nt Dept of Environment Parks and Water Security
Please do not approve Origins fracking plans.
Our Indigenous people need the water and their country needs to be left alone.
We need to consider climate change so we need to look at renewable energy sources not these mines.
I have an account with Origin but now I will be leaving them as I do not agree with these mines.
Shirley Elfes

Shirley Elfes
****
NSW 2032

Elias, Eliana – Thursday, 11 August 2022 – 14:25:35

Subject	Stop Origin's Fracking Plans
From	Eliana Elias
Sent	8/11/2022 2:25:35 PM

To Whom it may concern,

Please consider the future of this planet and give lands back to Indigenous peoples. It's their land and you have no right. Humans are stewards of the land. It's out duty to look after it. Fracking is destroying the lands. Just don't.

Eliana Elias
****
WA 6230

Elizabeth, Malika – Sunday, 14 August 2022 – 14:37:35

Subject	Leave the Artesian Basin alone
From	Malika Elizabeth
Sent	8/14/2022 2:37:35 PM

Water in Australia is far too precious to take a chance with. People all over NSW, SA, QLD and NT rely on this water to live and work. Countless communities need to know that their water supply is safe.

There are many other ways to create energy. Gas is becoming an outdated source. Fracking is way too risky to give the go ahead to Origin, especially without an independent and neutral authority making sure it is not detrimental to the environment and communities.

This is a dire situation if business is allowed to ruin countless communities and businesses.

malika elizabeth
****
NSW 2515

Elizabeth, Taverner – Thursday, 11 August 2022 – 14:31:57

Subject	No more fracking!
From	Taverner Elizabeth
Sent	8/11/2022 2:31:57 PM

To: department of environment, parks and water security
Please do not allow any more fracking. It destroys the water table and makes impossible traditional indigenous living on the land taken from original inhabitants. Water is too precious to risk contamination from fracking. Please treasure our land by keeping it in a natural healthy condition. There is no room for more damage.

Taverner Elizabeth
****
ACT 2612

Ellen, Mary – Thursday, 11 August 2022 – 21:11:21

Subject	stop origin's fracking plans
From	Mary Ellen
Sent	8/11/2022 9:11:21 PM

I think you need to respect the land and the traditional owners and decide against more dangerous fracking, even if you think it's not dangerous,

mary ellen
****
WA 6160

Elley, Eric – Sunday, 14 August 2022 – 15:07:19

Subject	Stop Origin's original sin ??
From	Eric Elley
Sent	8/14/2022 3:07:19 PM

Department of Northern Teritory Parks, Environment, & Water Security

It will be an irreversible transgression for future generations, as well as against the people presently trying to maintain custodianship of this land, to allow, & therefore encourage the diabolical practice of fracking for, simply, global warming contributors.
After the money has been extracted, the legacy can never be removed, & more than considerable uncertainty must remain as to what those legacies might be.

We don't get to fracture subterannean rock strata by injecting a toxic array of chemicals adjacent to migratory & seeping water tables, with zero consequences downstream

96% of the water on planet Earth is salt.
Of the remainder, 3.6% is locked up in Antarctica & other ice. For the time being.

This leaves very little for 8 billion humans to play with.
Don't play silly games with a resource that is about to become "the new gold"
And renowned for being critically scarce in the driest continent on Earth. (Apart from Antarctica)

Sincerely, & regards towards your wholesome responsibilities in this matter

Eric Elley
±64 ********* 2510

Eric Elley
****
NSW 2260

Elliott, Paula – Sunday, 14 August 2022 – 09:51:12

Subject	Stop Origins Fracking Plans
From	Paula Elliott
Sent	8/14/2022 9:51:12 AM

My name is Paula Elliott and while I now live in Canberra I have spent a considerable amount of time living in the NT in the areas Origin is proposing to frack. The NT environment is beautiful but fragile and any exploration or mining will severely damage this.
To establish and work these proposed "exploratory" sites they will need millions of liters of water to drill and frack, equivalent to hundreds of Olympic swimming pools of water. Millions of liters of wastewater will also be produced which they plan to truck interstate, to where??? Origin itself has identified they have no waste water management plan.
The water for the projects is from the Gum Ridge Formation, a region already with scarce water. Local communities in the NT are already complaining of the poor state of the water, fracking will only make this worse.
Despite an enquiry being held and recommendations made there has been no follow through or compliance with the recommendations. Fracking will not reduce emissions but promote a huge carbon footprint in what is now a pristine environment, all while undermining the integrity of our regulatory system.
More importantly, Traditional Owners do not want fracking on their land because of the risks to water, country, and cultural heritage.
If you the NT Government approves Origin's EMP, it will not only be paving the way for Origin to frack and destroy country, water, and our climate, but also setting a horrifying precedent for other fracking corporations to do exactly the same.
I am writing to ask the Department to reject Origin's EMP.

Paula Elliott RN, RM, TTC, Dip N. (UNT), BApp ScN. (UC) Master of Nursing (UC), G Dip QualImpHlthCare (UN), FACN.

Paula Elliott
****
ACT 2600

Ellis, Matthew – Thursday, 11 August 2022 – 15:46:07

Subject	stop origins fracking plans in the NT
From	Matthew Ellis
Sent	8/11/2022 3:46:07 PM

Art: Northern Territory Depart of Environment, Parks and Water Security,

Please stop Origin from fracking in the Northern Territory. The environment is too fragile, the impacts are simply too great. We simply cannot allow these businesses to destroy the land and water for their own short term gain. We need to protect the ecosystem's upon which we all rely. Water security should be paramount. We should not gamble with the future of the country and the survival of a fragile environment.

Yours Sincerely
Matthew Ellis

Matthew Ellis
****
NSW 2534

Ellis, Robin – Sunday, 14 August 2022 – 08:07:04

Subject	No fracking or gas
From	Robin Ellis
Sent	8/14/2022 8:07:04 AM

I am a grandmother and a long time business owner.
I love my country. I love my children and grandchildren.
That is why I am strongly opposed to fracking and mining in our country.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Please don’t open Pandora’s box.

Robin Ellis
****
NSW 2454

Ellis, Sam – Saturday, 13 August 2022 – 20:52:05

Subject	Opposition to twelve new fracking wells
From	Sam Ellis
Sent	8/13/2022 8:52:05 PM

To NT DEPWS
Fracking is counter to water security, conservation, safe food production, the wishes of traditional owners, liveable climate, and the wishes of pretty much the majority of the country.

It sounds like Origin are playing very fast and loose. We probably shouldn't encourage that sort of thing. I realise gas prices are high currently and a lot of people are hot under the collar to turn a big and quick buck on it, but it's not worth it to the rest of us.

Best wishes to you all,
Sam Ellis

Sam Ellis
****
VIC 3071

Ellmore, Vicky – Friday, 12 August 2022 – 20:54:54

Subject	Please reject Origin's EMP
From	Vicky Ellmore
Sent	8/12/2022 8:54:54 PM

To the Northern Territory's Department of Environment, Parks and Water Security

I am making this submission to ask you to please reject Origin's EMP and to please not allow Origin to go ahead with its fracking plans and open twelve new fracking drills in the Northern Territory as they will use too much water, cause cultural heritage, and worsen the climate crisis.

I am an Australian citizen living in Melbourne who is extremely concerned about the state of the environment and climate and Origin's fracking plans will only make the situation worse.

Origin hasn't accounted for or addressed the full climate impacts of these fracking plans. These wells would create a carbon footprint of over 2 million tonnes of emissions. According to the International Energy Agency. there can be no new oil, gas or coal supply projects if the world wants to reach net zero emissions by mid-century.

In addition, 430 million litres of water would be needed to drill and frack the twelve wells in their proposal and the 90 million litres of wastewater produced would have to be trucked interstate.

Importantly, all of the 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking in the Pepper Inquiry have not been implemented. The moratorium on fracking in the Northern Territory was only lifted on the condition that all 135 recommendations would be implemented. This project should not be allowed to go ahead because all of these recommendations have not been implemented.

Finally, Traditional Owners do not consent and do not want Origin fracking on their land because of the risks to local water supplies, country, and their cultural heritage.

For these reasons, I am asking you to please reject Origin's EMP.

Vicky Ellmore
****
VIC 3099

Elphick, Vaughan – Friday, 12 August 2022 – 19:41:02

Subject	Stop Origins Fracking Plans!
From	Vaughan Elphick
Sent	8/12/2022 7:41:02 PM

Hello,My name is Vaughan Elphick, I'll get straight to the point.

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT.

Now, they've lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into their EMP, it's even worse…

They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

But right now, Origin wants to go ahead with fracking without all recommendations implemented.

For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Regards,

Vaughan Elphick

Vaughan Elphick
****
WA 6163

Elston, Kaspa – Friday, 12 August 2022 – 14:19:30

Subject	No fraking no more fossil fuels
From	Kaspa Elston
Sent	8/12/2022 2:19:30 PM

Seriously no more new fossil fuels. We will become a giant sink hole with no uncontaminated water.
Sun, wind and tidal are the only fuels that should be supported.
Individuals are getting rid of gas appliances, we have and are continuing to install solar, then we we all get batteries.
Governments need to protect our planet and therefore us. Gas will run out do not support it it's a waste of time, money and is way too destructive.

Kaspa Elston
****
VIC 3018

Eltham, Dale – Friday, 12 August 2022 – 15:24:15

Subject	Origin must not frack NT
From	Dale Eltham
Sent	8/12/2022 3:24:15 PM

To whom it may concern,
Origin Energy's plan to drill 12 new fracking wells in the Northern Territory is not necessary, prudent, or indeed required or approved by the Traditional Owners of Country it proposes to drill into.
Fracking poses an unnecessary risk to water tables and scares the landscape all for a finite negligible return in gas revenues.
For this to be considered on near pristine traditional lands within the Northern Territory is a national disgrace.
Transition away from reliance on gas export revenues towards a renewable sustainable energy future that respects Culture, Country, and Traditional connections to land needs to be top priority for all government at this critical juncture of global climate crisis.
Stop this national tragedy of sacred land desecration now. Reduced emissions, energy transition, indigenous autonomy and reconciliation is the way forward.
Near sighted short term gain mentality that does not respect traditional cultural values of Country, and poses massive risk to natural water resources long term, simply cannot occur.

dale Eltham
****
NSW 2800

Elvery, Vera – Saturday, 13 August 2022 – 08:40:50

Subject	Stop Origin fracking the NT
From	Vera Elvery
Sent	8/13/2022 8:40:50 AM

To the Northern Territory Department of Environment, Parks and Water Security

Although I am a Queenslander, I feel that what impacts my neighbours in the NT, impacts me too.

Origins plans to frack in the NT are playing with the most important and unreliable resource Australia has - water. We cannot allow the needless overuse of our precious water reserves to continue, either in the NT or across the country generally. We cannot allow the contamination by fracking, mining or agriculture to continue either.

Ordinary people - those most affected by these projects - know the facts and the dangers. Please listen to us and stop Origin's plans!

Vera Elvery
****
QLD 4059

Elwin, Katy – Friday, 12 August 2022 – 11:44:15

Subject	kate.elwin@gmail.com
From	Katy Elwin
Sent	8/12/2022 11:44:15 AM

Hello,
My name is Katy. I live all the way in Geelong, Victoria. Indeed, a fair distance between me and the proposed fracking sites. So why do I care?
I care because as someone that benefits greatly from living in Australia, it is our duty to protect the lands on which we stand. Not just the first nations peoples responsibility, all of ours.

I am about to have my first baby, and during the past weeks of maternity leave, I have become reacquainted and reeducated with environmental issues and current and future directions. Fracking is BAD NEWS. It's clear. Everywhere that it is taken place, has caused enormous damage and lasting change. I don't want my daughter, or anyone's kids growing up in a world where we could have made other choices that better preserve sacred lands and native habitats.

I know we all need access to power, gas, water - but this is not the way. We know better. Let's observe past mistakes and learn from them. Please.

Many thanks, Katy

Katy Elwin
****
VIC 3219

Ely, Bonita – Saturday, 13 August 2022 – 14:51:11

Subject	Stop Origin's fracking in the Northern Territory
From	Bonita Ely
Sent	8/13/2022 2:51:11 PM

In response to the mining company Origin's plans to open 12 new fracking drills in the northern Territory I wish to urge the Northern Territory government to refuse permission, and to make this the response to all such proposals in the future.
CLIMATE CONTROL: It has been scientifically proven that fracking is an environmental disaster. The main pollutant released in the fracking process is methane, a greenhouse gas that traps 25 times more heat than carbon dioxide, contributing a huge negative impact on Climate Change.
WATER POLLUTION The process requires large amounts of water and in the process the water is polluted.
CONTAMINATION OF GROUND WATER: In addition, the cracking of rocks by drilling can create cracks in sub structure, so polluted water leaks into aquifers. The ground water can be essential for farming and domestic consumption.
CULTURAL IMPACT: The Traditional Owners of territories effected by the planned fracking have been defending their country against the Origin company for years and have been ignored, causing major inter generational trauma, and cultural uncertainties for the future. Our Indigenous peoples' claims for control and protection of their countries' natural environments must be honoured given the past disastrous problems caused by the rampant problems we are now trying to address to restore Australia's unique biodiversity.
They have been managing and protecting Australia's natural environments for up to 60,00,00 years so must be cited as the authorities in this crucial matter.

Bonita Ely
****
NSW 2204

Emery, Sonia – Monday, 15 August 2022 – 23:43:17

Subject	Stop Origin's Fracking Plans
From	Sonia Emery
Sent	8/15/2022 11:43:17 PM

I am a mother, grandmother and teacher and live on the south coast of WA. I am writing this submission because I care passionately about protecting the environment for future generations. I also believe in the right of traditional owners to determine what happens on their land.
For this reasons I am absolutely opposed to Origin' Environment Management Plan (EMP) to drill and frack twelve new "exploration" wells on the Amungee Mungee pastoral station.

The company would be using dangerous fracking methods that risk country,water quality and climate while exploring for gas.
Huge amounts of water are needed to frack these twelve drills with a high risk of poisoning the water remote Aboriginal communities that rely on.

Origin has not completed the regulatory processes required to sell the gas they frack, and yet is planning to sell gas from the testing wells, and bypass crucial government approvals.
Origin has not accounted for the full climate impacts of the exploration wells. It is estimated that they will emit 2 tonnes of greenhouse gases. Most of the emissions would be Scope 3 , making it someone else's problem.

A ban on fracking in NT was lifted on condition that 135 recommendations of the Pepper Inquiry are adhered to. Origin has not implemented all the 135 recommendations!

The world is in the middle of a climate crisis and their is no way that Origin should be allowed to proceed with this exploration activity. It undermines the Traditional Owners' opposition to fracking on their land and has the potential to pollute land and water and desecrate their cultural sites.

I urge the NT Government to stop Origin from fracking new
gas wells for exploration.

Your sincerely,
Sonia Emery

Sonia Emery
****
WA 6330

Engl, Renee – Saturday, 13 August 2022 – 10:12:10

Subject	Stop Origin's fracking plans
From	Renee Engl
Sent	8/13/2022 10:12:10 AM

To the Northern Terrritory Department of Environment, Parks and Water Security

I live in Northern NSW and I am staunchly opposed to fracking.
The Traditional owners are also totally opposed to fracking and have been defending their country against Origin for years.

Origin's plans to open 12 new fracking drill int the Northern Territory threaten water, curltural heritage and our climate.
If you approve these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
The climate impacts would be monumental, and that's only when considering the emissions they're actually counting.
And yet, they're claiming they'd be reducing emissions!

The huge amounts of water neede to frack these twelve drills is about 172 Olympic swimming pools worth. If they poison this water with their fracking, remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

As long as fracking impacts our climate, water, and communities, it must not be allowed.

For the Earth

Renee Engl

Renee Engl
****
NSW 2481

Erixon, Eric – Saturday, 13 August 2022 – 19:11:40

Subject	Stop Origin's fracking plans.
From	Eric Erixon
Sent	8/13/2022 7:11:40 PM

Why? Why risk the most precious resource we have in our arid country? If damaged, the artesian basin and other ground waters will make living remote inland impossible. In my opinion, fracking for gas is unsustainable.

Eric Erixon
****
QLD 4740

Erkhova, Lija – Thursday, 11 August 2022 – 15:01:54

Subject	Stop Origin's Disastrous Fracking Plans Please.
From	Lija Erkhova
Sent	8/11/2022 3:01:54 PM

Dear Northern Territory Department of Environment, Parks and Water Security,

If there has ever been a time now to act and look deep into your heart and soul, this is the time now.

There has never been a more pressing issue that has to do with the Security of our Land, Water or Environment, as now. THIS is the VERY existence of why your department is here.

Are you connected to that, or just letting what could be one of the largest and most catastrophic impacts on our Land and Water happen that has ever existed.

Please I ask you, for the Land, for our Animals and for our Water, to please stop these Fracking Plans on our soil, before we make the biggest mistake in history.

Government, please do not just blindly follow the revenue.

It will be very sad if this happens.

Kind Regards,
Lija Erkhova
(Australian Citizen).

Lija Erkhova
****
WA 6051

Escott, William – Thursday, 11 August 2022 – 15:38:22

Subject	Fracking must be stopped at all costs.
From	William Escott
Sent	8/11/2022 3:38:22 PM

Fracking must be stopped at all costs in Australia.
We rely heavily on our underground water aquifers, for our long term survival.
Fracking will render our aquifers unsuitable for use for sentry's and totally destroy our Indigenous heritage.
Please have some consideration for Australia's future. NO FRACKING.

William Escott
****
WA 6318

Escott-Russell, Ros – Thursday, 11 August 2022 – 14:18:38

Subject	Please stop fracking
From	Ros Escott-Russell
Sent	8/11/2022 2:18:38 PM

Fracking should be stopped in this country. I am deeply concerned about water contamination and overall destruction of our beautiful country.
Please listen to local Indigenous people and their concerns.

Ros Escott-Russell
****
NSW 2104

Esika, Ayya – Thursday, 11 August 2022 – 21:50:34

Subject	Stop Fracking in NT
From	Ayya Esika
Sent	8/11/2022 9:50:34 PM

To Northern Territory Department of Environment, Parks and Water Security,
I am a student of Environmental Science. I am writing to present a case against Origin's fracking in the Northern Territory. Why consider allowing fracking in the Northern Territory when fracking in other areas of Australia, for example, Surat Basin in Queensland has caused irreparable environmental damage, created a massive carbon footprint and destroyed people's livelihoods?

With Australia's horrific record for managing the environment, now is the time to stop before our country is decimated. Gas is not clean. It is not green. It is not renewable. It is time to move forward and away from fossil fuels.

This land is part of what little remains of "wilderness" in Australia. Indigenous communities and Native Title holders are against fracking on their lands. It is time we listened to the First Australians about how to care for Country. As the Nurrdalinji Aboriginal Corporation states,
"Fracking will lead to the industrialisation of vast areas of our country. The area will be littered with hundreds of gas wells, vast networks of roads, gas pipelines, processing plants, wastewater ponds and treatment plants. We are concerned for our land, all the creatures which live there, and for our people. Fracking requires enormous amounts of water. Water is life, and we worry that pollution from fracking could poison our precious water supplies and aquifers that run below our country, right across the Beetaloo." (https://www.nurrdalinji.org.au/beetaloo_basin)

What has become of the 135 recommendations in the Pepper Inquiry?
Where is the scientific baseline assessment of the region (SREBA)?
Why has Origin been allowed to drill exploratory wells?
Does Origin have the required licenses for production?
How is Origin managing toxic waste especially with the possible flooding of holding ponds in the wet season that would contaminate the water supply?

The money that the government is planning to spend on fracking is taxpayer's money. This money would be better serve taxpayers if spent in other areas such as health, housing and education, rather than on outdated fossil fuel technology.

In conclusion, I am asking the Department to reject Origin's Environment Management Plan and all other future fracking proposals.

Yours sincerely,
Ayya Esika

Ayya Esika
****
NSW 2575

Esmond, Helen – Saturday, 13 August 2022 – 14:32:59

Subject	Reject Origin's Fracking Plans
From	Helen Esmond
Sent	8/13/2022 2:32:59 PM

Minister Heading the Northern Territory Department of Environment, Parks and Water Security

Dear Minister,
I am not a scientist, but I was an English Head Teacher in NSW High schools before I retired. My training taught me to research and read and to evaluate what I read.
Even in 2013 when the Climate Council had to be established privately after the abolition by government of the Climate Commission, I had read and understood enough to understand in broad outline the problems associated with fossil fuels facing the planet.
Now scientists are understanding it's not only the western side of the Antarctic ice sheet at serious risk of current and ongoing melting, but parts of the huge Eastern Antarctic ice sheet are vulnerable too.
Professor of Climate Science and Associate Director Research, Nerilie Abram from ANU is warning Australians how dangerous a threat is potentially there - a 5 m increase in sea level would occur if that Eastern Antarctic ice sheet were to be lost. The ice sheet is almost as big as Australia's mainland area! Parts of the eastern ice sheet are in contact with the ocean already.
Personally I have tried to do what an individual citizen can do - supporting the Climate Council's initiatives with financial support, supporting Solar Citizens and other environmentally focussed organisations, getting solar panels on my roof, and on my neighbour's adjoining townhouse roof, purchasing a Tesla battery, heat pump hot water etc.
But we are now in an era where we desperately need governments to recognise their responsibilities to think past immediate gain and think long-term for the benefit of their people and the planet.
Professor Abram has said "It's not just individuals doing their part... We need a planned transition across society to implement the changes that are needed."
You are now having a very important decision to make re allowing fracking in the Northern Territory.

Dr Pip Canadell from the CSIRO says "The big take home message {from their report in Nature Geoscience1 July 20} is we have to decouple fossil fuels from the economy".

Please reject fracking in the Northern Territory as one small part of developing the planet's defence against catastrophic impacts of climate change on people, on animals and on the the whole eco system.

Yours sincerely
Helen Esmond

Helen Esmond
****
NSW 2126

Estarion, Goralyna – Thursday, 11 August 2022 – 16:10:30

Subject	Stop Origin's fracking ventures.
From	Goralyna Estarion
Sent	8/11/2022 4:10:30 PM

To the Northern Territory Department of Environment, Parks and Water Security.

I am writing today, to urge you to deny Origin Energy permission to frack in the Northern Territory. Fracking is banned in many places in the world, due to its destruction of the environment and contamination of ground water. It is a particularly destructive and inefficient method of accessing gas deposits, and for the destruction it causes to the land, is hardly worth the returns gained from it.

We are entering an age of investment in renewable energies. This makes destructive practices like fracking, even less economical. More importantly, the Traditional Owners of this land, have made it very clear that they oppose this venture. The land will never recover from this terrible assault on it. Once it's destroyed, you'll never get it back.

Please, reconsider this decision, and honour the opinions of the Traditional Owners, and those of us who care about how companies exploit our resources.

Goralyna Estarion
****
QLD 4221

Evans, Bernadette – Friday, 12 August 2022 – 15:36:42

Subject	4bmcevans@gmail.com
From	Bernadette Evans
Sent	8/12/2022 3:36:42 PM

My name is Bernadette Evans and I am seriously concerned /horrified that Origin is proposing to frack in the NT. I urge the Northern Territory government to reject Origins fracking plans. The future for energy supply does not reside in the ongoing repetitive destructive and OUTMODED practices of the past. Big new ventures in Australia must be future oriented and respectful of undeniable fragile country. What is proposed here is vandalism

Bernadette Evans
****
NSW 2372

Evans, Jeremy – Saturday, 13 August 2022 – 14:16:00

Subject	Stop Origins fracking useless fracking project
From	Jeremy Evans
Sent	8/13/2022 2:16:00 PM

I am writing to request that the NT Govt not approve the Origin fracking proposal on the following grounds.
The proposal is a massive infringement on the First Nation people who are the lands owners and defenders of country.
Climate change is now universally recognised
(even in Australia now) and this mooted project is the antithesis of what the Australian electorate are demanding.
Fracking has been proven to be an environmental disaster and a serious health hazard and should not even be considered.
The only places approving such projects are those run by dictators or authoritarian governments, backward thinking climate denialists and/ or corrupt authorities seeking personal gain.
I urge your government to heed scientific warnings and the mood of world communities in rejecting this proposal and instead looking to renewable energy which is cleaner, more efficient and cheaper.

Jeremy Evans
****
NSW 2579

Evans, Laurence – Monday, 15 August 2022 – 02:03:09

Subject	Fracking madness.
From	Laurence Evans
Sent	8/15/2022 2:03:09 AM

For the sake of humanity, the planet and decency, stop this franking madness now.
Thankyou
Laurence Morlais Evans.

Laurence Evans
****
VIC 3188

Evans, Margaret – Saturday, 13 August 2022 – 17:55:53

Subject	Stop Origin's fracking plans
From	Margaret Evans
Sent	8/13/2022 5:55:53 PM

I believe that fracking is destructive of the resources in Australia and should be abandoned in the interests of the Australian people, and others living on the globe.
It seems to me that we find in Australia a pristine country to live in simply because our European forebears have already destructively exploited treasures in the European land to the cost of endangering the planet itself.
I think in the last few years human beings are waking up to consequences of treating Earth simply as a human playground – a playground to be exploited at will by some even to the detriment of other human beings as well as Earth itself.
It is time to take stock of the evidence now clearly experienced by us all resulting from disturbance of balancing forces in the Earth. These disturbances are teaching us all to stop living in ignorance of the benefits that allow us human beings to continue to inhabit this homeland.

Margaret Evans
****
QLD 4051

Evans, Robyn – Saturday, 13 August 2022 – 21:14:08

Subject	Stop Origins fracking plans
From	Robyn Evans
Sent	8/13/2022 9:14:08 PM

I am a concerned citizen and have been fighting against FRACKING in our local area in the Lower South East of SA for years and thankfully we were successful in stopping this destroying process of the water and country side.

Origin want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.
Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.
Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.
Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.
That's why it's so important that we all rally together behind Traditional Owners.
If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.
Yours Sincerely,
Robyn Evans

Robyn Evans
****
SA 5280

Evans, Roslyn – Thursday, 11 August 2022 – 17:43:41

Subject	Fracking plans must stop
From	Roslyn Evans
Sent	8/11/2022 5:43:41 PM

Do not destroy ground water, heritage sites, do not pollute the air and add to carbon warming.
Roslyn Evans

Roslyn Evans
****
VIC 3204

Everingham, Jo-Anne – Sunday, 14 August 2022 – 14:52:28

Subject	Northern Territory can lead the way - stop Origin
From	Jo-Anne Everingham
Sent	8/14/2022 2:52:28 PM

Northern Territory Department of Environment, Parks and Water Security

Dear Sir/Madam,
Current Australian policy to continue mining thermal coal and extracting gas despite climate change mirrors former perverse political responses in the face of life-threatening cataclysms. Famines spring to mind. E.g. During the Great Famine in Ukraine and parts of Russia as food production collapsed during Stalin's collectivisation 'reforms' (1932-33), more than three million people died while the USSR still exported grain; the Ethiopian famine of 1983 – 1985 also had a proximate trigger of drought and locust plagues but underlying complicating factors notably the counter-insurgency measures of the government including grain price controls and rural resettlement programs. The Mengistu Haile Mariam-led military dictatorship (Derg) used this 1983–1985 famine in Ethiopia as government military policy by restricting food supplies for strategy against the counter-insurgency of the Tigray People's Liberation Front's guerrilla-soldiers, and for "social transformation" in non-insurgent areas (against people of Tigray province, Welo province and such). Even as food aid arrived in the country (to be withheld from affected regions), there were food surpluses sold elsewhere to support government military spending. Due to organized government policies that deliberately multiplied the effects of the famine, over 1 million people died in Ethiopia from the famine and 3 million were displaced. Similarly the (Irish) Potato Famine (*********) resulted in more than 1 million deaths and an exodus of twice as many when potato blight destroyed the staple crop of the masses but protectionist policies, and English landlords quest for profits led to export of unaffordable grain produced. In such cases it is common for government policies to result in disasters coming earlier, striking harder, and extending further than would otherwise have been the case.
Another parallel is the blind eye and inertia that have greeted early stages of genocide (which is rarely a spontaneous accident) – The genocide of 5 million Jews, Roma and other persecuted minorities in Europe began in the 1930s and didn't provoke strong rebukes until the invasion of Poland at the end of the decade. Later, half a million Tutsis were subject to slaughter, rape and other violence in Rwanda in 1994 with no effective international intervention despite the presence of a UN peacekeeping mission) nor meaningful earlier support for Hutu-Tutsi reconciliation despite the implication of colonial powers and European missionaries in creating the divisions. In particular, the roots in Belgium's classification of Rwandans into three ethnic (ethno-racial) groups in the 1930s had unintended reverberations subsequently.
And need I mention the years of unwarranted deprivation that flowed from the inaccurate and unjust characterisation of Australia as Terra Nullius?
Leaders need to face not only current crises, but the potential consequences of their current decisions and proceed sagely rather than in a short-term, opportunistic way. The devastating impacts we're seeing on our ecosystems and livelihoods are happening with just 1°C rise in the planet's average temperatures. We're on track to hit 3.5°C warming by the end of the century and Australia still thinks it should continue to extract fossil fuels for short-term gain. Be strong, and lead the way to containing destruction of our country, water and climate and the cultural heritage of Traditional Owners. Origin's proposed gas wells pose significant damage and haven't met all regulatory requirements to sell the gas ... so stand up for the future
thanks for your consideration and best wishes for wise decision-making

Jo-Anne Everingham

Jo-Anne Everingham
****
QLD 4069

Everitt, Joan – Sunday, 14 August 2022 – 08:59:05

Subject	Stop Origin's fracking plans
From	Joan Everitt
Sent	8/14/2022 8:59:05 AM

Northern Territories Department of Environment, Parks and Water Security

Please put a halt on Origin's plans to open 12 more fracking wells in the beautiful Northern Territory. Australia is hurting from years of climate inaction. When will we wake up to what has been done by large money making companies to damage sacred sites of our original people, jeopardise our waterways by polluting and withdrawing the water for use to grow crops unsuitable for a drought prone country. Decimating species of wildlife on a massive scale while trying to encourage tourism to a beauty that is rapidly fading away. We must act now to turn around previous damage and give this land a chance to rest and recover. If this isn't done, the outcome for all is dire.
Joan Everitt
3 Sutton Street
Vincentia NSW 2540

joan everitt
****
NSW 2540

Everton, Keith – Thursday, 11 August 2022 – 21:16:53

Subject	Stop Fracking in NT and Qld
From	Keith Everton
Sent	8/11/2022 9:16:53 PM

Fracking is banned in America It was also allowed in the Chinchilla district in Qld which resulted in the death of pigs in a pig Farm and the suicide of the owner (Mr George Bender)who spent many years fighting the Qld Govt to stop this fracking as it destroyed the underground water which killed the pigs This area is still poisoned and cannot be used or sold. Keith Everton

Keith Everton
****
QLD 4703

Exter, Kristin – Saturday, 13 August 2022 – 21:13:43

Subject	Stop Origin Fracking the NT
From	Kristin Den Exter
Sent	8/13/2022 9:13:43 PM

To the NT Dept

I submit to you that fracking should be immediately banned in the NT as Origin is not adhering to requirements, as per the recommendations from the scientific inquiry.

Traditional Owners have been staunchly defending their country against Origin for years. I support their call for the immediate halt of Origins plans.

Approving these plans, would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

I urge the NT Government to stop Origin's reckless fracking plans.

Yours sincerely, Kristin den Exter

Kristin den Exter
****
NSW 2480

Ezard, Dani – Sunday, 14 August 2022 – 16:05:06

Subject	Stop Origin's Fracking Plans
From	Dani Ezard
Sent	8/14/2022 4:05:06 PM

To officer at the NT Department of Environment, Parks and Water Security,

The NT lifted the ban on fracking in 2018, provided recommendations from a scientific inquiry into fracking be adhered to. This was to protect community water sources from contamination by fracking chemicals and byproducts, amongst other significant community sustainability and health concerns. In the NT, there is strong community opposition to fracking- and yet these big businesses with big money seem time and again to bypass safety, ethics, and democratic process, and ignore both scientific recommendations and community welfare.

This department needs to put a stop to Origin's fracking plans, or at the very least hold them strictly accountable to the 2018 fracking report recommendations: including making them obtain and pay for a water extraction license (no exceptions).

Regards,

Dani Ezard
****
NT 0870

F, Rod – Thursday, 11 August 2022 – 14:08:47

Subject	Stop Origin's Fracking Plans
From	Rod F
Sent	8/11/2022 2:08:47 PM

Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

Rod f
****
TAS 7005

Fair, Hugh – Sunday, 14 August 2022 – 15:19:57

Subject	STOP ALL FRACKING IN NORTHERN TERRITORY
From	Hugh Fair
Sent	8/14/2022 3:19:57 PM

To the Northern Territory Department of Environment, Parks and Water Security.

Hugh W Fair
****

Hi guys, I'm writing to object to Origin's proposal to frack in the NT. I was a loyal Origin customer for nearly 15years. This came to an end last year with their plans to frack in the NT and their disrespectable treatment of the aboriginal custodians of the land.

Their plans to frack and use vast amounts of water is totally unacceptable in this day and age. This water is then taken with all its pollutants and dumped some where else. The environmental damage will continue long after Origin and the other gas companies have made their money and left the mess behind of the government's to clean up!!

As they have found in North America the jobs don't last for very long, and then the corporation move on to destroy another place.

Origin and other oil and gas companies have a long history of saying one thing and then disregarding the rules that are put in place, from what I read they haven't implemented the recordation's form the 2018 Pepper inquiry!!

Having had millions of dollars of public money handed to them by the previous government, that should have been invested in renewables please do not allow this environmental travesty to move forward!!!

Regards in hope,
Hugh W Fair

Ps I'm writing this so as one my grand children will be able to visit this beautiful area as I have done!!

Hugh Fair
****
SA 5153

Fairthorne, Sandra – Monday, 15 August 2022 – 08:42:53

Subject	please STOP Origin fracking!
From	Sandra Fairthorne
Sent	8/15/2022 8:42:53 AM

I am a playwright, based in Victoria's regional community of Malmsbury. I am writing to implore you to stop Origin from going ahead with it's plans to frack and destroy an area which is a vital part of this entire nation, not just to some huge corporate conglomerate wanting to make yet more profit at the cost of the planet.
We are all so tired of this behaviour and the destructive havoc it wreaks, let alone how the traditional owners must feel at the thought of having yet more country ruined forever.
Please, I beg you, weigh the moral and material implications of this decision, and stand up to this corporate mentality once and for all.
Yours Sincerely,
Sandy Fairthorne

Sandra Fairthorne
****
VIC 3183

Fairweather, Leone – Saturday, 13 August 2022 – 16:06:29

Subject	Stop Origin's Fracking Plans
From	Leone Fairweather
Sent	8/13/2022 4:06:29 PM

To the NT departments of Environment, Parks and Water Security,
Dear Custodians,
Why would those responsible for water, do anything to jeopardize its availability, to those living in the driest country in the world? Australia!
STOP the proposal by Origen to create 12 new fracking drills, without local consent, requiring an amount of water equivalent to that contained in 172 Olympic swimming pools. It's only destructive
and life threatening to those who live there!
Thanks for nothing!

Leone Fairweather
****
NSW 2551

Falcon, David – Friday, 12 August 2022 – 09:17:27

Subject	Stop fracking
From	David Falcon
Sent	8/12/2022 9:17:27 AM

Hello
My name is David Falcon and I live in western Sydney, I am a retiree and look to bright future for my grandchildren.
I am writing to implore you to stop fracking on traditional grounds contrary to the wishes of the custodians.

David falcon

David Falcon
****
NSW 2145

Falconer, Ian – Sunday, 14 August 2022 – 17:01:18

Subject	problems with fracking for gas wells
From	Ian Falconer
Sent	8/14/2022 5:01:18 PM

NT Dept of the Environment
The purpose of fracking is to rupture the rock strata in the vicinity of the drill hole. It is done with very high pressure and may be verified by injecting radioactive markers to establish the limits of the fractures. It has , in past examples, fractured strata above the coal seam, allowing the aquifers to mingle, rendering the previously useable water to become saline and leak out. Because of the variability of the coal and rock strata, it is inherently a fraught process, with substantial environmental risks. I recommend it is not undertaken in the Beetaloo basin.
Professor Ian Falconer

Ian Falconer
****
ACT 2614

Falconer, Moya – Sunday, 14 August 2022 – 18:11:23

Subject	Reject Origin's fracking applications
From	Moya Falconer
Sent	8/14/2022 6:11:23 PM

TO: THE NORTHERN TERRITORY DEPARTMENT OF THE ENVIRONMENT, PARKS AND WATER SECURITY.

My name is Moya Falconer of 3 Duncombe Road, Narangba, qld.

I am deeply concerned by Origin's plan to frack for gas in the N.T. We have been repeatedly warned by scientists that if we are to have any chance of avoiding complete climate breakdown, there must be no further drilling or mining of fossil fuels. We are literally living and experiencing climate climate disaster at the moment. We have run out of time. This proposal will release not only additional carbon into the atmosphere but also methane which is an even worse greenhouse gas than carbon

We only have to look at 49° temperatures in the UK, fires and crop failures in the EU, melting of permafrost and melting of ice at the Poles. And back in Australia our horrifying fires and floods.

If approval is given to Origin's fracking plans it will use huge quantities of precious water and run the risk of poisoning reserves required for consumption by remote communities. Clean, safe water is a human right.

I ask the Department to reject Origin's EMP.

Moya Falconer

Moya Falconer
****
QLD 4504

Falla, Terence – Sunday, 14 August 2022 – 17:14:55

Subject	Stop Origin's fracking plans
From	Terence Falla
Sent	8/14/2022 5:14:55 PM

To the NT Government

We wish to seek to persuade you in the strongest possible terms to oppose the plans by Origin to open twelve new fracking drills in the Northern Territory. We, Terry and Berris Falla, are now respectively in our 77th and 83 year and are old enough to see what has happened to our environment, to the countries of our First Nations peoples, and indeed to planet earth over the period of a short few decades.

This move by Origin will seriously add to the degradation and destruction of land that should be protected at all costs by all those in a position to do so.

We make this plea on behalf of the generations to come; generations whom we wish to see the light on the morning grass and inherit the benefits of our land that, when we let it, takes care of us. As a nation, we need a healthy land, not a wasteland. To approve Origin's plans will be to frack and destroy country, water, climate. It would also set yet another dangerous precedent.

We are poignantly aware that Traditional Owners have been seeking to defend their country against Origin for years.

Historically, you will be serving the interests of now, of the future, of the Traditional Owners, and of us all, by stopping this plan from proceeding.

Terry & Berris Falla

Terence Falla
****
VIC 3996

Famlonga, Julia – Sunday, 14 August 2022 – 15:36:08

Subject	STOP RELYING ON FOSSIL FUELS AND SAY NO TO COAL SEAM GAS FRACKING
From	Julia Famlonga
Sent	8/14/2022 3:36:08 PM

Origin Energy seems hell bent on fast tracking disastrously destructive and invasive gas production from coal seam gas fracking at 12 new wells on the Amungee Mungee pastoral station.

I have been led to believe that Origin Energy are going to use an "exploratory license" which technically means they are not fracking for profit, but only testing to see how much gas they might be able to pump out of the ground using destructive fracking processes.

Once they confirm there is gas there (and have the necessary government approvals), they will then start the approval process for "production licenses", so that they can sell the gas.

However, it would appear that Origin are planning to pre-sell the gas from this proposal before they have a production license.

And once Origin moves from exploration phase to production phase, the scale of the damage to the land, ground water, flora and fauna is exponential.

Why, when our planet is in such disastrously poor health, are ANY governments even considering allowing the fossil fuel industries to continue destroying the environment?

The continued reliance on finite fossil fuels is a recipe for disaster, both short term and long term, for every species on the planet.

I believe that a responsible government, using logic, should be focusing on research and investment into clean, sustainable energy sources.

Please stop chasing profits and instead concentrate on what is best for our planet.

Concentrate on what is best for all species today, tomorrow and further into the future and say NO to coal seam gas fracking.

All life depends on a clean, healthy environment.

Julia Famlonga
****
WA 6105

Farandel, Imogheena – Sunday, 14 August 2022 – 18:41:07

Subject	Please NO FRACKING my beautiful Territory
From	Imogheena Farandel
Sent	8/14/2022 6:41:07 PM

Hi,
I'm a Territory girl - grew up here and stayed on as an adult. I was of a generation all my friends headed south and almost no one came back.

I did, because there's nowhere else that's as good as here. That's home.

I could bombard you with facts as to why the Origin fracking is a bad idea. But they won't express my position. I'll try to address them properly.

All my life in the NT there's been either a boom from the Next Big Thing where everyone gets rich apart from us normal everyday Territorians, whose lives and budgets get squeezed having to compete with the big money.
The money goes away and we get a bust. The busts don't affect the companies that caused the Boom. They're long gone and so is their money. But it affects us locals badly.

And then the Next Big Thing comes along and off we go again.

This is ridiculous. What's even more ridiculous is this Next Big Thing you guys are letting happen is not going to profit us any more than anything else will.

And it's going to be built on uh... gas???? Hey look. I really really really don't want to end up being blown down south by a cyclone so severe it smacks Darwin and the rural area out. You're going to let a project go that has huge environmental holes all through it???? WHY!!!!!!!!
You're here to do what's right by the Territory, not a few big profit players. Please Please do so.

As for the Traditional Owners side of it, can we please finally start admitting it's their land TOO. I've just had my entire overseas family visit and they've gone from one indigenous tourist thing to another, spending money all the way.
I'm extremely uncomfortable with this level of exploitation. It's ok to name everything in Darwin with Larrakia names, and with local nations names around the NT, and be doing the tourist hard-sell about the oldest living culture. But seriously? If the Territory is going to sell it for all it's worth, then for goodness sake can we give traditional owners all around the NT the respect they deserve? We all know they're being exploited to the hilt, and that people 'consulting' them go in either with western ideas of who's in charge to consult, or they just find the person who's saying what they want to hear.

This is not good enough. We ALL need to listen to indigenous people over everything that affects them. This will affect them. So make damned sure these TOs are consulted in a culturally appropriate way, and then whatever they say, to actually act on that.

No more exploitation. It's sickening. And I have noticed every tourist who comes here to experience the worlds oldest living culture, who get a whiff of the exploitation happening regarding the, are sickened too. It's not right. It's not moral. It's not ok. Can the Territory finally actually practice what we preach regarding indigenous people?

I do hope you consider my view as someone who not only is a local but one who has been all along.

Regards, Imogheena Farandel.

Imogheena Farandel
****
NT 0810

Farkas, Michael – Friday, 12 August 2022 – 14:46:08

Subject	Stop Origins fracking plans immediately
From	Michael Farkas
Sent	8/12/2022 2:46:08 PM

Come on guys, please please please do the right thing by our Planet and Country. Stop these ridiculous outdated plans that will destroy habitats and this beautiful land.

Michael Farkas
****
NSW 2000

Farrell, Robyn – Thursday, 11 August 2022 – 14:39:13

Subject	Stop fracking
From	Robyn Farrell
Sent	8/11/2022 2:39:13 PM

To NT Government department for the environment.
Please ?? just do not let fracking by Origin go ahead, our nation is being ruined by these organisations.
Just listen and act on what the community are demanding before, it is too late.

Robyn Farrell
****
NSW 2541

Farrer, Jennifer – Sunday, 14 August 2022 – 12:42:57

Subject	Origin's fracking Plans are Bad for the Country and the Climate
From	Jennifer Farrer
Sent	8/14/2022 12:42:57 PM

To the Northern territory Department of Parks and the Environment.

I am concerned that there is a proposal by original Energy to start fracking for gas in the Northern Territory.

This proposal will make it much more difficult for Australia to reach its target of a 43 % reduction in greenhouse gas emissions by 2030.

It is against the wishes of the traditional owners who see the creation of these wells as a desecration of their country.

Fracking wells are also a threat to the water supply not only using a large amount of water but also posing a risk of polluting the water supply.

Please reconsider.

Jennifer Farrer
****
NSW 2154

Faulkner, Carol – Sunday, 14 August 2022 – 13:52:40

Subject	No new gas projects
From	Carol Faulkner
Sent	8/14/2022 1:52:40 PM

Department of Environment, Parks and Water,
Northern Territory Government

I submit that the Northern Territory Government must not approve Origin's plans for twelve new fracking drills in the Northern Territory.

In support of my submission I cite the May 2021 report by the (traditionally conservative) International Energy Agency titled "Net Zero by 2050: A Roadmap for the Global Energy Sector". The report advises there should be "no new oil and gas fields approved for development beyond projects already committed to as of 2021".

The IEA's advice must be taken seriously and acted upon if Australia and the world is to avoid the escalating catastrophic effects of climate change. The first priority of all governments is to ensure the safety of its citizens. We've already witnessed untold harm from bushfires, flooding, drought and heatwaves. These events will only get worse unless governments act now by implementing the recommendations of the Intergovernmental Panel on Climate Change and bodies like the International Energy Agency.

When assessing new projects, governments must give consideration to the triple bottom line - society, economy, environment. Under the current circumstances of advanced climate change, there is no way it could be argued that the economic value of a climate-wrecking project such as Origin's planned fracking wells outweighs the health and wellbeing of the community - and not just today's community but also the next and future generations. Origin's plans must be refused for the safety of society now and henceforth.

Carol Faulkner
****
SA 5014

Fenech, Mario – Sunday, 14 August 2022 – 09:15:46

Subject	Stop Origins fracking Plant
From	Mario Fenech
Sent	8/14/2022 9:15:46 AM

There are many reasons why these projects should not proceed. Apart from the strong opposition to fracking from traditional owners there is irrefutable evidence of the environmental damage, contamination of precious water resources and increasingly this destructive activity is linked to severe seismic activity, which can result in loss of property and loss of life.

Mario Fenech
****
VIC 3161

Fennell, Sonya – Saturday, 13 August 2022 – 21:25:06

Subject	DO NOT FRACK, ORIGIN!
From	Sonya Fennell
Sent	8/13/2022 9:25:06 PM

We all know that just because "the science" tells you to adhere to certain procedures to be allowed to frack, doesn't mean it'll all be hunk dory!

Which part of " the Earth's popuations are on the brink of collapse" don't you understand?

Sonya Fennell
****
SA 5155

Ferguson, Heather – Monday, 15 August 2022 – 16:06:59

Subject	Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program
From	Heather Ferguson
Sent	8/15/2022 4:06:59 PM

Thankyou for the opportunity to respond to this submission. I attach our comments.
Please do not publish our contact details provided below.
Our contact details are:
Heather Ferguson 25/43 McLachlan St Darwin NT 0800, ********** <mailto:**********> , ********* 581
Carl Stephens 25/43 McLachlan St Darwin NT 0800, ********** <mailto:**********> , ********* 780

Regards
Heather Ferguson & Carl Stephens

15 August 2022

Submission to: the Honorable Environment Minister Lauren Moss

Re: Origin Energy Amungee NW Delineation Program Environmental Management Plan

> *"In the United States of America (US), the 'shale gale' gas revolution … developed in an almost legislative lacuna, with poor regulatory governance resulting in poor environmental outcomes. The term 'fracking', whether for coal seam, tight, or shale, gas, has therefore become synonymous with water contamination, water depletion, land degradation, air pollution and chronic health problems."*[1]

We are long-term residents of the Northern Territory (NT) with a strong interest in maintaining the magnificent, much loved but fragile environment across the NT. Our recent federal government change indicates the strength of concern for our environment, and in particular concerns about the massive expansion of gas production, held by citizens throughout Australia.

We would like to comment regarding the Amungee NW Delineation Environmental Management Plan (EMP) submitted by Origin Energy. We have significant concerns about this EMP and request that the Minister refer this project to the Environment Protection Authority (EPA) for a full and thorough assessment under the Environment Protection Act.

It is also important to comment that the NTG accepted all of the recommendations of the Scientific Report into Hydraulic Fracturing in the Northern Territory (The Pepper Inquiry) and promised to ensure that ALL recommendations were implemented prior to fracking taking place. Hence to prevent known disastrous consequences of fracking, strong regulatory governance and legislation is required.

> *"Based on the evidence from the US, the Panel finds that there is significant potential for accidental releases, leaks and spills of hydraulic fracturing chemicals and fluids, flowback and produced water. Most of the reported incidents of contamination of surface waterways and groundwater have been the result of surface leaks and spills. Effective management of these surface issues is therefore a key requirement for any onshore shale gas industry in the NT. "* [2]

Gas Exploration or Production?

While this EMP is relevant to an exploration and appraisal license for 90-135 days, there is an apparent request for extension of this to 730 days to allow for external sale of the gas extracted, and expectation that the Norther Territory Government (NTG) will change legislation to enable this.

> "Currently, NT legislation DOES NOT ALLOW for use of gas during exploration …" [3]

The rationale provided is to reduce overall Greenhouse Gas (GHG) Emissions, as outlined in Table 24, which appears to be an environmental benefit.[4] However the classification is confusing. Due to classification, Scope 1 emissions will reduce but the gas used by others (Scope 3) will still contribute to total GHG emissions of the Northern Territory, just not be incorporated as Origin Energy's contribution.

Origin expects to release over half a million tons of GHG emissions for 135 days testing for this project. Offsetting this gas is "mitigated through the prioritisation of beneficial use of appraisal gas" despite this not being possible under NT legislation.[5] Hence there appears to be no capacity to offset 500 000 tons of GHG emissions.

Origin outlines future shale gas developments GHG offsets such as:

> "…field electrification, flare minimisation strategies, use of renewable energy sources and procurement of emission offsets. Scope 3 emissions will also be reduced through investigation in low emission technologies, such as carbon capture and sequestration (CCS) enable blue ammonia/ hydrogen and electricity export. " [6]

Unfortunately, carbon capture and sequestration is not proven to be effective at scale, as demonstrated by the largest CCS program globally, Chevron's Gorgon project. This project aimed to capture 80% of GHG emissions but has fallen short of this target despite $3 Billion expenditure.[7]

Water

Water is a scarce resource in the NT, with underground aquifers and bores providing water for many for human consumption, agriculture and environmental sustenance. Massive volumes of water is required for this exploration process and is being taken out of the water system when strategic water planning remains incomplete in the NT.

This exploration project will require an expected 430 ML of water over 3 years although it appears that up to 525ML have been approved. 430ML is nearly 2 ½ times the volume of Manton Dam, and this is only for 12 wells. Should production fracking be approved, there will be serious impacts on our already scarce NT water resource.

There appear to be many 'anticipated' solutions in this EMP, indicating a significant level of uncertainty as to how environmental risks will be managed particularly referring to drilling waste, water and wastewater.

> "…Drilling fluids and solids ***may be*** transferred to lined tank/ pit (in accordance with section C.4.1.2 of the Code), disposed of in accordance with section 4.15.2.3 of this EMP…" [8]

Also, for example:

> "…If the material is unsuitable for on-site disposal (such as the moisture content is too high or the material is incompatible with surrounding soils or the analysis of the material indicates it is inappropriate for on-site disposal (as per C.4.1.2 of the Code), the material ***may be*** left in-situ across the wet season to allow for the material to dry during the subsequent dry season or be transported offsite. If on-site disposal is not feasible, all solid material will be transported off-site to an alternative suitable exploration location (such as Kyalla 117 N2) or a licenced facility…" [9]

It is ***anticipated*** that the facility will be Westrex waste facility in Jackson Queensland however this is not certain. If not, where will the waste be disposed of? Material left in-situ during the wet season will most likely be washed away into nearby water systems by wet season rains, and hence need no further mitigation by the following dry?

The risk assessment carried out by Origin Energy determines that there will be no significant impacts to ecological function of surface water bodies or viability of groundwater systems to support ecological, economic and community activities, nor endangered species. However, the

assessment is NOT independent. Self-assessment in this case results in the proponent determining that the level of potential environmental impact is *not considered significant*. This is clearly a subjective determination.[10]

Environment Protection Act 2019	Activities which have the potential to cause a significant impact to the environment are required to be referred to the NT EPA for assessment under the *Environment Protection Act 2019*.	Origin has completed a self-assessment. The level of potential environmental impact is not considered significant.	Northern Territory Environment Protection Authority (NT EPA) DEPWS

Biodiversity

While endangered species are known to inhabit the area proposed for exploration and appraisal, Origin Energy have accepted only their potential to be present. Origin Energy dismiss endangered species presence as "unlikely" based on the existing habitat. Origin Energy determined that there is little risk to such species as the Crested Shrike-tit based on a survey of 15 minutes.[11] No Crested Shrike-tits were observed during these surveys. As amateur bird watchers we can assure you that few birds can be observed within a 15-minute observation period. This level of assessment is clearly inadequate and needs to be assessed independently to adequately protect our endangered species.

Due to the many and serious concerns for protection of our environment outlined above, we request that the Minister refer this Origin Energy EMP to the EPA for a full Environmental Impact Assessment. We would like the Minister to ensure that our water, our environment and our endangered species are adequately protected. We also request that Origin Energy NOT be approved for 730 days of "exploration".

Kind Regards

Heather Ferguson and Carl Stephens

[1] Northern Territory Government. Scientific Inquiry into Hydraulic Fracturing in the Northern Territory. Summary of the Final Report April 2018. p5
[2] Northern Territory Government. Scientific Inquiry into Hydraulic Fracturing in the Northern Territory. Summary of the Final Report April 2018. p10
[3] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p72
[4] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p73
[5] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p72
[6] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p81
[7] Michael Mazengard, "Chevron concedes CCS failures at Gorgon, seeks deal with WA regulators" 19 July 2021
https://reneweconomy.com.au/chevron-concedes-ccs-failures-at-gorgon-seeks-deal-with-wa-regulators/
[8] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p60
[9] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p61
[10] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p26
[11] Origin Energy ENVIRONMENTAL MANAGEMENT PLAN p136

Ferrell, Rose – Saturday, 13 August 2022 – 19:17:46

Subject	It is UNCONSCIONABLE TO ALLOW FRACKING IN THE NT
From	Rose Ferrell
Sent	8/13/2022 7:17:46 PM

Dear Officers,
I ask that you reject Origin's plans for fracking ventures in the Northern Territory and leave no doubt in the mind of other companies that fracking is NOT going to be approved on Indigenous, nor any land in the Territory now, or at any time in the future. It is vital that this madness be shown up for what it is - the most cynical and greedy attempt to take advantage of inflated prices for gas, and at the same time trashing Australia's natural and cultural heritage.

My name is Rose Ferrell. I am an educated woman from regional Western Australia, a researcher, a mother, a climate activist and a passionate advocate for the next generation of Australians.

Origin's application to drill and frack a 12 new "exploration" wells on the Amungee Mungee pastoral station, 50 km east of Daly Waters is based on their intention to SELL this gas for profit. This is not the intention of an exploration licence. In 2012 WAMW 12 case, Darling Range South P/L v Ferrell & ors, which was an application for an exploration licence in Western Australia, the Mining Warden found in favour of the Objectors on the basis that the Applicant (Darling Range South P/L) were relying on the fact that exploration licences were approved more lightly, and once this had occurred it became a foregone conclusion that any project was almost automatically granted a mining licence.
In that case, Warden Wilson found that the Applicant had made no special investigation of the effects of its proposal upon all aspects of the environment (as defined by s. 3(1) & (2) of the Environmental Protection Act of Western Australia). In fact, the Applicant had NOT addressed the environment at all, as defined as "the social surroundings of man [being] his aesthetic, cultural, economic and social surroundings to the extent that those surroundings directly affect or are affected by his physical or biological surroundings." (Para 124, 2012 WAMW 12, pp. 36-37). Instead, the Applicant was, in effect, relying upon discrediting the Objectors as self-interested, and relying upon the due granting of the exploration licence which in turn would almost guarantee the further grant of a mining licence over the lands required by the Applicant for its purposes of mining for profit, under conditions set by the Minister, which still, at this stage, pre-supposed consideration of the environment which had in fact, not included 'public interest' over that environment; which was indeed, only the most cursory and rote consideration of the environmental effects of the proposal.
It occurs to me that in this case the same is occurring with Origin gas, who are flouting the intention of the 'exploration licence', and presupposing the right to frack for profit, without any proper consideration of the well-being of the people attached to the environment (in its broader meaning as described above). In the case of fracking as an operation in and of itself, this is madness, given the known state of the climate, if nothing else.

The fact that fracking is a risk to country, water, and climate makes this proposal look like insanity. Origin haven't accounted for or addressed the full climate impacts of their proposal, and they are also claiming that by selling gas, they will reduce emissions. This is a blatant falsehood. Under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions. It is already clearly established that gas is not a viable option while transitioning to renewables because gas production is leaky and creates greenhouse gases (in huge quantities)

which hasten climate change. Scope 1 emissions alone from the exploration licences are equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

Not only that, Origin needs 430 million litres of water to drill and frack the twelve wells in their proposal. AND they will also produce 90 million litres of wastewater which they are planning to truck interstate. They have also not implemented all the recommendations from the crucial Pepper Inquiry of 2018. In that, Traditional Owners gave evidence to a Scientific Inquiry into Hydraulic Fracturing in the Northern Territory (known as the Pepper Inquiry) which resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1 Now Origin wants to go ahead with fracking without all recommendations implemented.
For example:

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.
And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system. This is simply unacceptable. Not only that, it would behove governments of the future to meet the cost of rehabilitation of land, water and to cover the health and well-being costs associated with the ill effects of the contaminated water, the released greenhouse gases, the land degradation, loss of biodiversity habitat... the list goes on. All once Origin shareholders have left the site for good with nice healthy bank balances.

Origin's proposal is unacceptable not just to the Traditional Owners. The people of Australia spoken loudly and clearly at the recent Federal election to show that they will not tolerate more climate obfuscation and dallying. The cost for Australians all over our continent is too high.

I urgently implore you to reject ALL of Origin's exploration licences; and/or rescind all licences already granted to frack in the Northern Territory. This is the only way forward; the only creditable response from responsible governments.

Thank you for doing all in your power to stop this madness and restore sanity.

Warm regards,
Rose

Rose Ferrell
****
WA 6260

Ferris, Margaret – Monday, 15 August 2022 – 16:14:10

Subject	Please Reject Origin's Fracking Plans
From	Margaret Ferris
Sent	8/15/2022 4:14:10 PM

I'm backing with all my heart the Traditional Owners, Caretakers of Country, their home for over 60,000 years, in asking you to reject any proposed plans for fracking in the NT.
It is 2022 ! and reliable science tells us that only IF we stop digging up and burning fossil fuels right now and, between now and 2030, draw down carbon dioxide from the atmosphere and assist natural processes (eg. protect old growth forests and mangrove shorelines etc.) to keep excess out of our planet's atmosphere we might be able to mitigate the extreme escalating effects of climate change. Just Might. That's only 8 years.
How can embarking on any new atmosphere- heating gas or coal projects be any kind of good investment?

Sincerely,

Margaret Ferris

Margaret Ferris
****
SA 5069

Feszt, Janice – Monday, 15 August 2022 – 06:39:03

Subject	Cease Origin's plans for -2 new fracking wells on Northern Territory against the wishes of the Traditional Owners of the land.
From	Janice Feszt
Sent	8/15/2022 6:39:03 AM

Stop the process of Origin's plan for -2 new fracking wells in Northern Territory, against the wishes of the Indigenous Traditional owners advice and wishes!

Janice Feszt
****
NSW 2086

Field, Spencer – Friday, 12 August 2022 – 17:23:53

Subject	Stop Origin’s reckless and destructive fracking plans
From	Spencer Field
Sent	8/12/2022 5:23:53 PM

As you are aware, Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down and appear to be doing anything they can to bypass proper processes, all without consent.

The NT Government must stop these plans in the best interests of fighting climate change, protecting the environment and protecting the very significant cultural heritage values of the area.

Thank you.

Spencer Field
****
VIC 3777

Fielder, Margaret – Sunday, 14 August 2022 – 14:05:28

Subject	Don’t Frack the Northern Territory
From	Margaret Fielder
Sent	8/14/2022 2:05:28 PM

Don’t frack the Northern Territory

Margaret Fielder
****
QLD 4305

Fielding, Sue – Friday, 12 August 2022 – 13:47:21

Subject	sue.fielding16@gmail.com
From	Sue Fielding
Sent	8/12/2022 1:47:21 PM

I write to ask that the NT Government reject Origin's plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.Traditional Owners have been defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Please act in protection of our precious country.

Sue Fielding

Sue Fielding
****
NSW 2834

Fields, Hali – Thursday, 11 August 2022 – 17:35:39

Subject	Stop Origin's Fracking Plans in NT
From	Hali Fields
Sent	8/11/2022 5:35:39 PM

Northern Territory Department of Environment, Parks, and Water Security:

My name is Hali Fields, an Australian citizen recently returned from living in the USA. I was gladdened to see that awareness of the rights of First Nation peoples is much more prominent in the current culture. I am aware that the situation and preferences of First Nation people's are often ignored.
As in the case in Northern Territory where opposition to fracking is widespread and not considered relevant. While in the USA, I often read horror stories from people who live near franking sites. Stories of ill health, poisoning of water, pollution, and scarring of land.
Please don't let our country and our people be contaminated by fracking anytime, anywhere. The damage is real and long lasting.

Sincerely, Hali Fields.

Hali Fields
****
VIC 3051

Figueiredo, John – Sunday, 14 August 2022 – 18:09:38

Subject	Origin Cannot be Allowed New Fracking Drills in the Northern Territory (or Anywhere Else)
From	John De Figueiredo
Sent	8/14/2022 6:09:38 PM

Please listen to the Traditional Owners. They have managed the country for perhaps 60,000 years, over 200 times as long as European settlement has been here. Consequently they know a thing or two about how our land works. Please listen to them.

I am a resident of the seat of Kooyong in Victoria. As you have probably heard we unseated the former Federal Treasurer in favour of Monique Ryan, as strongly climate-focused independent who represents the views of a large proportion of the population.

Many of us would like to pass on to future generations a habitable planet. The rapacious fossil fuel lobby is prepared to put their own prosperity ahead of what is good for mankind as a whole. In particular Origin Energy is attempting to open new fracking projects at a time when the IPCC is telling us that we cannot afford any new fossil fuel projects if we are to meet the aim of the Paris Agreement to keep global warming "well below 2 degrees Celsius".

In summary, I urge you to reject Origin's EMP (Environmental Management Plan).

John de Figueiredo
****
VIC 3127

Fillingham, Ray – Friday, 12 August 2022 – 20:31:12

Subject	Fracking
From	Ray Fillingham
Sent	8/12/2022 8:31:12 PM

I am disgusted to here you are going ahead with Fracking when it is one of the significant contributors to climate change.

PLEASE RECONSIDER THIS,
Ray Fillingham

Ray Fillingham
****
VIC 3806

Finck, Elizabeth – Sunday, 14 August 2022 – 17:58:10

Subject	Origin
From	Elizabeth Finck
Sent	8/14/2022 5:58:10 PM

Northern Territory Department of Environment, Parks and Water.

I am a South Australian who has travelled in the NT on a number of occasions and I am extremely concerned that the NT government appears to be disregarding the views and objections of the traditional owners and many of us around the country in allowing fracking corporations to move into the NT and destroy the natural environment. In a dry country such as ours, water is such a vital ingredient in our lives that needs to protected at all costs, both for humans and for wildlife. Fracking is a dangerous activity, with little oversight or long term safety assurances in terms of protecting the environment. It is also a huge threat to our future, as it contributes enormously to climate change. This must be stopped. It is the responsibility of the government and the traditional owners to protect our environment and natural heritage from destruction and to shield the Australian people from the effects of climate change. The traditional owners are taking their responsibility seriously and have advised the NT government to stop fracking in the NT. I strongly back this stance and urge the NT government to reject the proposal from Origin Energy and any other fracking corporations to open new fracking drills.

Kind regards
Elizabeth Finck
4 Cooinda Ave
Flagstaff Hill SA 5159

Elizabeth Finck
****
SA 5159

Fingleton, P – Thursday, 11 August 2022 – 15:22:31

Subject	Freaking plans by Origin
From	P Grey Fingleton
Sent	8/11/2022 3:22:31 PM

Fracking is dangerous because you cannot control it. It is dangerous to the table water and produces pollutant energy. Do not allow it.

P Grey Fingleton
****
NSW 2145

Finnane, Kieran – Thursday, 11 August 2022 – 15:10:25

Subject	Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program
From	Kieran Finnane
Sent	8/11/2022 3:10:25 PM

To those dealign with this in the NT Department of Environment, Parks and Water Security and ultimately to the NT Government,

I am a long-term resident of central Australia: I've worked here for more than three decades and raised a family here; I have deep ties with my community of Mparntwe Alice Springs. I am also a citizen of the world with grave concerns for its future and that of the coming generations.

I am deeply opposed to any further pursuit of obtaining gas by hydraulic fracturing in the NT, indeed to any new fossil fuel projects anywhere, as, according to the best advice from the UN, they are incompatible with Australia and the world achieving the emissions reduction targets necessary to limit global warming to 1.5 degrees C (already bad enough).

Additionally, the Territory has considerations specific to it of particular concern to me: the massive use of water in the fracking process with deleterious impact on our precious ground water resources; and the destructive impact of the the whole process on Traditional Owners and their country, including causing corrosive division amongst them.

I urge you to listen to the voices of ordinary Territorians on this matter.

Your sincerely,

Kieran Finnane

Lot 1891Petrick Road
Connellan
PO Box 1613
Alice Springs 0871
Mob: ********* 330

Fisher, Laurel – Friday, 12 August 2022 – 08:42:59

Subject	stop fracking to save the country
From	Laurel Fisher
Sent	8/12/2022 8:42:59 AM

Please support our water supplies and country - stop the fracking.

Instead we need your support for renewable energy supplies - such as wind and solar. All this is combined with planting trees and other plants to keep air breathable and as sources of food.

with thanks
Laurel

Laurel Fisher
****
NSW 2011

Fisher, Les – Thursday, 11 August 2022 – 14:34:44

Subject	No fracking in NT or anywhere in Australia
From	Les Fisher
Sent	8/11/2022 2:34:44 PM

If the NT Government approves plans to more fracking, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Les Fisher
**********s
QLD 4163

Fisher, Peggy – Saturday, 13 August 2022 – 21:48:49

Subject	Stop Origins Fracking plans.
From	Peggy Fisher
Sent	8/13/2022 9:48:49 PM

To the Northern Territory department of Environment, Parks and water security,

I implore you to think very carefully before approving more fracking areas that will threaten the water and cultural heritage of first nations people.
Gas is in high demand right now, and this is emphasized by the gas companies.
But our climate is under threat and gas mining must stop, and will stop within a few years.
It would be an absolute travesty to ruin the water supply and quality for ever, for just few years of gas.
You have the power to make the right decision for the long term future. I beg you to use it wisely.
kind regards
Peggy Fisher.

Peggy Fisher
****
NSW 2071

Fisher, Steb – Sunday, 14 August 2022 – 15:33:02

Subject	Fracking by Origin in the NT
From	Steb Fisher
Sent	8/14/2022 3:33:02 PM

The benefit gained by a few extra MJ of gas as against the catastrophic damage to country, to water systems and to the atmosphere is paltry. By any sensible logic, it must be stopped.
Sincerely
Dr. F. S. Fisher

Steb Fisher
****
VIC 3823

Fitt, Rita – Saturday, 13 August 2022 – 16:32:14

Subject	Stop Origen fracking land
From	Rita Fitt
Sent	8/13/2022 4:32:14 PM

Northern Territory Dept of environment parks
and water security.
To whom it may concern.
Although I now live in Melbourne, I used to work in North Q'land. I loved the north and am now devastated to hear of at least 12 new fracking drills in the Northern Territory.
I could weep for our land but especially for the traditional owners who know that fracking will threaten the water, their cultural heritage and our climate.
Origen please I beg you to listen and hear the cry of the people who love their land. Origen who are you thinking of as you plot your ways to get your plans met. Think big beyond just you and your gains. I have read so much of the struggle of the traditional owners to act out of concern for this country, our country which Origen does not own legitimately.
Please do not DESTROY our water, our country and our climate. Think Big. Think of others think of the present and the future of this country. Origen you do not have approval to act just for yourself.
ACt now act selflessly. Care for our planet.
Who has the courage to stand up for what is right? Are you Origen? Show us your good will and not just a selfish grab for your own sake.

Rita Fitt

Rita Fitt
****
VIC 3083

Fitzgerald, Gregory – Saturday, 13 August 2022 – 14:43:11

Subject	Stop origins fracking of NT,NO ALL of Australia
From	Gregory Fitzgerald
Sent	8/13/2022 2:43:11 PM

I'm not sure what country you live in,but we are in a climate emergency,local indigenous people don't want you to crack on their country,which is also MY country.im white and you need to stop your going ahead without our permission,pay every Aussie,1million dollars,still NOT Enough for damage you will cause,NOT on MY watch,NOW OR EVER.

Gregory Fitzgerald
****
SA 5008

Fitzgerald, Tony – Sunday, 14 August 2022 – 14:40:40

Subject	Stop Origin fracking
From	Tony Fitzgerald
Sent	8/14/2022 2:40:40 PM

Fracking will cause irreparable damage to the environment especially in NT . Please stop companies doing this & refuse all future projects.

Tony Fitzgerald
****
TAS 7005

Fitzgerald, Wendy – Monday, 15 August 2022 – 09:52:29

Subject	Stop Origin's fracking plans
From	Wendy Fitzgerald
Sent	8/15/2022 9:52:29 AM

I ask that the Northern Territory Government not give approval to fracking the land. The land and water are precious and critical for life. The earth can no longer sustain these practices and the damages will ensure destruction from which we are unlikely to ever recover.

Wendy Fitzgerald
****
NSW 2422

Flannery, Wendy – Thursday, 11 August 2022 – 17:23:14

Subject	Without caps on fossil fuels none of us have a future
From	Wendy Flannery
Sent	8/11/2022 5:23:14 PM

The United Nations Secretary General has warned humanity several times in the past few months that to continue to depend on fossil fuels for our energy is to choose suicide. Is this what we really want, so that energy companies like Origin can keep doing their dirty work and enjoying their profits while other people already suffer the disastrous effects? I beg you: please do not approve Origin's suicidal fracking plans!

Wendy Flannery
****
QLD 4151

Flaxman, Martin – Saturday, 13 August 2022 – 14:44:56

Subject	Stop origin energy fracking plans in NT
From	Martin Flaxman
Sent	8/13/2022 2:44:56 PM

Fracking will destroy water resources used in Aboriginal country.

Martin Flaxman
****
NSW 2576

Flett, Graham – Thursday, 11 August 2022 – 15:41:56

Subject	Stop Origins fracking plans
From	Graham Flett
Sent	8/11/2022 3:41:56 PM

It is beyond idiocy for more gas fracking in Australia. CLIMATE CHANGE.
It is immoral to frack aboriginal land with out their approval,and you do not have it!
It is nothing but greed so stop

Graham Flett
****
VIC 3225

Flood, Lesley – Sunday, 14 August 2022 – 08:04:17

Subject	Stop Fracking Plans
From	Lesley Flood
Sent	8/14/2022 8:04:17 AM

Stop the fracking for climate change reasons and preserve the land for indigenous owners

Lesley Flood
****
NSW 2101

Floyd, Jac – Saturday, 13 August 2022 – 13:48:00

Subject	Stop Origins fracking plans
From	Jac Floyd
Sent	8/13/2022 1:48:00 PM

To the Northern Territory Department of Environment, Parks and Water Security.
Over the years, I have spent much time in the Northern Territory, exploring the stunning wilderness and experiencing life in and around Indigenous communities. I am horrified and disgusted at the apparent arrogance and lack of concern shown by Origin, as the giant company ploughs on with self interested plans, in blatant disregard for us the people, the wildlife, the future generations and indeed the future of the world we live in. How can this belligerence and lack of regard be tolerated? Allowed? For Origin to forge on in the face of strong voices calling for a halt, calling for justice, advocating on behalf of the land and the creatures without a voice, in defiance of evidence and science, to go ahead is beyond belief. This is what hurts the most - the sheer bullying and injustice of it all. And who will benefit? Who will line their fat pockets, at the cost of our precious water reserves and pristine wilderness?
At a time when other advanced, visionary and intelligent nations preserve, relish in and glorify their wilds, here we have people in positions of power doing the opposite. How backward thinking can we must appear. Listen to our Traditional Owners, hear what they say, and heed their warning.
I ask this Department, as representative of the people, to reject, loudly and firmly, Origin's EMP.

Jac Floyd
****
VIC 3280

Flynn, Maryellen – Sunday, 14 August 2022 – 20:06:15

Subject	stop fracking
From	Maryellen Flynn
Sent	8/14/2022 8:06:15 PM

you must at all costs stop this stupid idea of hurting the first nation people by fracking the northern territory it is wrong as well as being sensless

maryellen flynn
****
NSW 2804

Flynn, Terrance – Thursday, 11 August 2022 – 15:58:13

Subject	Submission opposing Origin's Fracking plans
From	Terrance Flynn
Sent	8/11/2022 3:58:13 PM

I wish to lodge my opposition to any fracking in the Northern Territory. The reasons is the fracking will result in further green house gass, the contamination of ground water, and It's against the wishes of Traditional ownwers.

Terrance Flynn
****
NSW 2508

Foale, Mike – Saturday, 13 August 2022 – 11:14:52

Subject	fracking in the Northern Territory
From	Mike Foale
Sent	8/13/2022 11:14:52 AM

To the Department of the Environment i the NT
In response to hearing that Origin has applied for access to initiate fracking for gas in many locations in the NT.
Given the accelerating range of climate deterioration due to excess emmissions from carbon burning I ask earnestly that you block any fiurther extractin of gas in the NY. It is way past the time for carbon pollution to be reduced and nex extraction will just hasten what is likely to be a disastrous climate deterioration if restraint on gas extraction is not applied.
sincerely
Mike Foale
Maley 4552
****

Mike Foale
****
QLD 4552

Fogarty, Mary – Saturday, 13 August 2022 – 14:30:56

Subject	Stop Origin's fracking! Stop ALL fracking!
From	Mary Fogarty
Sent	8/13/2022 2:30:56 PM

Northern Territory Environment and Water Department.

European Australian have done so much damage to the Australian environment, I don't believe there should be anymore. Companys claim that fracking is fail-proof, that there is no risk of damage to surrounding countryside and water ways but, even if that were true, it is too risky.

The Great Artesian Basin I learnt about in school 60 years ago is at risk of being reduced and contaminated. WE CANNOT AFFORD FOR THAT TO HAPPEN.

PLEASE DO NOT GIVE ORIGIN APPROVAL FOR THIS FRACKING.

Yours sincerely,

Mary Fogarty
****

Mary Fogarty
****
NSW 2017

Foot, Equa – Sunday, 14 August 2022 – 15:08:17

Subject	equable@msn.com
From	Equa Foot
Sent	8/14/2022 3:08:17 PM

To the Northern Territory Department of Environment, Parks and WATER SECURITY, As an Australian citizen I find fracking in Australia unacceptable. Origin is putting our waterways at risk, in a country which is already dealing with water security risks. The precious water we have in this country is not limitless. It should not be made available to profit making companies at the expense of ordinary Australians who are at risk of being without a clean water supply. And where exactly are you thinking of dumping the waste water? NSW? QLD? SA? Sorry but that's not going to win anyone votes. The Traditional owners have already expressed their opposition to fracking. Where is your respect for the Traditional Owners of this country? Get Origin out of our land and water supply - they will not be the ones who will deal with the fallout. If the NT government wants to win the next election then look after our country and our people and our water supply. Tell Origin to leave. Thank you.

Equa Foot
****
VIC 3088

Foote, Jan – Sunday, 14 August 2022 – 05:13:00

Subject	Stop Origin's fracking in the Northern Territoory
From	Jan Foote
Sent	8/14/2022 5:13:00 AM

To the Northern Territory Dept of Environmental Managment.

My name is Jan Foote and I live in Tasmania where we are deeply concerned with the fragility of the environment. I have friends currently travelling in the NT and the beauty of their photos has deeply moved me making me want to visit a place so unique and wildly beautiful.

It is thus with great concern that I've read of Origin's plans for 12 fracking sites, despite the protests of the First Nations people whose land this is.

The environmental impacts of fracking especially in terms of water contamination are disastrous. Could I please urge you to listen to the pleas of the First zNations People and to complete all aspects of the EMP with great thoroughness, including the completion of the Scientific Baseline Study to ensure that environmental protection is the most important consideration in this process.

Thank you.

Sincerely

Jan Foote

Jan Foote
****
TAS 7212

Ford, Adam – Sunday, 14 August 2022 – 09:24:59

Subject	Please reject Origin's EMP
From	Adam Ford
Sent	8/14/2022 9:24:59 AM

To whom it may concern,

My name is Adam Ford. I live in Chewton, a small town in Central Victoria. I am writing to ask you to reject Origin Energy's Environmental Management Plan, currently under review in relation to approval of a series of fracking projects they plan to undertake on Amungee Mungee pastoral station. I am concerned about the health of the Territory and its citizens, environmental issues such as this one will have a substantial effect on all of us, regardless of where we live.

I am deeply concerned that Origin has not considered the environmental impacts of this project with appropriate seriousness. Their claims that this project will reduce emissions are false – in fact this project has been projected to create 2 million tonnes of emissions, a huge carbon footprint that will significantly add to Australia's already disproportionate carbon footprint.

Origin is also proposing to use a massive volume of precious groundwater to facilitate this project, which presents an additional threat to the NT's environment. Lastly, there are also many serious concerns about the health impacts of fracking projects, related to the contamination of both air and surface water as a result of the by-products of the process.

I am seriously concerned that approval of this kind of fossil fuel project, which will cause negative environmental and health and contribute toward the root cause of the climate crisis, risks setting a precedent that will allow companies like Origin to disregard the environment and the long-term consequences of fossil fuel mining in favour of short-term profit.

I understand that I am a long way from the Northern Territory, but the Territory is a uniquely beautiful part of the world that demands to be preserved and defended by everyone, no matter where they might live.

At a time when our energies need to be directed toward mitigating the inevitable impacts of the climate crisis by reducing fossil fuel consumption and funding alternative energy sources, it is up to all of us to do the things within our power to achieve these aims.

I urge you to use the power of the Northern Territory Government to reject Origin Energy's Environmental Management Plan and to set a precedent that makes projects like this one less likely to go ahead in the future.

Thank you for taking the time to consider this submission.
Regards,

Adam Ford
****
****

Adam Ford
****
VIC 3451

Ford, Ian – Saturday, 13 August 2022 – 13:43:33

Subject	Stop Origin's fracking plans
From	Ian Ford
Sent	8/13/2022 1:43:33 PM

For the sake of my 4 grandchildren, do not put the commercial interests of Origin energy before the future of the planet. Given what we know about climate change and it's increasingly destructive path, there should be no new fossil projects. In the words of jackson browne in his song'Before the deluge'
'some of them grew angry at the way the earth was abused by the men who turned her beauty into power, and they struggled to protect it from them only to be confused by the magnitude of her fury in the final hour'.

regards

ian ford

Ian Ford
****
NSW 2063

Forday, Susan – Sunday, 14 August 2022 – 17:21:17

Subject	No to Fracking !
From	Susan Forday
Sent	8/14/2022 5:21:17 PM

We should be preserving our country for the future. Our natural habitat and animals should be saved.

Susan Forday
****
QLD 4700

Fordyce, Jess – Friday, 12 August 2022 – 16:03:39

Subject	Please reject Origin
From	Jess Fordyce
Sent	8/12/2022 4:03:39 PM

To the Northern Territory Department of Environment, Parks and Water Security,

My name is Jessica Fordyce and I work in Waste and Resource Recovery in NSW. I'm writing this submission because I'm a young person who is deeply concerned about the state of our environment, and I'm particularly anxious that our Governments aren't doing enough to protect the future of young people. I urge you to reject Origin Energy's EMP due to the impact fracking has on our carbon budget, Indigenous communities and water quality.

I appreciate your consideration,

Jessica

Jess Fordyce
****
ACT 2614

Forpe, Matthew – Sunday, 14 August 2022 – 21:30:01

Subject	Stop origin's fracking plans. now
From	Matthew Forpe
Sent	8/14/2022 9:30:01 PM

You need to stop these fracking plans, now. These are wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Stop the fracking. now.

matthew forpe
****
NSW 2571

Forrester, Pauline – Sunday, 14 August 2022 – 14:13:02

Subject	Stop all fracking and start protecting our environment
From	Pauline Forrester
Sent	8/14/2022 2:13:02 PM

To the Northern Territory Department of Environment, Parks and Water Security.
I'm writing this submission to let you know that there are people all over Australia who care, and are asking you to reject Origin's EMP. It is not only the Traditional Owners and other locals who will be impacted adversely if the proposal goes ahead. It is Australia's future, and decisions should be made with an eye to the broader picture; not focusing on isolated locations.
The science behind fracking and its repercussions should be taken into account. The proposed wells will threaten water, cultural heritage, and our climate.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Quite simply, I'm asking you to reject Origin's proposals now and in the future.

Pauline Forrester
****
NSW 2134

Forster, Greg – Sunday, 14 August 2022 – 11:32:14

Subject	Stop Fracking in the NT, Including Origin's 12 New Wells
From	Greg Forster
Sent	8/14/2022 11:32:14 AM

To: Northern Territory Department of Environment, Parks and Water Security,

As a retired civil engineer, with 3 grown children and 3 young grand-daughters, deeply concerned about climate change, I am appalled by Origin's application to the NT Government to drill and frack a twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Fracking devastates country above ground and poisons the groundwaters below with the toxic chemicals used to extract methane gas for burning, which in turn poisons the atmosphere as do the fugitive emissions released during fracking.

Fracking for gas extraction including at these Amungee Mungee pastoral station wells must not occur to prevent the harm this mining causes.

Only by stopping the extraction and burning of fossil fuels including natural gas in the short term will we have a chance of limiting global warning to 1.5C.

At present we are on a trajectory to reach global warming far above 1.5C, in the near future, which will result in a world that I would not want my children and their children to experience.

What do you want for the world your children will inherit?

Yours faithfully in God's truth,

Greg Forster
Randwick NSW 2031

Greg Forster
****
NSW 2031

Forster, Martin – Friday, 12 August 2022 – 18:15:12

Subject	No Fracking, too costly and too unreliable
From	Martin Forster
Sent	8/12/2022 6:15:12 PM

The Northern Territory Environment Department,
fracking is too risky, stop CO2 emission before they are produced
find better solutions,

regards

martin

Martin Forster
****
NSW 2120

Foulis, Brett – Thursday, 11 August 2022 – 15:00:19

Subject	Origins plan to frack in the NT
From	Brett Foulis
Sent	8/11/2022 3:00:19 PM

To whom it may concern,
I am writing to state my opposition to Origins plans to frack in the NT. I believe this action will destroy country, water, and our climate, and would be setting a precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.
I am requesting that the NT government reject Origins plans.
Yours sincerely,
Brett Foulis
29 Roberts st
Brunswick East
Vic
3057

Brett Foulis
****
VIC 3056

Fox, Anu – Friday, 12 August 2022 – 10:04:32

Subject	Stop Origin's Fracking Plans
From	Anu Fox
Sent	8/12/2022 10:04:32 AM

To the NT Department of Environment, Parks, Water and Security

My name is Anu, I live in Narrm (Melbourne) and I am writing to you becuase I am deeply concerned about Origin's plans to open twelve new fracking drills in the NT.

If these go ahead, it will destroy Aboriginal land, water and the overall climate. Climate change is VERY real and VERY much here and the more the governments allow these damaging projects to go ahead the less chance we have at reversing the already devastating effects of climate change. We simply can't afford to do this anymore. First and foremost it is Aboriginal land that you are destroying - this has deep and ancient history and culture.

Traditional Custodians DO NOT consent to you destroying their land. This project will involve using HUGE amounts of precious water and where is the waste water going? You have the power to STOP exploiting Aboriginal people and Aboriginal land. If this were white communities, these projects wouldn't impact them as much as it impacts Aboriginal people - because white people always get to benefit at the expense of BIPOC communities. Racism is a big factor here, as is capitalism and profit before people. Things have to change - we can't keep treating the Earth, the land and the people like this. Think 7 generations ahead - there is going to be nothing to leave children, grandchildren. You can't eat or drink money or gas or coal. We have to turn to alternative energy solutions and that means saying NO to these big corporations.

I urge you to listen deeply, not only to the Traditional Custodians of the land, but also listen to the science. And think about future generations and use your power for actual good.

Please, do not approve Origin's EMP. Reject Origin, reject the continuing colonisation and destruction of Aboriginal Land and reject climate change denying conspiracy theories. This is real and it's happening now and you have the power to try to reverse the devastating effects of colonisation and climate change.

Yours sincerely,

Anu Fox

Anu Fox
****
VIC 3058

Fox, Mary – Saturday, 13 August 2022 – 18:27:14

Subject	Origin is damaging our futre
From	Mary Fox
Sent	8/13/2022 6:27:14 PM

Dear Sir
I am very concerned about the climate effects and effects on water of Origin's plans to frack in the NT.
I know we need gas, but more we need air water and soil.

Mary Fox
****
NSW 2482

Francioni, Umberto – Saturday, 13 August 2022 – 08:13:46

Subject	Stop the expansion of fracking in the NT
From	Umberto Francioni
Sent	8/13/2022 8:13:46 AM

To whom it may concern,

Australia taxpayers are sick and tired of subsidising fracking operations for the sake of corporate profits on behalf of Australian resources and the state of the environment.

Sincerely,
A disconcerted citizen

Umberto Francioni
****
NSW 2000

Francis, Ivan – Sunday, 14 August 2022 – 06:35:45

Subject	Frack this.
From	Ivan Francis
Sent	8/14/2022 6:35:45 AM

Over thousands of years, they learnt how to care for the land and in return it supported them; enabling their communities to flourish.
Then the outsiders arrived and saw the land only for what they could take from it. "Nah. Frack this."

Ivan Francis

Ivan Francis
****
VIC 3095

Francis, Jon – Sunday, 14 August 2022 – 19:36:29

Subject	Say No to Origins Fracking Plans.
From	Jon Francis
Sent	8/14/2022 7:36:29 PM

Now is not the time to open up new Gas Wells!
In fact Fracking Country should not be allowed anymore as it is not a sustainable practice, poisoning the land thru its processing.
Nobody should have to try & live on a dead planet.
Origins plans should be rejected.

Jon Francis
****
QLD 4569

Francois, Jules – Monday, 15 August 2022 – 09:55:23

Subject	stop fracking now!
From	Jules Francois
Sent	8/15/2022 9:55:23 AM

fracking is ruining our country ! and cant be fixed so dont do it !

Jules Francois
****
NSW 2130

Franklin, Anita – Saturday, 13 August 2022 – 10:45:47

Subject	Say NO to Origins' fracking plans
From	Anita Franklin
Sent	8/13/2022 10:45:47 AM

Aquifers will be poisoned if this is allowed to go ahead, listen to your Elders in the NT.
No fracking allowed Please!!!!

Anita Franklin
****
WA 6280

Frazer, Lindy – Sunday, 14 August 2022 – 15:16:39

Subject	Reject Origin's fracking plans
From	Lindy Frazer
Sent	8/14/2022 3:16:39 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I am an Australian citizen residing in NSW and wish to urge your Department to reject Origin's request to open 12 new "exploratory" fracking drills in the Northern Territory. Origin has a track record of transitioning exploratory gas wells to production wells and bypassing due process in the assessment of environmental impacts.

Gas fracking is a dangerous experimental industry which pollutes air, water and land. Our air, water and land are too precious to be handed over to greedy and unethical fossil fuel corporations to pollute and destroy.

Traditional custodians of the Northern Territory strongly oppose fracking because it will harm country, and culture along with it.

New fossil fuel projects, including filthy fracking, have no place in the cleaner future which must be embraced if we are to avoid dangerous climate change. Neither do they align with Australia's commitments under The Paris Agreement.

The Northern Territory Department of Environment, Parks and Water Security must keep air, water, country and culture safe from Origin and all companies wishing to exploit it without regard for environmental impacts. Our future wellbeing is not theirs to take.

Lindy Frazer
****
NSW 2250

Frazer, Murray – Friday, 12 August 2022 – 17:53:22

Subject	Stop Origin's fracking plans
From	Murray Frazer
Sent	8/12/2022 5:53:22 PM

Department Environment, Parks and Water Security, Darwin

I am very troubled by reports that Origin Energy's plans for fracking in parts of the NT may be approved within the next few days. Fracking is a highly polluting process that has repeatedly destroyed farmlands and polluted water supplies in many parts of the world.

It is not appropriate in the NT, particularly in the face os staunch opposition from the traditional owners of the land.

Opening any new gas fields now is problematic, given the need to reduce our emissions by at least 43% by 2030, and fracking is certainly not the way forward.

I urge you to prohibit Origin or anyone else from starting frcking in the NT.

Dr Murray Frazer

Murray Frazer
****
VIC 3122

Frecheville, Julia – Saturday, 13 August 2022 – 17:32:53

Subject	Stop Origin's fracking plans
From	Julia Frecheville
Sent	8/13/2022 5:32:53 PM

Dear NT Government
Although I do not live in the Northern Territory, but in Victoria, I do live in the same country and on the same planet as yourselves, and those to whom you are directly responsible to - your voters/constituents/people of the NT.
I hear that you are considering allowing Origin Energy to frack 12 new wells in the NT. I would beg you to reconsider. Our planet is even now at a catastrophic tipping point as a result of decisions made for the wrong reasons - decisions that place profit and short term gains over the life of humanity and all that lives on this beautiful planet that we have the honour of living on.
I say profit and short term gains, but actually I don't know why people, such as yourselves, would think that fracking is in any way at all a good thing to do. It will release copious amounts of Scope 1 emissions, use water that is so precious in this dry continent of ours, create toxic wastewater and destroy the beauty of our land.
There are more 'serious' and scientific reasons - Origin have not assessed all the environmental aspects, they have not implemented the 135 recommendations from the Pepper Inquiry, they do not have a plan for the millions of litres of wastewater that will be generated, but my plea is more fundamental. Please consider the impact of your decision in light of our continued existence on this planet, this extraordinary planet on which we, and our children and grandchildren, are living.
Thank you, Julia Frecheville

Julia Frecheville
****
VIC 3018

Freeman, David – Sunday, 14 August 2022 – 10:01:50

Subject	Frack Off!
From	David Freeman
Sent	8/14/2022 10:01:50 AM

More fracking is not the solution to the current gas/energy supply/cost crisis in Australia.
Australia is one largest exporters of Liquid Natural Gas (LNG) in the world, exporting mostly to India and China.
Yes, there is a need to transition away from fossil fuels but gas is part of that transition program and Australia needs LNG now.
But, we do not want or need more destruction and pollution of the land and air when there is more than enough LNG to supply, many times over, the demand needs of Australia.
For the 2020 Conference, in the year 2000, I proposed that we should build a gas pipeline from the North West Shelf, where the majority of the LNG is, down to Perth, across to Adelaide, to Melbourne and up to Sydney. If that had been started then none of these current problems would exist. Part of that proposal was to rebrand AMPOL petrol stations to be petrol to gas, car conversion and supply stations across the country. That wasted moment has passed us by.
Trickle Down Economics does work but not if the trickle is just a stagnate, polluted drop.
It partially works because those directly employed have food to eat.
It partially works because the self employed add value to the materials they purchase, putting a roof over their heads.
It even partially works for the underprivileged because the trickle that flows into The State allows them to provide the necessary basic services.
It does not work when multi-nationals are allowed to export our gas to India and China when we are having a cost and supply crisis soaking up the drops here whilst rivers of profits are flowing to a few.
But... Bob Brown once pointed out that it is not the rich, not the banks, not the corporations, not the multi-nations who are to blame for the problems but rather it is The State and thus indirectly us who are the cause and the solutions.
The solution to ALL the problems, gas supply, Climate Change, corruption, cost of living, homelessness, education, infrastructure, services etc, etc is to progressively upgrade the plumbing, to plan and implement the upgrades so that the trickle becomes a balanced and reasonable flow to the people. That is the job of The State.
Thus, the solution to gas supply problem is not more fracking full stop,but rather market controls applied to the existing supply/distribution mechanisms...
• export caps (as already in place in Western Australia) to protect local supply
• disconnect the local price from the global market price
• excess profit tax on the producers/suppliers to offset the local market price
• LNG gas supply reserve hubs/buffers available in each state

David Freeman
****
VIC 3123

Frood, Ella – Friday, 12 August 2022 – 15:40:51

Subject	Please don't allow fracking
From	Ella Frood
Sent	8/12/2022 3:40:51 PM

Dear Ministers, my name is Ella and I'm writing to you in the hope that you will not allow the destruction of the beautiful natural resources of the Northern Territory. Fracking has been known to cause terrible environmental impacts, like in Dimock, Pennsylvania, America where the government has to supply water as fracking destroyed wells. Supplying water is expensive as your government already is aware. In addition fracking uses immense amounts of water, in the driest continent on earth this does not strike me as in our interests. Also these projects do not produce much revenue for government, only for stake holders. Please do consider that this will impact great territory initiatives that do provide revenue and employment to many more, such as tourism and agriculture.
Thankyou very much for your time reading this and I hope that you'll help, best wishes from Ella and the twins.

Ella Frood
****
VIC 3350

Frood, Ian – Friday, 12 August 2022 – 15:48:20

Subject	No new fracking.
From	Ian Frood
Sent	8/12/2022 3:48:20 PM

There is no nice way to put this, but I'll try.
There are too many gas wells already . Fracking is surely a last minute effort to feed the needs of a over energy hungry world. An over profit seeking, greedy ,exploitation of our country. The north and central Australia are mostly dry arid country. We have many large cattle stations in these areas.further down there is large sheep stations. All these food producers relying on underground water . Fracking has already caused pollution in the underground water table. Nobody knows how long,if at all , it will take to come right again. So, you have to ask, what is most important. A temporary energy supply to cook with,or food. Remembering that Our Australia could be ruined for many years to come.
Stop the fracking.

Ian Frood
****
TAS 7255

Frost, Kate – Sunday, 14 August 2022 – 15:35:02

Subject	stop Origin's reckless fracking plans
From	Kate Frost
Sent	8/14/2022 3:35:02 PM

To whom it may concern,

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please stop Origin's reckless fracking plans

Thanks for your time, Kate

Kate Frost
****
VIC 3163

Frost, Norah – Sunday, 14 August 2022 – 14:28:01

Subject	Stop Origin's Fracking Plans
From	Norah Frost
Sent	8/14/2022 2:28:01 PM

Having viewed the Gasland videos, I am horrified to learn that fracking is still being considered as an appropriate way to answer a nation's need for energy. To run the risk of a repeat of the environmental devastation that has gone on in the USA is utter madness. We ought to be protecting this wonderful country, not desecrating it. Water is too precious a resource to be wasted in fracking wells.
Please reject Origin's plans, Gas is not the answer, and fracking is certainly not a sensible way to care for our planet.

Norah Frost
****
SA 5042

Fruin, Pamela – Sunday, 14 August 2022 – 17:07:26

Subject	Please Stop Origin Energy's Fracking in NT
From	Pamela Fruin
Sent	8/14/2022 5:07:26 PM

Attention: Northern Territory's Department of Environment, Parks and Water Security.

As a women with a strong commitment to our First Nation Peoples and the environment, I appeal to you as Minister to reject the application of Origin Energy's Environment Management Plan on the basis Origin will destroy country, water, add significantly to the climate crisis and further open the door for others to explore and frack in the NT.

How can Australia meet our climate targets commitment with permission to drill 12 new 'exploration' wells on the Amungee Mungee pastoral station only 50 km east of Daly Waters?

It is well known that approval for 'exploration' will lead to the granting of production licenses.

Further, the carbon footprint from this so called 'exploration' will result in a over 2 million tonnes of GHG emissions as these wells will remain open for over five times longer than they actually need for testing.

The amount of water Origin needs is a massive 430 million litres to drill and frack these twelve wells. This will produce 90 million litres of wastewater which they are planning to truck interstate.

The Traditional Owners gave evidence to The Pepper Scientific Inquiry into Hydraulic Fracturing in 2018. The Inquiry made 135 recommendations to ensure that environmental, social, cultural and economic risks would be appropriately managed. These risks have not been addressed as evidenced by exploration and appraisal manager, Alexander Côté, as he stated there is no plan to manage toxic wastewater.

This behaviour by Origin Energy is unconscionable and must be stopped.

As Minister, I appeal to you to respect the recommendations of The Pepper Inquiry with regards to the Origin Energy's applications; to honour our Traditional Owners' cultural heritage; give Australia a chance to seriously address the climate crisis we now face by reducing our emissions; and save the planet for our future generations.

Yours sincerely

Pamela Fruin
Perth, WA.

Pamela Fruin
****
WA 6000

Fry, Christine – Saturday, 13 August 2022 – 21:37:56

Subject	Stop Origin's Fracking plans
From	Christine Fry
Sent	8/13/2022 9:37:56 PM

As an educator I am concerned at reports Origin Energy have plans to open fracking drills which threaten water, cultural heritage and our climate.
The NT Government needs to reject the plans of Origin Energy to open new fracking drills in the Northern Territory. It is important that the views of the Traditional Owners of the land is respected and would also set a precedent for other companies and corporations to do the same. It is imperative that NT Government dismiss these plans by Origin.
Regards
Christine Fry
BA Dip Ed

Christine Fry
****
NSW 2260

Frye, Dean – Friday, 12 August 2022 – 14:30:09

Subject	No more fracking
From	Dean Frye
Sent	8/12/2022 2:30:09 PM

I am a country person, not a city dweller that just rails against any mining, but fracking is a crazy point in time resource consumption that damages land forevermore.

It is madness, and the employment and economic benefits are neither large, nor permanent.

Leave this idea, and the gas, in the ground.

Dean Frye

Dean Frye
****
NSW 2067

Furgan, Jemil – Saturday, 13 August 2022 – 13:34:57

Subject	Reject Fracking
From	Jemil Furgan
Sent	8/13/2022 1:34:57 PM

Addressed to whom it may concern at the Department of Environment, Parks and Watrer Security,

I'm a young man who wants a secure future for Australia, but fracking will not help us. History has shown us that fracking has very damaging consequences for society and the environment. It's also shown the willingness to damage and/or destroy historical aboriginal sites for the sake of profit without proper consequences.

We cannot allow these mining and fracking companies to cause more damage than they already have.

For the sake of this country's environment, people and dignity, please, deny Origin's Environmental Management Plan.

Regards
A concerned Australian
Jemil

Jemil Furgan
****
QLD 4151

Furphy, David – Thursday, 11 August 2022 – 17:00:22

Subject	Stop Origin's Fracking Plans!
From	David Furphy
Sent	8/11/2022 5:00:22 PM

The world can not afford any new gas, or any other fossil fuel operations to commence production. The damage done to the environment is already very clear, increased temperatures, fires and floods, not just in Australia, but around the world. We are heading for catastrophe, and must reduce emissions urgently.

David Furphy
****
VIC 3960

Fyfe, Fiona – Thursday, 11 August 2022 – 14:39:11

Subject	Stop Fracking Plans by Origin
From	Fiona Fyfe
Sent	8/11/2022 2:39:11 PM

To the Northern Territory Department of Environment, Parks and Water

I am writing this submission to express my deep concern regarding Origin's plans for 12 new fracking drills in the Northern Territory.

While I'm a resident of NSW this plan concerns me greatly. I believe the natural gas produced via fracking is responsible for approximately 19% of Australia's greenhouse gas emissions. This is a very scary statisic given we're the world's biggest contributors to greenhouse gas emissions.

Surely we shouldn't be encouraging fracking, aren't we supposed to be reducing our greenhouse gas emissions?

Given the devastating environmental impact of fracking, along with objections from environmental groups and Traditional owners I am asking the Department to please reject Origin's EMP.

Yours sincerely
Fiona Fyfe

Fiona Fyfe
****
NSW 2575

G, Bob – Friday, 12 August 2022 – 14:31:48

Subject	Stop Origin's fracking plans
From	Bob G
Sent	8/12/2022 2:31:48 PM

Fracking is dangerous to health - witness Pennsylvania's experience where fracking went ahead and as a result the health of the population resident near such wells, in such regions, has been severely harmed - we know that fracking is dangerous to human and livestock and environmental health. Act like that.

bob g
****
QLD 4556

G, J – Sunday, 14 August 2022 – 15:23:17

Subject	please stop origins fracking agenda !
From	J G
Sent	8/14/2022 3:23:17 PM

ATTENTION

NT Dept Lands planning and the environment

Please stop these huge conglomerates from destroying landscapes and waterways with gas taking.

Didn't we all see what is happening to the waterways throughout the USA and the uninhabitable mess fracking has caused here and in Northern America? Why do we have to spell it out over and over we must learn from other countries mistakes?

Thankyou

J G
****
VIC 3000

Gallagher, Chris – Thursday, 11 August 2022 – 19:01:12

Subject	NT fracking
From	Chris Gallagher
Sent	8/11/2022 7:01:12 PM

The undertaking of fracking operations in the NT directly threatens its unique environment and cultural heritage. Furthermore, damage to its water systems and the negative effect on the climate make fracking in the NT unacceptable.
No fracking operations, including Origin's latest proposal, should be approved.

chris gallagher
****
QLD 4306

Gallant, Esther – Sunday, 14 August 2022 – 15:13:28

Subject	Stop destruction of Country.
From	Esther Gallant
Sent	8/14/2022 3:13:28 PM

I implore the NT Government to reject the proposed fracking by Origin Energy on the Amungee Mungee pastoral station near Daly Waters.

The remote regions of the NT are magic! Everyone, not just the traditional owners should want these lands preserved. I have personally seen the beautiful rock paintings in the Kimberley and the millennia old rock pecking and carving on the Burrup Peninsula. Similar cultural wonders are spread throughout the NT and attest to the unimaginably long occupation of these lands by the First Australians.

With no exceptions, fracking and other extractive processes should not be allowed on Aboriginal lands unless approved by the traditional custodians.

Fracking is one more source of carbon release from fossil fuels. No additional projects resulting in fossil carbon release should be approved no matter where the carbon will actually be released. The mining process in and of itself will result in tremendous local irreparable damage to landscape, habitat, ground water and potentially sacred sites (as was regrettably demonstrated at Junken Gorge).

So please do not approve this fracking! It would be destroying the past while also contributing to the future disastrous effects of global warming.

Esther M. Gallant PhD
Cook, ACT

Esther Gallant
****
ACT 2614

Galvin, Lorraine – Monday, 15 August 2022 – 10:50:34

Subject	Stop Origin's plans for opening new fracking drills
From	Lorraine Galvin
Sent	8/15/2022 10:50:34 AM

No more fracking that will destroy water & country, as well as add to climatic changes.

Lorraine Galvin
****
SA 5098

Ganley, Kevin – Saturday, 13 August 2022 – 14:31:55

Subject	Stop Origins fracking plans.
From	Kevin Ganley
Sent	8/13/2022 2:31:55 PM

What the hell is going on? No more more licenses for fossil fuel. Origin should be legislated against. Who the hell do their shareholders think they are, greedy ******** !!!!.

Kevin Ganley
****
WA 6008

Garcia, Angel – Sunday, 14 August 2022 – 17:49:41

Subject	Angelo.g.hernandez@Gmail.com
From	Angel Garcia
Sent	8/14/2022 5:49:41 PM

The greed of the corporations their disdain for the environment and people is utterly disgusting and politicians are corrupted, people have the God giving right United and fight.

Angel Garcia
****

Gardiner, Bridget – Sunday, 14 August 2022 – 12:27:38

Subject	Origin Energy Amungee NW Delineation Program
From	Bridget Gardiner
Sent	8/14/2022 12:27:38 PM

Dear Hon Environment Minister Lauren Moss
My name is Bridget Gardiner, I live in Aldinga Beach South Australia. I have family and friends who live in and around the Katherine and Douglas Daly town areas. I am a regular visitor to these regions and I have become very familiar with local environmental concerns in these regions and across the Northern Territory.
I am writing to raise my concerns with Origin Energy's Amungee NW Deliniation Program EMP.
I have examined the EMP that relates to the application to drill and frack 12 new exploration gas wells on the Amungee and Shenandoah East pastoral ststions 50 kms east of Daly Waters.
This planned project is huge and will release 535,651 tonnes of greenhouse gas emissions over a 3 year period and pose an unacceptable risk to water security.
Most alarming is that despite holding only an exploration permit , Origin is proposing to pipe and sell the gas they find to the MacArthur mine for 2 years!!!!!!! Origin knows this is not permitted under NT law but they are trying very hard to see and test your NT Government how far and for how long they can bend and break the rules!!!! Shame to think Minister that they assume you are all so easily won over. I implore you not to allow this planned project.
If this proposal is allowed to go ahead it will permit an unprecedented level of fracking activity in the NT. Over the past 4 years I have witnessed how passionately fracking is opposed by Northern Territorians in these regions . I am informed that the Pepper inquiry recommendations should be well in place before any further consideration be given to a proposal of this scale.
The proposal does not adequately consider the risk to threaten species, the 60 km of land clearing for seismic lines and an additional 111hectares of land clearing in an area where many threatened species of birds live.
Newly discovered endemic stygofauna are also present in the project area, the EMP does not include any measures to monitor for or protect these underground species.
Origin Energy want to drill and frack throughout the year, with the first 2 wells scheduled for the wet season 2022/2023. Locals with good knowledge of the flooding in wet season are very concerned about the very real potential for water contamination especially waste water overflow and contamination.
The impact of the proposal on water use and waste management in this 21st century with all the knowledge we have about the vital importance to protect our precious natural water supplies is eye-watering!!!!
430million litres of water for drilling and fracking the 12 wells. They also plan to truck 90 million waters of waste water interstate.
I call on you as the NT Minister for the Environment to please stop Origin Energy from going ahead with this project please reject it in all its forms by refusing the EMP. This proposal is not appropriate.
Please Minister do your due diligence consider very seriously the future of our environment and the ongoing catastrophic outcomes that are now scientifically recognised that will occur if public office holders like yourself and your Government do not start standing up for the environment and the future health of our water supplies and water ways, our whole ecosystem's , by refusing proposals like this Origin Energy Amungee Delineation Program.
Minister I call on you to please refuse the entire EMP for this proposal.
Thank you and yours faithfully

Bridget Gardiner

Gardiner, Gene – Saturday, 13 August 2022 – 14:15:04

Subject	Stop fracking.
From	Gene Gardiner
Sent	8/13/2022 2:15:04 PM

Northern Territory Department of Environment and Water Security.
Please stop fracking.

gene gardiner
****
VIC 3250

Gardner, Robin – Saturday, 13 August 2022 – 21:30:26

Subject	Stop Origin's reckless exploratory fracking proposal
From	Robin Gardner
Sent	8/13/2022 9:30:26 PM

I am a regular visitor to the NT and have assisted several communities over an extended [eriod.
I, as are the majority in the communities, gravely concerned about Origin's plans (and other companies) to frack for gas on the Amungee Mungee station.
There is a risk of a disasterous impact on their water supply and quality. Furthermore the requirement of these operations is for a massive amount of water from what are already fairly scarce long-term supplies. They appear to have no long term plan on how to prevent any water pollution and it is known from previous operations that this can be a substantial problem.
If Permission is granted to do exploratory fracking then it is an invitation to destroy the Traditional Owners country and water without permission and to further harm the climate for all life.
Please ensure that you commit to rejecting the EMP submitted by Origin.

Robin Gardner
****
VIC 3222

Gardner, Rossley – Sunday, 14 August 2022 – 15:18:28

Subject	Stop Origin's Fracking
From	Rossley Gardner
Sent	8/14/2022 3:18:28 PM

Please stop Origin's plans for new fracking wells.
The climate cannot stand any more use of gas. Neither can local farmers lose water and land. We need farming land for food and we need water. We cannot risk ruining aquifers. More important is the culture and history of Indigenous peoples and this must not be ruined.

Thank you.

Yours sincerely Heather Gardner

Heather Gardner OAM

Rossley Gardner
****
VIC 3097

Garretty, Shirley – Sunday, 14 August 2022 – 15:56:22

Subject	Stop fracking from ruining our beautiful country
From	Shirley Garretty
Sent	8/14/2022 3:56:22 PM

It is time to take care of Australia & the planet earth! NO MORE FRACKING IN AUSTRALIA!

shirley garretty
****
QLD 4305

Garthon, Wendy – Sunday, 14 August 2022 – 15:41:40

Subject	Origin Fracking Must Not Happen
From	Wendy Garthon
Sent	8/14/2022 3:41:40 PM

Time is up. Australia and the world cannot afford to allow new fracking proposals to proceed. We need to be on the right side of HISTORY not of a company balance sheet!

Wendy Garthon
Cardiff NSW

Wendy Garthon
****
NSW 2285

Gartland, Geraldine – Sunday, 14 August 2022 – 18:37:51

Subject	Origin No More GAS. More Renewables
From	Geraldine Gartland
Sent	8/14/2022 6:37:51 PM

Dear Origin PLEASE, listen to the science. Put your money into rewiring Australia for renewble energy. This is the future and your future profits.
We already have enough gas, we do NOT need new gas fields.
Think of your children and grand children. Thank you

Geraldine Gartland
****
VIC 3243

Gastin, Annie – Thursday, 11 August 2022 – 14:23:40

Subject	Stop Origin fracking
From	Annie Gastin
Sent	8/11/2022 2:23:40 PM

Please dont go ahead with fracking in the NT. The economic advantages, like all other mining operations are shortlived. Mining companies are not to be trusted. Just look at how they avoid evade the environmental agreements and obligations. McCarthur River just one example. The Traditional owners of the land dont want it. Environmentalists dont want it. Who will gain? The outrageously affluent mining companies. Tax avoiders.
Dont play their game.

Annie gastin
****
NT 0820

Gauci, Johno – Sunday, 14 August 2022 – 09:05:18

Subject	johnodownsouth@bigpond.com
From	Johno Gauci
Sent	8/14/2022 9:05:18 AM

Fracking affects the water bason

Johno Gauci
****
SA 5161

Gaylard, Michael – Sunday, 14 August 2022 – 12:55:45

Subject	Delay Origin's plans to commence fracking until both state and Commonwealth approvals have been made.
From	Michael Gaylard
Sent	8/14/2022 12:55:45 PM

I support the Traditional Owners objections to fracking.
The risks of damage which is not able to be repaired are too great and Australia already has enough gas if exports were reduced.

If damage is caused by Origin's fracking, what repair would Origin be obliged to undertake to return the country to its pre fracking position, and have they guaranteed to fund all the repairs? This they must agree to prior to commencing fracking operations.

Michael Gaylard

Michael Gaylard
****
VIC 3146

Geagea, Carlos – Monday, 15 August 2022 – 23:43:31

Subject	Origin Fracking
From	Carlos Geagea
Sent	8/15/2022 11:43:31 PM

Northern Territory Dept of the Environment

Dear Sir/Madam

In a world intent on self destruction by one means or another, we have corporations eager to profiteer off contributing to an accelerated decline. This is not development. It is environmental vandalism and a guarantee of future chaos. Any claims that a company wishes to help the population are falacies. Origin is a corporation. It has no innate generosity. It seeks profit and nothing else.

No corporation will offer to fix the future mess they create. This would be effectively impossible.

Yours sincerely

Carlos Geagea

Carlos Geagea
****
WA 6054

Geard, Lee – Thursday, 11 August 2022 – 12:29:55

Subject	No Fracking Please
From	Lee Geard
Sent	8/11/2022 12:29:55 PM

Hello,
Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.
Regards,
Lee Geard

Lee Geard
****
QLD 4510

Gee, Jennifer – Sunday, 14 August 2022 – 07:38:01

Subject	Labor Its Time To Show Respect
From	Jennifer Gee
Sent	8/14/2022 7:38:01 AM

The Northern Territory is a place rich in culture, one of the richest places on earth. Money does not buy culture. You are a Labor government you are our hope for progressive sensitive government, our only hope. Please set and example give the appropriate elders a say and please include non English speakers in that group so all elders have a say who are part of the proposed fracking areas. You can do so much better than this. As someone who has had the privilege to live and work in the Territory I am saddened and alarmed at your indifference to your lands.
Please so no to Origin, fracking and yes to appropriate and real deference to the elders.
Sincerely
Jenny Gee
3 Archdale Road
Patersonia 7259

Jennifer Gee
****
TAS 7259

Gee, Philip – Saturday, 13 August 2022 – 14:36:26

Subject	STOP ORIGINS FRACKING PLANS
From	Philip Gee
Sent	8/13/2022 2:36:26 PM

you need to stop all fracking, fracking damages the ground water by letting seepage weep through fine cracks caused by fracking, all in all, its just greed, at the expense of all but them who deliberately cause damage for profit, wake up all, your truly Philip Gee 3277 aus, ps what do we do when all ground water is polluted by gas seeping in through the fraters

philip gee
****
VIC 3277

Gegg, Catherine – Sunday, 14 August 2022 – 07:12:59

Subject	Please protect the NT from fracking
From	Catherine Gegg
Sent	8/14/2022 7:12:59 AM

Please ensure there is no fracking:
- To protect the interests of the Northern Territory First Nations people and their cultural heritage.
- To protect the water.
- To protect the ecosystems.
- To protect against accelerating climate problems further.

Thank you.

Catherine Gegg
****
QLD 4810

Gegg, Sue – Sunday, 14 August 2022 – 13:12:58

Subject	Stop Origin Plans for new Fracking Drills in the Northern Territory
From	Sue Gegg
Sent	8/14/2022 1:12:58 PM

Northern Territory Dept. of Environment, Parks and Water Security,

I am making this Submission to you asking you not approve Origin's 12 new fracking drills. Please listen to the Traditional Owners of this land, not Origin and their shareholders.

1. The traditional Owners have strongly defended their country against this company for years. Why do you not listen.

2. Please consider the un-repairable damage to the underground water this fracking will do.

3. This leads to unsustainable water supplies to the Aboriginal Communities in this land being fracked.

4.These Aboriginal Communities have a strong Cultural Heritage in this country and the people of Australia at large expect their ownership and cultural beliefs and cultural sites to be protected and respected.

5. Climate Change is the biggest problem for Australia and globally. This problem has to be considered by you and not by the Origin Company and the dollars.

Thanking you and hope you will be very serious and considerate about your decisions.

Mrs. Sue Gegg,
58 Halstead St., Gulliver, Townsville. Qld.

sue gegg
****
QLD 4812

Gehling, Asta – Friday, 12 August 2022 – 20:22:40

Subject	Stop Origin's Fracking Plans
From	Asta Gehling
Sent	8/12/2022 8:22:40 PM

To the members of the Northern Territory Parliament:

As a mother and a teacher, the state of the environment and the climate crisis are my greatest worries.

We know that any more fracking or mining of fossil fuels will only worsen the impact of Climate Change for us all. With this knowledge, there is no way for any government to approve expansions of these operations with a clear conscience.

Notwithstanding the issues of Climate Change, these fracking operations are set to take place on land of Traditional Owners. The degradation of the lands of Aboriginal Australians is abhorrent. We should all be doing what we can to help repair their land and not destroy more.

Please consider these proposals from a moral and ethical position and act to keep the environment and people safe. Please stop Origin's fracking plans.

Yours sincerely,

Asta Gehling

Asta Gehling
****
SA 5155

Gemmell-Smith, Philippa – Sunday, 14 August 2022 – 14:26:53

Subject	Heed Traditional Owners on Gas Fracking
From	Philippa Gemmell-Smith
Sent	8/14/2022 2:26:53 PM

For me there are two important reasons not to allow Origin to frack more wells in the Northern Territory
1) Traditional owners have been ignored and abused for much of our joint history that it is shameful. Mining should only go ahead with their permission
2) Back up for solar and wind should be renewable as much as possible. Pumped hydro using solar power and old mine sites is a good example, as in the Kidston mine in Queensland.
I have been affected by the July floods near Oberon where I never thought flooding could be a problem. We are all responsible for mitigating climate change

Philippa gemmell-smith
****
NSW 2787

Georges, Arabella – Sunday, 14 August 2022 – 15:52:24

Subject	Please stop Origins fracking plans
From	Arabella Georges
Sent	8/14/2022 3:52:24 PM

Northern Territory Government
Fracking has been shown to lower the water tables and degrade water supplies in the USA why on earth would we let these enormous corporations come here and do it to our wonderful country. Especially given they don't bother to pay any taxes either. We are selling out our future generations and for what? A corporate job?

Arabella Georges
****
VIC 3122

Gerrard, Dechen – Thursday, 11 August 2022 – 22:28:24

Subject	Please halt Origin's fracking plans now
From	Dechen Gerrard
Sent	8/11/2022 10:28:24 PM

To the Northern Territory Department of Environment, Parks and Water Security

Now in 2022 it's time to urgently address the health of the planet in relation to the survival of the planet itself and all those dwelling on it. The current climate catastrophes happening all over the world need to be acted upon now. Not later. Fracking in the N.T. would be disastrous for the fragile landscape, the limited water supply and First Nations people who rely on that water supply for their very existence. We need now to move beyond gas to renewable sources of power. The science is there. I can't imagine why this devastating fracking plan has been allowed to proceed this far, but now surely wisdom and logic must prevail and this plan must be scrapped. First Nations custodians of that land have said No loudly and clearly many times over many many years. Please listen to them now. Please make the decision to stop the lasting devastation Origin is planning for the Northern Territory merely for short term profit. There's no sense in that.
Thank you for listening.

Dechen Gerrard
****
VIC 3216

Gersch, Sue – Thursday, 11 August 2022 – 17:36:35

Subject	Northern Territory fracking
From	Sue Gersch
Sent	8/11/2022 5:36:35 PM

I am appalled! Fracking is a horrifying process which risks Australia's precious underground water supply on which the country depends. Without water humanity cannot survive. The gas industry is currently on the nose for its price gouging, unprincipled sale of gas overseas to the detriment of Australian customers and destruction of country. Australia is just beginning to redeem its international reputation and N.T. is proposing to undermine the fragile balance, to say nothing of the destruction of indigenous country and sacred sites.
Government is for the benefit of all citizens, including native people. N.T. Government is not listening to its prime citizens and the majority of the Australian population.
Stop, and carefully consider the consequences.

Sue Gersch
****
QLD 4680

Ghadimi, Pouya – Friday, 12 August 2022 – 17:00:14

Subject	pouya.ghadimi@gmail.com
From	Pouya Ghadimi
Sent	8/12/2022 5:00:14 PM

Hi, My name is Pouya I work on reducing environmental impact of human activity by optimising buildings operations.
We know how hard is to manage human activities and its direct and indirect impacts on our environment.
I highly would question Origin's activities and plans in NT in fracking our valuable land and sticking to traditional technologies and business models to earn more revenues.
I am asking the Department to reject Origin's EMP. And create a path and make a bold movement in redirecting such activities to be replaced with environment friendly approaches.

pouya ghadimi
****
NSW 2015

Gibbs, Anna – Friday, 12 August 2022 – 14:06:22

Subject	A BIG NO TO ORIGIN FRACKING!
From	Anna Gibbs
Sent	8/12/2022 2:06:22 PM

To the NT DEPT OF ENVIRONMENT PARKS AND WATER SECURITY:

Do Not allow Origin to frack in the NT. Do not ignore Traditional Owners who don't want Origin fracking because it will destroy not only their cultural heritage, but also the environment, and all hope of water security in the NT (it will use vast amounts of water and likely contaminate all remaining water sources, so Aboriginal people would be dispossessed of drinking water).

Origin's proposal would allow them to sell - and to bypass all the government approvals they would normally need to do this. How can you possibly allow that?

This would mean Australia could never meet even the least ambitious climate targets and would make us an international pariah country. Rightly so. We would be climate criminals.

You can't rely on Origin's estimates of emissions involved, you can't rely on their estimates of water usage, and you can't rely on them to remediate afterwards - even if this were possible, which it probably isn't.

Don't destroy the NT. There is nowhere else like it in the world. Look after it for the future. Say NO to Origin.

Sincerely
Professor Anna Gibbs

Anna Gibbs
****
NSW 2026

Gibson, Pat – Saturday, 13 August 2022 – 14:55:04

Subject	Stop Origins destructive fracking plans
From	Pat Gibson
Sent	8/13/2022 2:55:04 PM

To the Northern Territory Department of Environment, Parks and Water Security.
I am hopeful as the NT Government body for these important elements you will stop Origin's destructive fracking plans on the precious country belonging to the Traditional Owners?
I am horrified by Origin's insensitive and appalling disregard for First Nations people and Country continues unabated.
In light of the impact of the destruction of Country, Water and our climate I urge you to listen to the Traditional Owners and not grant permission for Origin's plans for fracking.

Pat Gibson
****
VIC 3810

Gibson, Steve – Friday, 12 August 2022 – 21:03:32

Subject	Stop Origins plans to frack in the Northern Territory
From	Steve Gibson
Sent	8/12/2022 9:03:32 PM

My name is Steve Gibson. I would like to back Traditional Owners by asking The Northern Territory Government not allow Origin who are planning to open twelve new fracking drills to go ahead.
Not only does this type of exploration destroy country and cultural heritage but it contaminates ground water and adds to the destruction of our already fragile environment. The land not to disturbed is of up most importance to the cultural heritage of indigenous Australians. Its not to be raped and destroyed by anyone for short term financial or any other gain. I therefore demand that the NT government not approve Origins plans to open twelve new fracking drills.

Steve Gibson
****
VIC 3939

Giddings, Caroline – Friday, 12 August 2022 – 15:13:48

Subject	Do not allow Origin's plans to frack
From	Caroline Giddings
Sent	8/12/2022 3:13:48 PM

To the NT Department of Environment, Parks and Water Security

I am a concerned citizen asking the Department to carefully consider Origin's proposal to frack in the Northern Territory. I strongly urge you to make your decisions with climate change and water sustainability foremost in your mind.

The fragility of the World's climate and biodiversity is directly due to greenhouse gas emission-induced global warming.

Australia has an important and urgent role in the World to reduce greenhouse gas emissions. Producing more gas, whether used locally or sold overseas will only add to global warming.

Please, please also consider the very real possibility of the pollution of precious groundwater and the reduction in biodiversity that will result from drilling activity in one of Australia's fragile ecosystems.

Water is a scarce but essential resource that should never be risked. Fracking has already polluted groundwater in Australia. Will you be responsible for that risk in the Northern Territory?

I respectfully urge you to deny permission for Origin's fracking plans

Yours sincerely
Caroline Giddings

Caroline Giddings
****
ACT 2612

Gilbert, Dave – Thursday, 11 August 2022 – 16:25:35

Subject	Stupidity
From	Dave Gilbert
Sent	8/11/2022 4:25:35 PM

Don't fu##know our land&country for others profit. It's time so called poles remember they work for us.im 70 and in.my day they were called Plubic servants. Lest we forget.

Dave Gilbert
****
NT 0812

Gilbert, Lesley – Friday, 12 August 2022 – 15:45:15

Subject	Stop Origin Fracking
From	Lesley Gilbert
Sent	8/12/2022 3:45:15 PM

Please see sense and show commitment to our country and its continuation as is .?
It is beautiful, rich in resource And greatly loved by all !!!
The evidence to save our environment being critical it available from past projects of this type.
Please remain loyal to our county and it's peoples
We are better than this !!!
Lesley

Lesley Gilbert
****
VIC 3085

Giles, Dave – Saturday, 13 August 2022 – 09:28:28

Subject	Fracking operations
From	Dave Giles
Sent	8/13/2022 9:28:28 AM

Northern Territory Department of Environment, Land and Water.

Dear Team,

I started my career as a civil engineer and then as a commercial pilot. I have worked as a pilot for cattle companies in many remote areas. I've seen how important artesian water is in remote areas. Even my first year university geology tells me how disastrous fracking is to the geological strata that has enabled artesian water in the remote areas of the NT. To draw an analogy it's like using a sledge hammer to put in delicate tacks on a restored piece of wooden furniture. Pretty much guaranteed to destroy the piece of furniture. Or having a bulldozer landscape your front yard. It's just the wrong way to treat the delicate geological strata that provides life giving water. Not to mention the poisonous chemicals that get pumped into the rock layers to free up the gas. Those chemicals stay there and permanently poison the water table. It's wrong to trash strata that gives such life giving water.

You must stop thinking fracking is an easy fix to allow gas supply. It permanently destroys rock strata and underground water supply. This is exceedingly short term thinking for monetary gain of just the gas companies.

Please don't let this happen.

Kindest Regards

David Giles

Dave Giles
****
NSW 2020

Giles, Marian – Sunday, 14 August 2022 – 21:20:17

Subject	Please stop Origin Energy's fracking plans
From	Marian Giles
Sent	8/14/2022 9:20:17 PM

I am a very concerned person who, like everyone else can see the results of our lovely planet heating up.
Please listen to the traditional owners of our land and stop big companies like Origin from Fracking. This destroys the country, water and climate.
Yours sincerely
Marian Giles

Marian Giles
****
SA 5049

Giles, Marion – Thursday, 11 August 2022 – 15:29:19

Subject	Stop Origin's Fracking Plans
From	Marion Giles
Sent	8/11/2022 3:29:19 PM

To The Northern Territory Department of Environment, Parks and Water Security,

I am writing to you to implore you prevent Origin from fracking in the Northern Territory. Having experienced first hand the natural beauty of this country under threat I am deeply troubled that the gas industry could be let loose to exploit its resources at the risk of damaging it.

Firstly, The Traditional Owners have been staunchly defending their country against Origin for years. New fracking activity threatens water and cultural heritage. Respect must be shown to these First Nation's people trying desperately to protect their country.

Following The Pepper Inquiry of 2018, 135 recommendations were made to mitigate the environmental,social,cultural and economic risks associated with fracking. The Moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented. They have not been addressed.
Attempts by Origin to fast track their industry cannot be permitted.
Origin has not addressed accurately the full Climate impacts. In fact under this plan Origin would be creating a massive carbon footprint of over two-million tonnes of emissions. Most of these emissions would be scope 3 rather than scope 1 meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the Green House Gas emissions of Alice Springs!

Additionally, Origin will need 430 million litres of water to drill and frack the 12 wells in their proposal.
They will also produce 90 million litres of wastewater which they plan to truck interstate.

I must stand with Traditional Owners in their struggle to protect their precious country, cultural heritage and water. Please prevent Origin's reckless fracking plans.

marion giles
****
NSW 2303

Gillson, Janet – Sunday, 14 August 2022 – 18:35:49

Subject	Stop Origin's Fracking Plans
From	Janet Gillson
Sent	8/14/2022 6:35:49 PM

Northern Territory Department of Parks, Wildlife and Environment. It is imperative that we protect what we have and slow the loss of our Planet as we know it.
Consider.

Janet Gillson
****
VIC 3665

Gilmour, Gaven – Saturday, 13 August 2022 – 16:14:56

Subject	gaven@bauhinia-architects.com
From	Gaven Gilmour
Sent	8/13/2022 4:14:56 PM

Please, take a long term perspective on this issue, any pain involved in reducing reliance on mining such as fracking, better to have it now than further down the track, as the pain will be much worse then.

Gaven Gilmour
****
QLD 4700

Ginty, Genevieve – Sunday, 14 August 2022 – 18:19:29

Subject	gg.ginty@gmail.com
From	Genevieve Ginty
Sent	8/14/2022 6:19:29 PM

My name is Genevieve Ginty and I live on Dangar Island in NSW.

I am appealing to you, the Northern Territory Government, to please reject Origin's plans to frack in the NT.

It is time to move on and leave the gas in the ground, where it is safe and will not cause any damage to the atmosphere (through extraction and use), the water, land, flora and fauna and cultural and heritage sites.

Climate change is well and truly here, and like a fast-moving train, it will take a long time to halt its progress. But you have the power to apply the brakes, help slow the flow of emmissions and be part of the solution. Take a stand, make a change and be remembered in history for saying no to Origin. Please.

Genevieve Ginty
****
NSW 2083

Giorgi, Piero – Sunday, 14 August 2022 – 10:09:04

Subject	Stop Origin's Plan of Fracking Drilling
From	Piero Giorgi
Sent	8/14/2022 10:09:04 AM

To the Northern Territory Government, Australia

Please, prove to the world that Australia is a modern, civilised country capable of preventing the destruction of its own territory
by rich corporations.
History will report by whom and how Australia was defended.
A/Prof. Piero P. Giorgi – Kenmore Hills, Qld 4069

Piero Giorgi
****
QLD 4069

Gittens, Anne – Sunday, 14 August 2022 – 15:52:24

Subject	Stop Origin's fracking plans in the NT
From	Anne Gittens
Sent	8/14/2022 3:52:24 PM

To the NT Department of Environment, Parks and Water Security

I am astounded that Origin Energy has plans to frack any, let alone 12 new sites in the NT!
As a frequent visitor to the NT and knowing how important the environment is to the indigenous peoples, it's beyond belief that you could let this go ahead.
Origin Energy like to say that they care about the environment and renewable energy, but this shows how shallow their commitment is. We have seen absolute devastation in other states, when fracking goes ahead. Aren't we meant to be cutting out gas as a long term energy source?
Shame on you Origin!!!

Anne Gittens
****
VIC 3222

Given-Wilson, Patrick – Friday, 12 August 2022 – 07:18:46

Subject	Origin and Fracking
From	Patrick Given-Wilson
Sent	8/12/2022 7:18:46 AM

To NT dept of Environment Parks and Water Security

Please do not allow Origin- or anybody else- to frack in the NT. It is dangerous, destructive of the environment, and unnecessary when we have clean alternatives like solar power. Please consider the country and future generations.

Thank you for listening.

Patrick Given-Wilson

Patrick Given-Wilson
****
NSW 2095

Glastonbury, Ingrid – Saturday, 13 August 2022 – 19:35:48

Subject	No Fracking in the NT by Origin or anyone else.
From	Ingrid Glastonbury
Sent	8/13/2022 7:35:48 PM

I am horrified to hear that Origin Energy have plans to undertake fracking in the Northern Territory, against the express wishes of the Traditional owners. You must put a stop to this. Underground water would be affected, and there is the potential for permanent damage to this vital resource.

Ingrid Glastonbury
****
SA 5352

Gleadell, Eric – Thursday, 11 August 2022 – 18:56:51

Subject	No more fracking
From	Eric Gleadell
Sent	8/11/2022 6:56:51 PM

Dear NT Dept Env Parks & Water,
I have spent many years in the Territory in the past, and am an Environmental Professional. Experience & knowledge of both of these make it clear to me that there should absolutely be no more fracking in the Territory. It is a highly destructive, long lasting impact, that betters only a handful of already wealthy people.

Kind Regards
Eric Gleadell

eric gleadell
****
WA 6162

Gleeson, Margaret – Sunday, 14 August 2022 – 13:43:51

Subject	Australia is our beautiful home. Let's keep it beautiful.
From	Margaret Golder And Paul Gleeson Gleeson
Sent	8/14/2022 1:43:51 PM

To the minister responsible for,

Northern Territory
Dept Land , Environment and Water.

Dear Sir,

I live in Melbourne, far from the warmth and space so special to The Northern Territory. However from chilly Melbourne on a bleak winters day I write to you about gas reserves.

All around our planet there are companies promising quick profits and negligible problems. But just as common are the tragic results. Our once spectacular Great Barrier Reef is being choked by farm runoff, and is dying of heat stress from the warming ocean. In PNG once fertile valleys are clogged with sludge from mining, and local people who used proudly grow their own food now drift to Port Moresby and lack a balanced diet.
The promise of quick cash from companies proposing fracking to release gas reserves might sound like an answer to the Territory's finances, but let's look carefully at the likely long term results.
The traditional land owners have continually refused permission for their land to be damaged in this way. It is really clear land owners will be forced from their sacred space. Some will add to the housing and social problems already apparent in Darwin, others will loose heart as they loose connection with their land they may become distressed dispossessed people disrupting tourism in the nearby towns.

The cash made from the fracking will line the pockets of multinational companies and their lawyers. Northern Territory people will see little of it. Look at the fiasco in the eastern states AS OUR GAS IS SOLD OVER SEAS and we struggle to manage with the leftovers.
Please see the long term view, the Northern Territory is wild and beautiful, it can be used forever as a health tonic for the Austrian Nation and as an international tourism drawcard.
OR
The ageless beauty of Northern Territory can be squandered in the short term for a miserly percentage of the profits of a multinational company.
Please keep beautiful what is beautiful and I am one of many who will return again and again.

Paul Gleeson and Margaret Golder.

Margaret Golder and Paul Gleeson gleeson
****
VIC 3984

Gleeson, Paul – Sunday, 14 August 2022 – 20:46:33

Subject	Stop Origins fracking plans
From	Paul Gleeson
Sent	8/14/2022 8:46:33 PM

Northern Territory Department of Environment, Parks and Water Security , please STIP Origins attempts to continue fracking in the NT !!
Fracking has not only caused contamination of natural ground water reservoirs but also release Greenhouse gas emissions ; this alone should be enough to restrict or ban the process !
Do the Right Thing for this beautiful country !!!!

Paul Gleeson
****
NSW 2320

Gluyas, Rick – Friday, 12 August 2022 – 17:15:03

Subject	randj1206@gmail.com
From	Rick Gluyas
Sent	8/12/2022 5:15:03 PM

Norther Territory Department of Environment, Parks and Water Security.

G'day,

My name's Rick Gluyas and I would sincerely hope - nay - expect, that a Labor Government would never be guilty of viciously abusing First Nation's people by recklessly destroying their homeland in the manner that fracking would undoubtedly do.

Nothing more to be said,

Rick

Leave

Rick Gluyas
****
QLD 4020

Godley, Maxine – Sunday, 14 August 2022 – 12:39:36

Subject	Please think carefully about alternatives….
From	Maxine Godley
Sent	8/14/2022 12:39:36 PM

Good afternoon to the Origin Team
This is not entirely about Traditional Owners- but do let's LISTEN to them!

This is about fracking… please look ahead - and not behind us. The future is NOT in fracking! It is dangerous to our land and particularly to our Artesian Basin and the water which so many other people and animals rely on.

Yes - farmers have lost water from their bores - rendering huge paddocks unusable for stock. Clear isn't it? No water/no stock. And water in the kitchen sink - light a match. No water - just gas. And gas seeping up through the damaged ground - measured and recorded by universities.

Origin - please don't be the company that the next generation fines for unlimited damage. Put that money into renewable energy — and earn our praise :)

Respectfully
Maxine Godley
14 Thompson Court, Habana Q 4740
****

Maxine Godley
****
QLD 4740

Goetzmann, Margarrt – Sunday, 14 August 2022 – 14:55:04

Subject	Stop Origins Franking Plans
From	Margarrt Goetzmann
Sent	8/14/2022 2:55:04 PM

Without permission from the Traditional Owners/Aboriginals ....stop Origans Franklin Plans.

Margarrt Goetzmann
****
QLD 4573

Goldstein, Vivienne – Sunday, 14 August 2022 – 16:37:22

Subject	Block Origin's Fracking Plans
From	Vivienne Goldstein
Sent	8/14/2022 4:37:22 PM

Dear Members of the NT Government

As I am sure you are aware, Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If you approve these plans, you would not only be giving the green light to Origin to frack and destroy our countruy, water and climate, BUT you would be setting a devastating precedent for other fracking corporations to do the same!

Please prevent this destruction of our Common Home.

Blessings on your service of our people

Yours sincerely

Vivienne Goldstein
****
NSW 2162

Goll, Richard – Friday, 12 August 2022 – 11:18:13

Subject	Please don't approve any new fracking, coal or gas plans
From	Richard Goll
Sent	8/12/2022 11:18:13 AM

The new federal government is in the process of legislating for binding controls to limit the amount of Australia's contribution
to global warming by 2030. Any additional projects for fracking, coal or gas undertaken independently will make it impossible to comply with these controls.
Nationally we need to be planning for a gradual transition away from fossil fuels towards renewable energy and we need to reduce our level of export of coal and gas to assist other countries to also meet reasonable but urgent global temperature reduction targets.

Richard Goll
****
NSW 2090

Golledge, Judith – Saturday, 13 August 2022 – 22:19:49

Subject	Totally stop fracking!
From	Judith Golledge
Sent	8/13/2022 10:19:49 PM

Northern Territory Department of Environment, Parks and Water Supply.
My name is Judith Golledge. I am a 73 year old woman who has seen the destruction of many environments in my life time. Land clearing, and it's accompanying destruction of fauna and flora, in particular tree species. The alteration of waterways and bush land that has changed the rainfall patterns in areas that are now affected by drought and salt. Bores and wells that run dry because the water table has changed. Now companies like Origin want to do more damage by fracking. It is completely unfathomable to me that you could find it acceptable to allow fracking for any reason, in any place.
Don't do it. I'm appealing your sense of honour . You know the repercussions are irreversible. Damage will be caused that can not be repatriated. Have some shame. We're counting on you to do the right thing.
We should stand together to plan and fight for the future of our precious country. Not allow greed and someone else's "bottom line" to prevail. This is far too important to allow. Please do not do it.

****

Judith Golledge
****
VIC 3500

Gonda, Stuart – Thursday, 11 August 2022 – 17:30:42

Subject	sgonda01@gmail.com
From	Stuart Gonda
Sent	8/11/2022 5:30:42 PM

In 2022 there is no need to use the dangerous and destructive methods to produce energy. I sand with First Nations Australian's who have seen too much destruction and disregard for country and demand change. The government promised real action on climate at the last election. Permitting Origin to continue fracking, disturb and threaten our ground water to product non renewable energy is contradictory to this promise. In action on climate and conservation is the new denial. Stand up for your country and against big corporations or resign your power to someone who will look after our great county. Please act in the long term interest of many over the short term financial interest of a few already wealthy people.

Stuart

Stuart Gonda
****
SA 5159

Goodall, Carolyn – Saturday, 13 August 2022 – 15:25:10

Subject	Stop the fracking
From	Carolyn Goodall
Sent	8/13/2022 3:25:10 PM

Thank you watching over our environment and taking all aspects of our country's healing seriously. Many of us are reliant on you to represent us and express our concerns, and objections to unnecessary destruction of our environment, now and for our future. We object to any more ongoing fracking in the Northern Territory and plead with you consider what we the people, want for this country. As the last election showed, the number of people supporting a green approach grows every day, and this will show in future elections as well. Now is the time to stop anymore damage. It's enough. Thank you

Carolyn Goodall
****
QLD 4115

Goode, Jeff – Friday, 12 August 2022 – 07:11:54

Subject	Please just stop the destruction
From	Jeff Goode
Sent	8/12/2022 7:11:54 AM

Resource companies are a freight train of destruction, they have no moral or ethical brakes and are fuel by greed.

Jeff goode
****
NSW 2785

Goodwin, Janine – Friday, 12 August 2022 – 15:59:34

Subject	Stop Origin's fracking plan's
From	Janine Goodwin
Sent	8/12/2022 3:59:34 PM

To the N.T. Dept of Environment, Parks & Water Security,
Please stop Origin from opening twelve knew fracking drills in the N.T.
Origin must not be allowed to destroy our country,water and our climate.
If you allow Origin to do this, it will just pave the way for other companies to do the same.
The environment should alway's come first,

Regards,
Janine Goodwin
Bundaberg.

Janine Goodwin
****
SA 5039

Goodyear, Michael – Sunday, 14 August 2022 – 14:30:27

Subject	Inadvisability of new fracking projects
From	Michael Goodyear
Sent	8/14/2022 2:30:27 PM

To whom it may (and should) concern,

I'm writing to express my opinion that Australia, and the NT, cannot afford to approve Origin's twelve new exploratory fracking wells at Amungee Mungee pastoral station.

These wells will trade enormous amounts of water, and risk wastewater pollution - a management plan for which does not appear to have been formed - in order to retrieve an energy source that's contributing to the rapid destabilisation of our climate, and ultimately - if projects like these continue - our society, economy, and civilisation.

I cannot think of a legitimate reason, besides some form of bias, coercion, or corruption, that such a project could be determined to be in the public interest, or to be reflective of Australians' wishes.

In the death throes of the fossil fuel industry, we already see gas companies abandoning their social license to operate, seemingly rushing to exploit as many resources and captive markets as they can, in the window before government is forced by climate disasters and CPI to draw a line.

At what point - if ever - will your department, and decision-makers in similar positions, find the courage to draw that line, before their hand is forced? And how will history remember you, in view of this delay?

I encourage you in the strongest possible terms to intercede in the approval of this exploratory fracking.

Best,

Michael

Michael Goodyear
****
NSW 2050

Gopalasamy, Dev – Sunday, 14 August 2022 – 13:18:59

Subject	devgop01@gmail.com
From	Dev Gopalasamy
Sent	8/14/2022 1:18:59 PM

Origin plans to open twelve new fracking drills in the Northern Territory threaten water, cultural heritage, and our climate.

Dev Gopalasamy
****
NSW 2138

Goppert-Cole, Stella – Saturday, 13 August 2022 – 18:16:54

Subject	Stop Origin's Fracking Plans
From	Stella Goppert-Cole
Sent	8/13/2022 6:16:54 PM

To Whom it May Concern from the Northern Territory Department of Environment, Parks and Water Security,

My name is Stella Goppert-Cole and I am a citizen of Tuggeranong, Greenway ACT.

I am writing to this body to demand they prohibit and reject Origin's plan to frack and further decimate First Nation's Land and threaten not only our water resources and climate, but also severely damage cultural heritage. It is more important than ever to display solidarity with Indigenous communities within Australia. This is because 2022 serves as a critical time in our nation's consciousness, in which we need to address our role in continuing to perpetuate systems of oppression, particularly colonialism.

By approving these new fracking drills and allowing Origin to infringe further upon the rights of our First Nation's peoples, we are continuing to perpetuate a harmful colonial legacy and anti-blackness. The NT government must keep companies such as Origin accountable when it has the power to do so. In trying to construct a healing within our nation, we must ensure that colonial practices such as fracking on Country and destroying cultural heritage must stop. I implore you to act in solidarity with the wishes and demands of our First Nation's communities and stop this horrific project in an attempt to affirm the foundational work (stopping and acknowledging colonial violence) that is integral to building an Australia we can all be proud of.

Stella Goppert-Cole
****
ACT 2900

Gordes, Graeme – Sunday, 14 August 2022 – 15:55:01

Subject	Fracking in NT
From	Graeme Gordes
Sent	8/14/2022 3:55:01 PM

I do not approve of fracking in NT or anywhere else in Australia. Please stop it. Cheers Graeme Gordes

Graeme Gordes
****
VIC 3124

Gore-Symes, Peter – Thursday, 11 August 2022 – 19:43:17

Subject	This is getting tiresome
From	Peter Gore-Symes
Sent	8/11/2022 7:43:17 PM

Once the water tables are damaged in this way, they can’t easily be restored. Don’t frack

Peter Gore-Symes
****
QLD 4030

Gostin, Olga – Friday, 12 August 2022 – 22:45:56

Subject	Stop fracking in the Northern Territory
From	Olga Gostin
Sent	8/12/2022 10:45:56 PM

Minister for Environment, Parks and Water Security
NT Dept Environment, Parks and Water Security

Respected Minister,
I am writing to you to express my concern at the proposal to open up 12 fracking mines in the Northern Territory.
The negative impacts of fracking on the environment and water resources have been proven beyond doubt both in Queensland and overseas settings.
Most importantly, traditional owners have expressed in the strongest terms that they oppose such developments that run counter to their holistic duties of care for country. In the current climate of respectful heeding the voice of Indigenous people, and in the light of proven scientific evidence that fracking is not environmentally sound, I appeal to you to put a stop to this proposal.
If the gas companies stand to lose financially, so be it - they have made huge profits from the Timor Gap venture. It is time to take a moral stand and to have the courage to put principles ahead of profiteering. Future generations will be infinitely grateful for such a wise and principled decision.
I appeal to your intervention in this matter,
Very sincerely,
Olga Gostin

olga gostin
****
SA 5081

Gothe, Anne – Thursday, 11 August 2022 – 18:59:03

Subject	Look at origins plans with eyes on Mother Earth
From	Anne Gothe
Sent	8/11/2022 6:59:03 PM

We have seen the destruction of Mother Earth
All over the world greed has made the eco system struggle to continue.We are a part
Of this living breathing earth and denying
That has been to our peril.Please try to take
Less from the earth so the water ways and the earth can heal.We are at a cross road and we can see a little more of our effect an the earth
Now ,we can turn the tide to encompass
Action towards the well being of all.For the
Greater good of this precious life we share
With,each other the earth and the universe
Anne Gothe
11.8.22

Anne Gothe
****
NSW 2454

Goudsmit, Jepke – Sunday, 14 August 2022 – 20:44:15

Subject	Do not allow Origin to open 12 new drills in NT
From	Jepke Goudsmit
Sent	8/14/2022 8:44:15 PM

Even though I do not live in the NT, as an Australian citizen aware of the acute dangers of climate change and the urgent need for all countries in the world to reduce greenhouse gas emissions rapidly, I am making this submission in the hope Origin will not be allowed to open 12 new fracking drills in the NT as planned.
I am sure I am not the only one of the opinion that shifting away from fossil fuels as quickly as we can will give us, Australia, the world, the hope we can indeed keep temperature rises no higher than 1.5 degrees C.
The most prominent people I can think of who would agree with me concerning the disastrous plans of Origin, would be the traditional owners of the land where Origin is projecting to drill. Indeed they have been very vocal about their opposition to the project.
I am asking, no, pleading and urging the Department to reject Origin's EMP.
Sincerely,
Jepke Goudsmit
1/54A Mount St, Coogee, NSW 2034

jepke goudsmit
****
NSW 2034

Gough, Jon – Monday, 15 August 2022 – 07:19:38

Subject	Stop Origin's fracking plans
From	Jon Gough
Sent	8/15/2022 7:19:38 AM

To the Northern Territory department of environment, Parks and Water security.

The proposed fracking of any ground to release natural gas is the most irresponsible, future destroying, short term gain, long term cost, plan. Once started there is no going back as the ground cannot be in fractured. Experience in other locations, i.e. Narrabri region, show that a significant proportion of the gas released is not captured, but escapes through other faults in the rock. This then cannot be 'turned off' when the financial costs out weigh the gain. The escaping, non captured gas, increases our greenhouse gas emissions, contaminates farm land, destroys water quality, will exacerbate bush fires, and has, at best, 15 years of possible utility. Currently every mining company seems to declare bankruptcy when mines are not viable and therefore are not held accountable for the repaitriation of the impacted areas. This regardless of the contracts signed to gain access to the resources, financial assistance from governments and complete disregard for normal legal and moral obligations.

Origin must be made to stop 'preparitory' works and repatriate the destruction caused so far before any consideration of the current proposal is undertaken. If this is not done then you have signalled that they will not be held accountable for any damage and destruction done. This is not acceptable.

Think of the future, think longer term than the next few years, consider the legacy you are leaving.

Jon Gough
****
NSW 2620

Gould, S – Friday, 12 August 2022 – 20:06:21

Subject	Please reject Origin's fracking drilling plan in the NT.
From	S Gould
Sent	8/12/2022 8:06:21 PM

I am asking the Department to reject Origin's fracking drilling in the Northern Territory. These wells threaten cultural heritage and the precious water. And we shouldn't be trying to burn more gas in this day and age. Our climate is in jeopardy and burning fossil fuels and putting all the more carbon into the sky is the last thing we all need. We need to be focusing on solutions to the climate and absolutely stopping the reverse.

Please meet the demands of the traditional owners who have been looking after country for millennia. Origin's Environment Management Plan has no plan to manage millions of tons of toxic wastewater - they have already admitted this and they want to take a colossal amount of water to do this operation.

It hurts me that we overide the traditional owners country time and time again.

Please reject Origin's EMP

S Gould
****
VIC 3460

Gouldhurst, Peter – Friday, 12 August 2022 – 16:46:36

Subject	Please, please reject Origins planned fracking.
From	Peter Gouldhurst
Sent	8/12/2022 4:46:36 PM

Natural Gas is METHANE, many times more disastrous than CO2 in causing GLOBAL WARMING! Little more needs to be said except:
(1). Global Warming is irreversible, at least in relation to our life time, or those of generations of our children or their children. (2). It's disastrous effects are already with us as fires, floods, sea level rise, droughts and extreme weather.
(3). Exponential change, (tipping points) may already be upon us. The Arctic, Antarctic and Greenland temperature are rising and the ice melting at a rate that surprises scientists. Rock and ocean water absorb radiation more than the reflective ice and snow. Melting Tundra is releasing both gases.
(4).Fracking leaks methane as does its industrial and house-hold use.

Our politicians are explaining its use as a step towards renewables, but it is too late and too dangerous for that purpose. Some economic sacrifice is necessary at this time, not fracking.

Peter Gouldhurst
****
SA 5073

Goulding, Meredith – Sunday, 14 August 2022 – 17:38:13

Subject	STOP ORIGIN FRACKING
From	Meredith Goulding
Sent	8/14/2022 5:38:13 PM

Northern Territory Department of Environment

I am stunned that reckless, irresponsible and seemingly unlawful fracking projects are being allowed to proceed under your aegis.
It seems very very clear that Origin's actions are against every interest other than their own corporate gain.
Such wilful greed has no place in Australian society today.
I strongly urge you to consider that greed against all the other arguments that have been put to you. Having done that, your responsibility must become crystal clear.
Please act to honour the responsibility with which you have been charged. It is both your moral and legal duty.

meredith goulding
****
NSW 2100

Gower, Irene – Sunday, 14 August 2022 – 15:33:46

Subject	ACT.....NOT FRACK.....
From	Irene Gower
Sent	8/14/2022 3:33:46 PM

To the NT Government Department of Environment Parks and Water Security.
As a "white woman" in her 80s, I wish to support the Traditional Owners in their bid to stop fracking in the NT.
What's the use of a voice to parliament when their voice is ignored on such a critical issue.
Origin should be looking at a sustainable future not destroying country, water and the climate.
It is imperative that you stop Origin's fracking plans.
Please listen to the people who have looked after this country for thousands of years.
Europeans have only been here 200 years and look at the mess so far.

Irene Gower
****
SA 5255

Grabowski, Wanda – Sunday, 14 August 2022 – 12:41:48

Subject	Stop fracking in the Northern Territory
From	Wanda Grabowski
Sent	8/14/2022 12:41:48 PM

I am a retired environmental scientist devoting my time to the conservation and sustainability of native flora and fauna in Queensland. I am concerned about the destruction of our native habitat, its impact on the wildlife and climate change.

It is about time that we respect the wishes of Australia's traditional owners who for thousands of years have looked after native flora and fauna ensuring its survival till the present time. Right now things aren't looking so good and climate change will place increasing pressures on the natural environment.

Fracking is of particular concern to me because it will destroy the land, the water and the climate. The Australian Government at all levels should not be supporting this destruction industry. Origin appears to be devoted to increasing the perils facing our natural environment by wanting to opening 12 new wells. This company has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT. Origin wants to fast track disastrous gas production without the right license:

"Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas. It is essential that we nip this in the bud.

Origin is planning to sell the gas from this proposal – even though they don't have a production license to do so. Of course, you must know that once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

Origin has not addressed the full climate impacts, they are claiming that by selling gas, they will reduce emissions. This is absolutely ridiculous and not true. Origin is intending to keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions. This is not okay.

Fracking requires huge amounts of precious water, they will need 430 million litres of water to drill and frack the twelve wells in their proposal. Taking that water from the Gum Ridge Formation will place huge negative impacts on 'country'.
Origin has no plan in place to deal with the 90 million litres of wastewater they will produce. Again, this is not okay. Instead, they will ship the waste elsewhere making disposal a problem for another region.

In 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. This resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented. Origin has not implemented all the recommendations from the crucial Pepper Inquiry.

The above information confirms that this proposal should be stopped for the reasons detailed. Most importantly, the Traditional Owners don't want this project to go ahead. It is about time we respected their rights. It is after all their backyard.

Wanda Grabowski
****
QLD 4518

Grace, Gilbert – Thursday, 11 August 2022 – 14:24:32

Subject	Stop Origin and all fracking plans
From	Gilbert Grace
Sent	8/11/2022 2:24:32 PM

My name is Gilbert Grace I am an Australian citizen resident in Australia. I am writing to insist that fracking and all related extractive industries be brought to halt immediately and workers compensated and transitioned to other industries.

It has already been shown that there are no scalable carbon capture and storage options to account for the increased carbon, methane and carbon equivalents that will be released in the mining, refining, export and burning of this fuel. Industry supply chains can no longer be relied upon due to geopolitical instability. Technical fixes wont cut it.

The option is in demand and not supply. Reduce demand by reallocating subsidies to industry and households that reduce demand. Ensure these are bona fide reductions. Promote carbon neutral investments. And make the environment the focus of sustainability rather than growth and profits for a few.

I am asking the Department to reject Origin's EMP.

Yours sincerely,

Gilbert Grace
84 Prospect St
Erskineville NSW 2043

Gilbert Grace
****
NSW 2043

Grace, Marcia – Sunday, 14 August 2022 – 15:33:43

Subject	Please don't allow Origin's fracking plans
From	Marcia Grace
Sent	8/14/2022 3:33:43 PM

My name is Marcia Grace and I live in the Blue Mountains of NSW.

I'm totally frustrated that ANY government in Australia is potentially going to approve of more fossil fuel mining/fracking.

No one is seduced by the Gas-led renewable idea... we all know that heaps of methane is released in the mining process... outweighing any "Lighter emissions from gas" rubbish!

Also the destruction to wildlife under threat, Indigenous Australian special lands, water systems is just overlooked by people who only want to make money for their pocket...
The federal government and even you, the Northern Territory government give taxpayer dollars to these companie... what the F??

Do NOT approve Origins' EMP, or anyone else's.

Be responsible for the future of us all, not just the profit on Origins Annual report.

Respectfully,

Marcia Grace
Blue Mountains NSW

marcia grace
****
NSW 2785

Gracie, Carolynn – Friday, 12 August 2022 – 15:44:35

Subject	Stop Origin's Fracking Plans
From	Carolynn Gracie
Sent	8/12/2022 3:44:35 PM

To: The NT Department of Environment Parks and Water Security

It has been brought to my attention that Origin plans to open twelve new fracking drills in the Northern Territory. I believe that these wells have the potential to threaten the water, cultural heritage and our climate.

Please use the power which has been vested in your Department, to ensure that each of these fracking drills does not proceed.....ever.

Thank you
Yours sincerely
Carolynn Joy Gracie

Carolynn Gracie
****
QLD 4556

Gradwell, Mark – Saturday, 13 August 2022 – 15:09:10

Subject	Stop Origion fracking plans
From	Mark Gradwell
Sent	8/13/2022 3:09:10 PM

To the NT environment, parks and water.

I totally reject any gas fracking in the Beetaloo Basin or elsewhere in the NT. Our water is precious, traditional owners are fervently against dirty destructive fracking and of course we do not need more methane and carbon dioxide released into the atmosphere causing global warming.

Mark Gradwell

mark gradwell
****
QLD 4223

Grady, Janet – Sunday, 14 August 2022 – 18:04:51

Subject	Stop Origins Fracking of NT
From	Janet Grady
Sent	8/14/2022 6:04:51 PM

My Name is Janet Grady l am from Melbourne Victoria. I have recently come back from the Northern Territory, and the North Western part of Australia is unique and wondrous. It might have lots precious minerals, but water is not one of them, you can't make water, you can only try to preserve, protect it and keep it as clean as you can. Please do no fracking as the disasters that have happened in other countries with fracking and the poisoning of the water is terrible, and there is no going back once the water is polluted. If you really respect the culture and rights of the aborigines, especially after all we have done to them we should not Frack. Thank you for reading this

Janet Grady
****
VIC 3021

Graefner, Birgit – Sunday, 14 August 2022 – 17:02:26

Subject	URGENT - STOP ORIGIN'S FRACKING PLANS
From	Birgit Graefner
Sent	8/14/2022 5:02:26 PM

Dear Minister,

I'm utterly appalled to see that Origin is STILL planning to continue fracking wells in the NT.
Please - look around the world , look at the devastation globally - caused by serious long lasting, UNPRECEDENTED WEATHER patterns. GLOBALLY.
It's so important to ACT GLOBALLY NOW - to leave the fossil fuel approach behind us once and for all.
We know the alternatives and now we all have to concentrate on getting those renewable techniques set up!!!

Sincerely
Birgit Graefner

Birgit Graefner
****
NSW 2250

Graham, Gill – Thursday, 11 August 2022 – 14:31:33

Subject	Stop Origins fracking wells
From	Gill Graham
Sent	8/11/2022 2:31:33 PM

Origin must stop fracking for gas. I am getting rid of gas in my house and doing my best to use as little electricity as I can. Fracking is poisoning ground water and damaging land that Indigenous people live on and is considered their land. Also, gas fumes are creating global warming along with oil and coal.

Gill Graham
****
NSW 2576

GRAHAM, Jonathan – Saturday, 13 August 2022 – 14:14:15

Subject	Reject Origin now
From	Jonathan GRAHAM
Sent	8/13/2022 2:14:15 PM

This government has the responsibility to defend the rights of NT citizens as well as to act as custodians of the land. Approval of Origin's plans to drill here in the NT would directly undermine both of those responsibilities and would make a mockery of this current Labor Government. In fact it would render them as useless as the previous Federal government who were an enemy of Australia's people and it's land. Allowing fracking is reckless in the extreme and in my opinion should constitute a criminal act.

Jonathan GRAHAM
****
NT 0810

Grant-Johnston, Helen – Sunday, 14 August 2022 – 14:56:06

Subject	Stop Origins Fracking Plans
From	Helen Grant-Johnston
Sent	8/14/2022 2:56:06 PM

I am Helen Johnston from Adelaide South Australia. I have always supported respecting the land, it's heritage and the right of the First Nation Peoples with their ancient knowledge and respect of the land, to have the right to be listened to & respected for their ancient knowledge and original owners of the land we are speaking about.
I support totally the banning of fracking on precious heritage land paving the way for Origin to frack and destroy the country, water and our climate. This precedent must not be allowed!!
I am asking for the Department to reject Origin's EMP. Regards Helen Johnston

Helen Grant-Johnston
****
SA 5009

Grapsas, Chris – Thursday, 11 August 2022 – 21:00:37

Subject	Stop Origin's fracking plans
From	Chris Grapsas
Sent	8/11/2022 9:00:37 PM

Hello

My name is Chris and I live in Melbourne Victoria
I might be on the other side of the country but climate change knows no borders and the environment is a very serious matter that effects all of us regardless of country, continent, city or state
That is why I writing this submission as I would like to unite my voice with our indigenous population and everyone else, to express my objection to any new coal and gas project, wherever that might be, especially the fracking in the NT and call upon the NT government to stop Origin, one of the most destructive corporations of our times
Stop putting profits before peoples lives, health and climate
I am asking for Origin's EMP to be stopped!

Chris Grapsas
****
VIC 3025

Gray, Arleen – Saturday, 13 August 2022 – 16:21:55

Subject	Please Stop Origin's Fracking Climate-wrecking Plans
From	Arleen Gray Gray
Sent	8/13/2022 4:21:55 PM

To: NT Dept of Parks, Environment, and Water Security, and Environment Minister Lauren Moss,

My name is Arleen Gray, and I am writing to you as a concerned citizen of Australia and planet Earth, and with an urgency for you to use your governmental responsibility and power to put an end to the plans of companies such as Origin who want to begin more fracking projects in the Northern Territory.

The traditional custodians of our country don't want it, nor does our planet/ the environment, along with anyone with a conscience or moral backbone. The water that would be used for fracking is just too much; it is an inappropriate use of precious water. Fracking brings with it problems of toxic wastewater and environmental degradation along with climate-wrecking emissions.

Origin are trying to get around environmental safeguards with untruths. They are wanting to get on with fracking under the guise of "exploration" without the proper licensing or addressing environmental concerns.
They are NOT following the recommendations from the 2018 Pepper Inquiry which should negate their chance to proceed. Our regulatory systems are being undermined!

If your Government approves Origin's EMP, Origin would be able to frack with detrimental consequences for cultural lands and peoples, water, and our environment and climate's future. Additionally, the precedent it would set for other fracking corporations would mean disaster!

Please consider the future of our children and ensure Origin's Environmental Management Plan is REJECTED. The risks are simply unacceptable.

Thank you for your time,

Arleen Gray

Arleen Gray Gray
****
QLD 4032

Gray, Celia – Saturday, 13 August 2022 – 15:03:32

Subject	Proposed fracking in the NT
From	Celia Gray
Sent	8/13/2022 3:03:32 PM

I am an Environmental Scientist living in North Perth WA. I care about the Kimberley and NT country as I visited the region on a school trip there in 1965. And again I toured the NT in 2006. It is all such a special place.

The proposal by Origin for fracking in the NT are totally unacceptable on a number of grounds and therefore should not be approved in any form.
Further the NT Government should instate a permanent ban on all fracking in the NT.
1. Traditional owners are objecting to fracking on their country. It destroys their values of country. This must be respected. On these grounds alone the proposal for fracking of their country should be refused.

2. Gas fracking produces a fossil fuel. The advice of the Intergovernmental Panel on Climate Change (IPCC) is that there must be no new or extended fossil fuel production as it increases greenhouse gas emissions - which contributes to climate change and will not enable the 1.5 degree centigrade global warming limit. It is essential that this IPCC advice which is based on science and facts is respected by all governments. Therefore on these grounds alone the proposal must not be permitted at any scale.

3. Fracking involves injecting chemicals into the landscape to cause fracture and release of gas. These chemicals cannot be removed and thus contaminate groundwater and the land. This is a form of irreversible pollution and is totally unacceptable. It must not be permitted. On these grounds alone, fracking should be and indeed must be banned by the NT Government on all of the Northern Territory.

Celia Mary Gray OAM
Environmental Scientist
****
North Perth WA

Celia Gray
****
WA 6006

Gray, Geraldine – Saturday, 13 August 2022 – 15:42:45

Subject	Stop Origins plans to Frack
From	Geraldine Gray
Sent	8/13/2022 3:42:45 PM

I am a Registered Nurse and very concerned at the way our country is going. The world in general and Australia specifically is suffering from catastrophic weather, droughts floods and fires Destruction of environment, arable soil, water sources and pandemics related to our politicians predilection for fossil fuels and "development" at the expense of all else.
With power should also come responsibility.

Fracking will be severely detrimental to all your department stands for, destroying country water and climate. It is counter to all worldwide aims and the new Federal Government promise to reduce emissions. I expected better things of Labour considering the Federal promises.

Regarding the proposal.
Origin has not accounted for the full climate impacts. Most of the emissions will be scope 3 rather than scope 1 so that origin will not be accountable which is totally unacceptable. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of Alice Springs. How can this be considered remotely acceptable?

Our farmers are struggling there are water buyback schemes, the country has struggled with extreme weather, flood, droughts, fire, and yet Origin has lodged an Environment Management Plan to the NT Government with part of their application to drill and frack twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters. This will render this area unusable for the station and increase the water table salinity.

Under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions
in a dry country they propose to take 430 million litres or 172 Olympic swimming pools of water from the Gum Ridge Formation to drill and frack the twelve wells.
They will also produce 90 million litres of wastewater which they plan to truck interstate.

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage. I had understood this would be considered now.

Origin wants to fast track disastrous gas production & plan to sell the gas from this proposal – even though they don't have a production license to do so.
The NT's moratorium on fracking was lifted on the condition that all 135 recommendations of the Pepper inquiry were implemented.
Origin has not implemented all of the recommendations from the Pepper Inquiry so this should make it impossible for them to Frack and yet somehow they are able to put forward a proposal.
In 2022 there should surely be no doubt that this fracking proposal be rejected.

Please reject Origins EMP

yours sincerely

Geraldine Gray

Geraldine Gray
****
QLD 4500

Gray, Jennifer – Friday, 12 August 2022 – 14:21:35

Subject	Please refuse Origin's Latest fracking plans
From	Jennifer Gray
Sent	8/12/2022 2:21:35 PM

To: Northern Territory Parks and Wildlife and Water Security Department.

My name is Jennifer Gray, I live in NSW but was a resident of the Northern Territory from 1979 to 1999, so I am familiar with the land and the indigenous people.

I am asking you to reject the plan of Origin Energy to drill twelve new fracking wells east of Daly River.

Origin, in not yet implementing the recommendations of the 2018 Pepper Enquiry, is showing itself to be untrustworthy in its relationships with the indigenous land owners, the rest of the population and its care of the land.

It seems it is seeking to sell the gas from these wells without the recommended SREBA having been completed

This project will result in massive local (scope 1) and international (scope 2) greenhouse gas emissions.

The Intergovernmental Panel on Climate Change has stated that there must be no more new fossil fuel projects, such as this one, if we are to avoid destruction of life on our only planet.

I am asking you to reject Origin's EMP.

Yours sincerely,

Jennifer Gray.

Jennifer Gray
****
NSW 2481

Green, Mirella – Saturday, 13 August 2022 – 15:30:28

Subject	Stop Origin's Plan to Frack 12 New Drills in the NT!
From	Mirella Green
Sent	8/13/2022 3:30:28 PM

To the NT Dept of Environment, Parks and Water Security
I'm a resident of Darwin and elector, federally in Solomon, and in the Territory in Casuarina, where I have personal experience of the hard work done by Lauren Moss MLA for the people of her electorate.
I'm shocked and horrified to hear the NT Govt is considering approving Origin's plans for fracking 12 new drills. This would be totally contrary not only to the wishes of the First Nations people, but also to the majority of Australia's population. We all clearly expressed in the recent federal election that the problem of climate change and the need for govts to take immediate action to minimise it is our primary concern.
I'm also concerned at the very poor image such approval would give to the NT and its disastrous effect on our water, First Nations culture and on the development of much -needed tourism.
For all the above reasons I strongly urge you not to approve Origin's plans!
Yours sincerely
Mirella Green, Brinkin.

Mirella Green
****
NT 0810

Green, Rhonda – Sunday, 14 August 2022 – 08:47:44

Subject	NT Government Say NO to Origin.
From	Rhonda Green
Sent	8/14/2022 8:47:44 AM

Please do not allow Origin to dictate to the Government pushing for 12 new fracking drills to be approved.
I don't need to remind you, there will not be a future for land, water, jobs, wildlife if Origin is allowed to destroy everything natural for their own money making deals. If approved, how many big businesses will be jumping on the bandwagon.
Traditional Owners know how to look after their country, livelihoods and health depend on a natural clean environment.

Rhonda Green
****
NSW 2450

Greenwood, Jennifer – Friday, 12 August 2022 – 14:53:03

Subject	stop Origin fracking in NT
From	Jennifer Greenwood
Sent	8/12/2022 2:53:03 PM

To NT Department of the Environment and Warter Security-
I am a philosopher at UQ and a determined climate/environment activist. The planet is under very serious threat from fossil fuels and th expnasion of their industries is potentially disastrous. Please take the scientific evidence seriously and stop Origin's plans to open 12 new fracking drills in the NT. The proposal is lunacy given its threat to climate change (which is immense), to the environment (which is also immense) and to the well-being of First Nations people who live in the areas.
If this project is approved, it will open the door for equally damaging prposals from other fossil fuel companies.
NT should be investing in renewable energy rather than increasing the supply of damaging fossil fuels.
Yours sincerely
Dr Jennifer Greenwood
Brisbane

jennifer greenwood
****
QLD 4068

Gregg, Anna – Sunday, 14 August 2022 – 11:22:32

Subject	Stop Origins Fracking Plans
From	Anna Gregg
Sent	8/14/2022 11:22:32 AM

To whom it may concern,
I am a deeply concerned Australian citizen and I am writing to voice my objection to Origin's plans to open twelve new fracking drills in the Northern Territory — wells that threaten water, cultural heritage, and our climate.

Once again Origin is ignoring the Traditional Owners owners of this land who have been staunchly defending their country against Origin for years.

Please do not allow Origin to frack and destroy our country, our water, and our climate. It would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please protect our country and the planet by rejecting Origin's fracking plans.
Sincerely
Anna Gregg

Anna Gregg
****
NSW 2067

Gregg, Keith – Saturday, 13 August 2022 – 18:55:35

Subject	Fracking
From	Keith Gregg
Sent	8/13/2022 6:55:35 PM

The nature of fracking is fundamentally destructive. Traditional owners of Australian land not only fail to receive genuine benefit from this destructive process, they can be subjected to deprivation of clean, potable groundwater. The primitive nature and destructive consequences of fracking should be restricted to places where the quality of groundwater is not of significant importance.

Keith Gregg
****
QLD 4212

Gregorkiewitz, Miguel – Saturday, 13 August 2022 – 15:00:58

Subject	Stop Origin's fracking plans
From	Miguel Gregorkiewitz
Sent	8/13/2022 3:00:58 PM

Northern Territory Department for Environment, Parks and Eater Security

The energy of future comes from sun and wind, not one drop of oil more should be converted to CO2! In addition, fracking is a risky business and should be considered as such.

I like NT and would be happy to see the future realized here! Please stop Origin!

Miguel Gregorkiewitz

miguel gregorkiewitz
****
SA 5310

Gregory, Jenniffer – Sunday, 14 August 2022 – 19:20:18

Subject	Stop Origin's frackimg plans
From	Jenniffer Gregory
Sent	8/14/2022 7:20:18 PM

Today I watched America's very worrying water shortages in a few states. Ground water reduction lakes and reservoirs drying up, massive problems.
We must not allow fracking in the NT or anywhere else, our water is precious and must be protected

jenniffer gregory
****
NSW 2430

Gregory, Michael – Saturday, 13 August 2022 – 15:37:59

Subject	Please - No More Fracking
From	Michael Gregory
Sent	8/13/2022 3:37:59 PM

As a frequent visitor to the NT and lover of your beautiful landscapes, national parks, and abundant wildlife I am dismayed that Origin may be allowed to destroy the country, despoil the water, and have a negative effect on climate. Please, please do not allow any more fracking which will cause irreversible damage for short term gain and encourage these companies to invest in renewable energy instead.

Yours Faithfully
Michael Gregory

Michael Gregory
****
QLD 4552

Griffiths, Allison – Sunday, 14 August 2022 – 14:05:58

Subject	Please stop fracking NT
From	Allison Griffiths
Sent	8/14/2022 2:05:58 PM

Hi I'm a 56 year old Aussie who loves our country - and in particular the beautiful Northern Territory.
I know you will be getting heaps of these messages - and that is because no true Aussie who loves our country wants these corporations raping our land for their gain.
Please reject Origin's plans - be strong and stand up for our country.
Please!
Ally

Allison Griffiths
****
NSW 2076

Gross, Carl – Sunday, 14 August 2022 – 15:53:22

Subject	Origin's fracking Plans in NT
From	Carl Gross
Sent	8/14/2022 3:53:22 PM

I was in Alice Springs and grew up on Ntaria, so I am effectively an Arrarnta man. I have read frequently of the damage that fracking does to water and land resources on Country, and I am opposed to the potential dangers of fracking in my home country. Add these dangers to the environmental and climate change threats of opening up new gas fields in outback Australia, and the proposal seems to me to be a recipe for environmental and people-based disaster that we, as well as responsible citizens, and scientists world-wide can foresee, that proceeding with fracking of the sort you are proposing is not only dangerous and short-sighted, but also a crime against humanity.
Please, for the sake the First Peoples populations of my home country (Central Australia), and other people at risk throughout the world, shelve your plans to frack and destroy the NT.
Yours etc.
[Dr] Carl Gross

Carl Gross
****
SA 5238

Gugler, Ann – Saturday, 13 August 2022 – 09:26:08

Subject	Stop Origan's plan to open twelve new fracking drills in NT - that threaten water, cultural heritage and out climate!
From	Ann Gugler
Sent	8/13/2022 9:26:08 AM

My name is Ann Gugler and my first ancestors to arrive in Australia came on the second & third fleets. I have seen and heard the family stories about the damage to the land owned by the traditional owners and during the many decades of travelling in the outback have seen examples of this damage. This recent plan by Origin to frack and destroy country, water and climate that the traditional owners are firmly against must not be allowed to happen!

Ann Gugler
****
ACT 2607

Guinness, Cathy – Sunday, 14 August 2022 – 19:12:34

Subject	Stop Origin plans for new fracking
From	Cathy Guinness
Sent	8/14/2022 7:12:34 PM

Submission to the NT Department of Environment, Parks and Water Security

My name is Catherine Guinness from Melbourne. I am writing this submission to urge the Northern Territory Government to reject the plans by Origin to open 12 new fracking wells.

I am most concerned that the proposed wells would pave the way for extensive fracking of country with real risks to water and climate. This is also in the face of opposition from the Traditional Owners.

It particularly concerns me that Origin is planning to sell the gas from this proposal although they do not have the production license to do so. Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

This work requires huge amounts of water, and the lack of plans to deal with the toxic waste water they would produce has left Traditional Owners rightly worried about the impact on access to safe water for their communities.

For all these reasons I am asking the Department to reject Origin's Environmental Management Plan.

Cathy Guinness
****
VIC 3094

Gullidge, Denise – Saturday, 13 August 2022 – 16:28:41

Subject	Stop Origin's Fracking Plans
From	Denise Gullidge
Sent	8/13/2022 4:28:41 PM

To: Northern Territory Department of Environment, Parks & Water Security.

As the department for Environment and Water Security. it seems like an oxymoron for your department to be enabling the pollution of one of our most valuable resources - water.

Not only is Australia the driest continent on our Earth, we have finite and degrading sources of water, which we can't prostitute off to the highest, dirties bidder, namely Origin Energy.

Water is more valuable to gas - which we can survive without, especially with the development of more sources of sustainable energy occurring now. Water, we cannot survive without.

It must be in our national interest, which includes the interests of our Traditional Owners, that this fracking be stopped at all costs.

We have an amazing, unique country, which it seems that greedy companies are prepared to rape in their own interests and reduce to degraded and useless dry zones void of life, flora and fauna.

What a travesty!

Concerned Australian,
Dee Gullidge

Denise Gullidge
****
SA 5171

Gunesekera, Giles – Sunday, 14 August 2022 – 14:11:00

Subject	Stop Origin's Fracking
From	Giles Gunesekera
Sent	8/14/2022 2:11:00 PM

Traditional Owners have been staunchly defending their country against Origin for years.

Origin's fracking plans are reckless! Please don't allow
Origin to open twelve new fracking drills in the Northern Territory. These wells threaten water, cultural heritage, and our climate.

Giles Gunesekera
****
NSW 2111

Gunson, John – Saturday, 13 August 2022 – 12:56:10

Subject	Respect First Nations and stop Origin's Fracking Plans.
From	John Gunson
Sent	8/13/2022 12:56:10 PM

Northern Territory Dept. of Environment Parks and Water Security,

Dear Sir/Madam,

We write to request your Dept and Gov't refuse all requests/applications for approval to further mine or frack for fossil fuels, especially on the lands of First Nations peoples.

We have enough gas sources to bridge the gap to renewables, and it amounts to criminal intent against humanity to further exacerbate climate change.

Further, the Federal Gov't is prioritising a First Nations Voice to Parliament. It makes a mockery of this proposal to continue to ignore their voices currently calling for an end to such risky and unnecessary intrusions onto their lands.

Stop now before it is too late.

John & Shirley Gunson.

John Gunson
****
VIC 3070

Gunther, Rebecca – Saturday, 13 August 2022 – 22:24:52

Subject	Stop Origin's Fracking Plans
From	Rebecca Gunther
Sent	8/13/2022 10:24:52 PM

These new wells pose a massive risk to water and water quality, cultural heritage and the environment.
The traditional owners, Aboriginals and other First nations people must be listened too and abide by what they say.
Fuethermore there are huge amounts of water needed in the fracking process so local supplies will be depleted and if poisoned with fracking remote Aboriginal communities that rely on this water will be left without.
Furthermore the Aboriginal peoples and first nation peoples and traditional owners of the land have a spiritual connection to the land that a corporation or company does not understand or value, and any sort of damage could affect this connection. Hence, this connection should be valued and weigh in with significant importance.

Rebecca Gunther
****
QLD 4561

Gustafson, Katrin – Thursday, 11 August 2022 – 21:10:15

Subject	Reject Origin's Fracking Plans
From	Katrin Gustafson
Sent	8/11/2022 9:10:15 PM

I am writing to urge you to block Origin's fracking plans in the NT
Having lived in the NT for 10 years previously, knowing the beauty and cultural significance of the country, I have great fear that these plans will have hugely devastating impacts on the cultural heritage and country of the Traditional Owners as well as lead to further and completely unnecessary destruction of our environment through the emissions and risks to our precious water resources.
I am asking you to implement all the recommendations from the Pepper inquiry and hold Origin to account to ensure that there is truth, science is given the respect it deserves and the voices of our First Nations people are taken into account.
I am asking you to reject Origin's Environmental Management Plan for the flawed and disingenuous plan that it is.
Thank you
Katrin Gustafson

Katrin Gustafson
****
NSW 2300

Guy, Karen – Monday, 15 August 2022 – 12:10:38

Subject	Frackers use the law for further abuse of the environment
From	Karen Guy
Sent	8/15/2022 12:10:38 PM

Dear Minister,
It is difficult to fathom how the NT having previously banned all fracking, is now considering it's allowance.

Im sorry I do not have the link to the article of investigation I read, but it was scary to have read, that such companies can use a loophole to avoid more thorough scrutiny if under a certain amount is extracted within a given time. So obviously a 12 well project, for example, can be used to ensure each well is kept under the limit.

Did you know that scientific research & evidence lately published, shows that literally nowhere in the world is rainwater pure anymore. All of it, everywhere contains at least some amount of toxic chemicals, rendering it unsafe to drink long-term. Again sorry I don't have the link. I think it was a Swedish study.

Renewable energy technology has been around for decades & we never hear about such small to medium projects & the great success. How these technologies can be and are upscaled. Too many examples.

It's seriously time for all govts to have the courage to stand up to greedy law using corps. And to stand up to whining first world "quiet Australians" who simply cannot, or refuse to, join the dots. Because they may have to go without something or a bit less of it. For heavens sake what do folk expect regards the difficulty, adaptation & how saving the planet will cost money & lower there swilling at the trough of plenty. Sheesh, now it's going to just basically be playing catch up all the time, with the fact the first world has literally sucked the life out of our planet. Beggar's belief.

Time to pay the piper for 50 years of "she'll be right mate" or it's all just a "hippie conspiracy". Whatever nonsense for political & corporate capitalist abuse of people & their tribal brain.

Please ensure that fracking does not happen in your state & back minister's in other states who want to.
In good faith Karen Guy.

Karen Guy
****
NSW 2480

Guy, Margaret – Friday, 12 August 2022 – 14:55:15

Subject	Stop Origin's Fracking Plans
From	Margaret Guy
Sent	8/12/2022 2:55:15 PM

To the NT Dept of Environment Parks and Water Security,
We do not need new fracking wells which threaten water, cultural heritage and our climate.
Our Federal Government have committed to 43% emissions reduction by 2030.Certainly more fracking would release large amounts of methane a potent greenhouse gas.
We need to invest in more forms of renewable energy.

Margaret Guy
****
NSW 2170

Habicht, Ingeburg – Sunday, 14 August 2022 – 14:33:22

Subject	Stop Origin's fracking plan in the Northern Territory
From	Ingeburg Habicht
Sent	8/14/2022 2:33:22 PM

The Traditional Owners have been staunchly defending their country against Origin for years, please stop Origin's plan of fracking twelve new drills. Other fracking companies will see that there is no luck for them either.

Ingeburg Habicht
****
NSW 2026

Hackett, Linda – Sunday, 14 August 2022 – 21:52:33

Subject	Linda.Shooting.Staar@gmail.com
From	Linda Hackett
Sent	8/14/2022 9:52:33 PM

ONLY INSANE PEOPLE DESTROY THE PRECIOUS WATER TABLE WITH FRACKING.....
Australian people used to respect those chosen to lead this great country of ours, but now the horrific, incessant rape and desecration of our beautiful land is everywhere. We see beautiful ancient forests felled everywhere. We see our water supplies syphoned off for chinese cotton farms. We see corrupt Indian Adani's polluting mine ruining our magnificent Great Barrier Reef, and now we see bloody Origin trying to criminally bypass the wishes of the ORIGINAL PEOPLE OF AUSTRALIA and permanent destroy their water supplies.

IT IS SHEAR MADDNESS. AND FOR WHAT. TO LET A DIRTY ENERGY COMPANY MAKE A BUCK!!!

If you cannot protect our Australian country from greedy profiteers, then you have absolutely to hold ANY position of trust at any level of our Society. The Northern Territory "government" has a long history of treating the ORIGINAL land owners badly. This is well known to the people, and we have heard many sad tales of the treatment of these good folk.

SAY NO TO ORIGINS FRACKING SUBMISSION. WE CAN NO LONGER ALLOW SHORT TERM PROFIT TO RULE ANY GOVERNMENT OFFICIAL IN AUSTRALIA. PLEASE KNOW THAT OUR EYES ARE UPON YOU TO DO THE RIGHT THING. JUST SAY NO.

Thanks for your time.

Linda Ross

Linda Hackett
****
VIC 3186

Haig, Ruth – Saturday, 13 August 2022 – 12:39:38

Subject	Origin must be Stopped.
From	Ruth Haig
Sent	8/13/2022 12:39:38 PM

I address this to Northern Territory Department of Environment, Parks & Water Security.
I am a retired Science teacher, aged 86 and so I taught about the Environment, particularly the whole Australian Environment. I learned about & experienced the Biosphere, the Atmosphere, its composition (CO********* ppm in 1957), the carbon/oxygen cycle, about the intricacies of the Water Cycle, about weather, about soil, about geology, about how everything is interconnected, so what is introduced into a system spreads. I came to value the uniqueness of the Australian ecosystems & my husband & I joined the ACF at its inception. Even before I started teaching I was involved with 1st Nations people and then worked with FACATSI and was part of the action for the 1967 Referendum. I look forward to the Referendum for Constitutional Recognition of a Voice to Parliament. (If Australians responded to the gift of the Uluru Statement from the Heart, we might be able to approach 90% yes. In 1967 it was over 90.)
From the 1980s I have been involved with Climate Change Action as my friend Barry Pittock was one of the first Australian scientists to work on understanding levels of CO2 in the atmosphere in the past, and .
Sadly, a fundamentalist ideology of Globalised Market Forces and of greed has ignored the intricacies of the environment & our dependence on it. An emphasis on solving problems with violence & putting power in the hands of overseas corporations, has taken our heritage, destroyed Aboriginal culture, water supply & purity, in the driest continent on earth, created an Australia with our 1st Nations people the most incarcerated people on earth.
Before Barry Pittock started working on Climate Change Action, (Australia could have been a leader) he was involved in publishing a report by a Quaker Charlotte Meacham of her visit to Aboriginal Communities. It was called "Listen to the Aborigines". That was nearly 50 years ago. We have been very slow on the uptake.
The NT Department of Environment, Parks & Water Security, must listen to the Traditional Owners. Water is our most important resource, along with the Atmosphere and the Soil. They are the basis on which the intracacies of Country depend for 1st Nations & the rest of the Australian polity.
Origin would be trashing all three, in Fracking in NT.
IPCC has said no more fossil fuel development for the sake of humanity into the future. The Australian people spoke at the Federal Election.
Ruth Haig BSc DipEd
2/11-17 Roxy Lane
Kyogle. NSW. 2474.
********* 3378
****

Ruth Haig
****
NSW 2474

Haigh, Linda – Monday, 15 August 2022 – 15:45:28

Subject	Origin's plans to open new fracking drills in the NT
From	Linda Haigh
Sent	8/15/2022 3:45:28 PM

To: NT Dept. of Environment, Parks & Water Security
I am deeply concerned about Origin's Environment Management Plan. As you'll be aware, they propose to fast-track gas production on twelve new fracking wells without a production license.
Of further concern is the 430 million litres of water that they'll require to drill and frack the twelve wells, to be serviced by the Gum Ridge Formation. The 90 million litres of wastewater is proposed to be trucked interstate, with no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
Again, you'll be aware that these are just a very few of the many concerns that are being raised towards this proposal - yet another instance of a corporation propositioning a government department to sanction profit-motive versus environment, climate, Traditional Owners and already-disenfranchised communities.
I request the Department to reject Origin's EMP.

Linda Haigh
****
NSW 2107

Hall, Beth – Saturday, 13 August 2022 – 12:48:22

Subject	Stop Origin's harmful fracking plans
From	Beth Hall
Sent	8/13/2022 12:48:22 PM

It is inconceivable that your government could approve Origin's plans to frack and destroy country., water and climate in the quest for gas in the Northern Territory.
Apart from the irreparable damage to water resources and country, the effects on climate change would be reckless when the IPPC has recommended that no new gas wells be commenced.
Please no not allow these fracking operations to proceed.

Beth Hall
****
QLD 4223

Hall, Deborah – Monday, 15 August 2022 – 12:36:28

Subject	Origin's proposal to open 12 new fracking wells in the NT
From	Deborah Hall
Sent	8/15/2022 12:36:28 PM

Dear Minister, please listen to the Traditional Owners of the country that Origin wants to open wells on; please also consider the risks of fracking to the underground waters of the NT which we all rely on. I don't trust that fracking is safe and if I (and many others are right) the damage will be very long term and widespread. There are great alternatives to opening up new gas wells. Please listen.
kind regards
Deborah Hall.

Deborah Hall
****
NT 0810

Hall, Deborah – Monday, 15 August 2022 – 15:17:23

Subject	Origin Energy's Amungee NW Delineation Program
From	Deborah Hall
Sent	8/15/2022 3:17:23 PM

To Whom it May Concern

Submission on Origin Energy's Amungee NW Delineation Program

I have read about your company's plan for the Amungee NW Delineation Program and am writing to express my concerns for the Territory's environment.

I attended a community consultation as part of the Pepper Inquiry and listened to the discussion about the possibility of fracking in the NT. Since then, I have been hoping that the Government will do as it promised and implement all the recommendations from the Inquiry. I believe the long-term costs to the Territory's environment will far outweigh short term economic benefits if fracking companies make errors.

If the wells are open for much longer than what is usually required to test their potential this will be inconsistent with Pepper's recommendations and the principles laid out for the SREBA. Exploration wells should be open for the minimum time until all relevant requirements for safe production are fully met.

I don't accept your reasoning that selling the gas reduces the emissions from the project. It doesn't change the impact of the gas on the climate and the addition to the NT's emissions.

The assessment of your drilling as detailed in the EMP should include the stygofauna. I believe Origin should firstly monitor, then produce plans for protection of these vital water cleaning species.

There will be environmental risks and costs in your plan to truck 90 million litres of wastewater interstate. Will this be outsourcing pollution? And will you retain responsibility for this water until it is 'cleaned'?

The climate impact of fracking, and this includes exploration and opening new gas wells is well documented and even more apparent than when the Pepper Inquiry considered the industry. Australia, and the NT in particular, have abundant potential for production of renewable energy. Expanding risky production of an energy source that releases greenhouse gases (at least 535,651 tonnes over a 3 year period) seems inconsistent with the imperative to reduce emissions.

The risks to water security, climate and biodiversity of your proposal for the Amungee NW Delineation Program are significant and should be assessed more holistically and comprehensively. It would be in the interests of the community and the environment for this EMP to be referred to the Environment Protection Authority for a full Environmental Impact Statement.

I will appreciate your consideration of my concerns for the present and the future of the Territory and its environment.

Yours sincerely

Deborah Hall

Tiwi

********** <mailto:**********>

M: *********

Hall, Jennifer – Sunday, 14 August 2022 – 21:12:14

Subject	Stop Origins Fracking Plans
From	Jennifer Hall
Sent	8/14/2022 9:12:14 PM

My name is Jennifer Hall I am a Mother and Grandmother from Victoria. I am writing this submission because I care about what is happening to our planet now and in the future also to support The Traditional Owners who once again are being disrespected by Origin who are ignoring their wishes and thousands of years of knowledge about how best to manage and show respect for the land which supports many eco systems, animals, birds and their habitat etc. It makes me angry that all that Fracking!! will be destroying so much. It needs to be stopped now! Origin should be putting their billions of dollars into renewables not destroying our beautiful country and adding to climate change. I am asking The Northern Territory Government to reject Origin's EMP. Jennifer Hall

Jennifer Hall
****
VIC 3081

Hall, Nanette – Thursday, 11 August 2022 – 16:50:15

Subject	Stop Origins Fracking Plans
From	Nanette Hall
Sent	8/11/2022 4:50:15 PM

Please can we have intelligent and open consultation with all parties concerned especially our First Nations People who live in and around these proposed areas. It may look like a barren inhospitable wilderness to city dwellers and large corporations but this is home to so many of our indigenous brothers and sisters. Whatever we do to our land now will have a huge impact for generations to come and clean water has to be our main concern for our dry Continent. I am recently widowed and 84 years old, so deeply concerned for the legacy were handing on our future generations . Thank you, Nanette Hall

Nanette Hall
****
QLD 4211

Hall, Rodney – Saturday, 13 August 2022 – 14:04:31

Subject	Stop Origin's NT fracking plans
From	Rodney Hall
Sent	8/13/2022 2:04:31 PM

Water is a more precious resource than gas.

Rodney Hall
****
VIC 3181

Hall, Ron – Sunday, 14 August 2022 – 19:20:34

Subject	No More Fracking in the Northern Territory
From	Ron Hall
Sent	8/14/2022 7:20:34 PM

As a South Australian who has enjoyed the beauty of the Northern Territory whenever the opportunity has arisen, including a recent journey on the Ghan, it seems so shortsighted to entertain fracking anywhere in such an enchanting region of Australia.

The traditional lands of our First Nations Australians offer a wonderful 40 000 year heritage that represents one of the nation's most valuable resources, in terms of human knowledge and in terms of attracting visitors from across the nation and across the world.

Our First Nations sisters and brothers should have the ultimate say in how their land is used.

Fracking represents not just a serious threat to the environment,
it only offers at best a short term gain, and relies on technology which is becoming dated. Frack is merely driven by profits, not by science or even economics. Only a failed business model is on offer. Costs from the resulting disasters generated by fracking are inevitably assumed by taxpayers and the horrors often confront First Nations communities.

Tourism, especially First Nations tourism for example, stands out as a far more sensible long term option.

Good Northern Territory governments would give first priority to protecting Territorians and the environment and truly look to the future.

Sincerely yours

Ron Hall
23 Melrose Street
Modbury Heights SA 5092

Ron Hall
****
SA 5092

Halpin, Bronwyn – Saturday, 13 August 2022 – 16:38:53

Subject	Stop Origin fracking
From	Bronwyn Halpin
Sent	8/13/2022 4:38:53 PM

Dear Northern Territory Parks,

I am white woman who lives in Melbourne and I care about the land, the water and the indigenous people who live on the lands of this country. I have read about the damage that fracking does to the land and water and do not understand why it is allowed to occur. Big companies looking for profit at the expense of nature is scary and if allowed to happen more and more will follow.

I am asking that the Northern Territory government reject Origin's
request for fracking.

Thank you,
Bronwyn Halpin

bronwyn halpin
****
VIC 3124

Hames, Richard – Thursday, 11 August 2022 – 15:52:19

Subject	Stop Origin's Fracking Plans
From	Richard Hames
Sent	8/11/2022 3:52:19 PM

The Northern Territory department of the Environment.

As you well know Origin Energy plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please use your authority to stop this reckless activity.

Dr. Richard Hames
Centre for the Future

Richard Hames
****
NSW 2036

Hamilton, Lenore – Sunday, 14 August 2022 – 16:45:06

Subject	Fracking in the Northern Territory
From	Lenore Hamilton
Sent	8/14/2022 4:45:06 PM

NO fracking.
Petroleum products are energy sources from the past.
Invest in Renewables and take care of our planet.

You will destry the underground water systems which we depend on to live on this planet.

$$$ is not everything?

Lenore Hamilton
****
VIC 3158

Hamilton, Linda – Sunday, 14 August 2022 – 09:39:08

Subject	STOP Origin's Fracking Plans
From	Linda Hamilton
Sent	8/14/2022 9:39:08 AM

To the Northern Territory Dept. of Environment, Parks and Water Security.
Dear Sir/Madam,

I am writing to you to please reject Origin's plans to open twelve new fracking drills in the Northern Territory.

Why? I strongly believe that if these plans are approved, YOU will be allowing Origin to frack and destroy water, country sacred to its traditional owners, and climate stability as we know it.

Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Please PREVENT this potential disaster!

Yours sincerely,
Linda Hamilton.

Linda Hamilton
****
VIC 3461

Hamilton, Liz – Sunday, 14 August 2022 – 14:42:32

Subject	Please stop Origin's fracking plans
From	Liz Hamilton
Sent	8/14/2022 2:42:32 PM

I am a resident of Coolamon NSW and am writing out of deep concern about Origin's plans to ignore Traditional Owners of Northern Territory land by opening 12 new fracking drills.

Origin proposed twelve new fracking drills threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Given the climate crisis we are now living in, and the respect due to the Traditional Owners and their stewardship of the land, water and air, I urge the NT government to please reject Origin's current proposal, and any future proposals for similar fracking drills by any other company.

Liz Hamilton
****
NSW 2223

Hancock2159, Fay – Friday, 12 August 2022 – 20:26:11

Subject	No fracking
From	Fay Hancock2159
Sent	8/12/2022 8:26:11 PM

No fracking

Fay Hancock2159
****
NSW 2159

Hand, Sandra – Saturday, 13 August 2022 – 16:01:53

Subject	Stop Origins Fracking Plans.
From	Sandra Hand
Sent	8/13/2022 4:01:53 PM

To the, Northern Territory Department of Environment, Parks and Water Security.
I am writing this submission against the plans of Origin Energy (I write from my heart). I an 76 years old and feel very strongly that we have done much wrong to our Traditional Owners and the land they have been allowed to reside upon, it is the thousands of years of connection we cannot possible understand, the special ceremonial grounds, their art works, the womens places, all now is wanted because of what is underneath it. We must call a stop to this greed of large companies, who have no moral capacity to take care of the land they will use for Fracking.
Our democracy is being bought by money and it is time we the public taxpayers stopped subsidising the mining industry and said NO MORE. That is what Fracking is mining for gas and our underground water. Both a finite source of materials.

Please stop this greed and let the Traditional Owners look after the country the First Nations People did so well before our greed took over commonsense.

I remain very sincerely
Sandra Hand
Majors Creek NSW 2622

Sandra Hand
****
NSW 2622

Handley, Nicholas – Thursday, 11 August 2022 – 15:12:05

Subject	Stop Origins Fracking Plans!
From	Nicholas Handley
Sent	8/11/2022 3:12:05 PM

To the NT Department of Environment, Parks and Water Security.
Please stop all plans to frack in the NT, we just can't keep doing this, enough is enough.
Please stop it.
Thank you
Nick

Nicholas Handley
****
VIC 3765

Handley, Sandra – Sunday, 14 August 2022 – 19:08:01

Subject	Please stop fracking now...
From	Sandra Handley
Sent	8/14/2022 7:08:01 PM

Why has fracking been allowed to start again ....will you all never learn fracking is no good for the land the water and nature.... Do you care ?

Sandra Handley
****
NSW 2759

Handley, Suzanne – Friday, 12 August 2022 – 16:49:40

Subject	Stop Origin's fracking plans.
From	Suzanne Handley
Sent	8/12/2022 4:49:40 PM

Northern Territory Department of Environment,
Parks and Water Security

Please stop Origin's reckless fracking plans.
This fracking will undoubtedly destroy country, water, and our climate. Other companies will then want to do the same.
Sink holes are appearing overseas in countries like Turkey that have been doing similar types of things. Our world is going to fall apart. Please think of the future of our country and stop taking everything out of our land until there's nothing left. What will we all do then.
Think, Think, Think, before allowing this to happen. The people who have lived here before white man arrived surely know what's best for all the the land and sea in our beautiful country. Listen to what they have to say and follow their lead. They haven't destroyed the land in the thousands of years they've been living here so why oh why would we just ignore their advice.

Thank you for reading my heartfelt message to you.

Suzanne Handley
****
QLD 4035

Hankinson, Gillian – Sunday, 14 August 2022 – 09:26:06

Subject	A Plea for Common Sense
From	Gillian Hankinson
Sent	8/14/2022 9:26:06 AM

To: The Northern Territory Department of Environment, Parks & Water Security
My Name is Gillian Hankinson & I live in Sydney, a long way away from the Territory. You may ask why I should care about what is happening Re: Origin fracking there? Well the simple answer is that I am afraid. I am scared of companies like yours doing untold amounts of harm to our environment in a relentless time of climate disasters.
Your disregard for the original owners & their rights to a clean & safe environment is a blemish on your reputation.
This is the critical moment when we all need to be fighting to protect the Earth. Please refrain from fracking.

Gillian Hankinson
****
NSW 2073

HANNA, FRAN – Saturday, 13 August 2022 – 18:21:32

Subject	Origin Fracking plans
From	FRAN HANNA
Sent	8/13/2022 6:21:32 PM

Dear NT Government,
It is with the greatest pain that I read that Origin is planning to open further fracking drills in your state despite warnings about the environmental damage that can be
done.
I feel that it is a very dangerous situation and ask that you refuse permission for these drills to go ahead. Every opening like this takes us back into the past. We need to work towards a renewables future.
Thank you.

FRAN HANNA
****
SA 5211

Hanrahan-Tan, Camille – Saturday, 13 August 2022 – 08:32:00

Subject	Origin EMP on EPs 98 & 76 Concerns
From	Camille Hanrahan-Tan
Sent	8/13/2022 8:32:00 AM

Hello,

There are a huge number of people deeply concerned and affected by about Origin Energy's EMP proposal to frack 12 new exploration and appraisal gas wells on the Amungee Mungee and Shenandoah East pastoral stations 50 km east of Daly Waters.
Myself, along with a large number of others around the country and internationally, am strongly opposed to any fracking happening for many reasons. This email outlines the main reasons, mainly that the proposal falls short of the standard required under the Petroleum (Environment) Regulations 2016 ('the Regulations') and I believe it should not be approved. I am asking the Minister to refuse to consider the EMP until the action is referred to the NT EPA for assessment as to whether an Environmental Impact Assessment is required under the Environment Protection Act 2019. This is warranted given the potential significant impact of the plan in the context of cumulative impacts (some which I will outline below). I am appauled at the desception from claims that the impact will be minimal and the guise that it will be of benefit to anyone.

* The fact that Origin want to sell the gas to the McArthur River mine for two years, even though selling gas under an exploration permit is not permitted under NT law. Approving this proposal will create even more ongoing and intense pressure to frack all over the NT, without adequate scrutiny.
* Traditional owners have not given permission for the fracking to occur on their land and for Origin to consider selling the gas without a production licence will be
* The Greenhouse gas emissions are 1.5 times above the annual GHG emissions of the town of Alice Springs

* The claim that selling the gas will reduce the emissions from the project is not true since, under this plan, Origin would keep the wells open for over 5 times longer than they actually need to test the resource, creating a massive carbon footprint of over 2 million tonnes CO2-e.

* Impacts 15 already threatened species by clearing 111 hectares of land and 60km of seismic lines. This includes the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat
* Additionally, there are stygofauna endemic (only found in that area) which will be impacted and as a result, this will impact the ecosystem and the EMP does not even acknowledge this impact at all
* Since the drilling and fracking will go throughout the year, it will coincide with the wet season and therefore the waste water is likely to overflow and contaminate other water sources. This has happened in past projects and is therefore known to be an issue
* 30 million litres of water will be required to drill and frack the 12 wells (equivalent to 172 Olympic swimming pools). This will be taken from the Gum Ridge Formation which is already heavily extracted from for other projects

* Sand will need to be extracted and washed to be used for fracking and that's not included in the process

* 90 million litres of waste water which then need to be trucked away, causing further emissions

Overall, the known impact from fracking to the climate, local biodiversity, and to groundwater is enough to raise serious concerns about this proposal and the sugar-coating by Origin is of particular concern, as it defers attention away from the vital

For these reasons stated above I strongly urge the Environment Minister refuse to consider this EMP and refer this EMP to the Environment Protection Agency under the Environment Protection act for full and thorough assessment.

Thank you for taking the time.

Kind regards,
Camille Hanrahan-Tan
Earlwood NSW, 2206

Hanrahan-Tan, Madeleina – Friday, 12 August 2022 – 08:03:17

Subject	Origin EMP on EPs 98 & 76
From	Madeleina Hanrahan-Tan
Sent	8/12/2022 8:03:17 AM

Hi,

I am writing this email to express my concerns about Origin Energy's EMP and proposal to frack 12 new exploration and appraisal gas wells on the Amungee Mungee and Shenandoah East pastoral stations 50 km east of Daly Waters. I am opposed to any fracking happening for many reasons, mainly that the proposal falls short of the standard required under the Petroleum (Environment) Regulations 2016 ('the Regulations') and I believe it should not be approved. I am asking the Minister to refuse to consider the EMP until the action is referred to the NT EPA for assessment as to whether an Environmental Impact Assessment is required under the Environment Protection Act 2019. This is warranted given the potential significant impact of the plan in the context of cumulative impacts (some which I will outline below). I am appauled at the desception from claims that the impact will be minimal and the guise that it will be of benefit to anyone.

* The fact that Origin want to sell the gas to the McArthur River mine for two years, even though selling gas under an exploration permit is not permitted under NT law. Approving this proposal will create even more ongoing and intense pressure to frack all over the NT, without adequate scrutiny.
* Traditional owners have not given permission for the fracking to occur on their land and for Origin to consider selling the gas without a production licence will be
* The Greenhouse gas emissions are 1.5 times above the annual GHG emissions of the town of Alice Springs

* The claim that selling the gas will reduce the emissions from the project is not true since, under this plan, Origin would keep the wells open for over 5 times longer than they actually need to test the resource, creating a massive carbon footprint of over 2 million tonnes CO2-e.

* Impacts 15 already threatened species by clearing 111 hectares of land and 60km of seismic lines. This includes the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat
* Additionally, there are stygofauna endemic (only found in that area) which will be impacted and as a result, this will impact the ecosystem and the EMP does not even acknowledge this impact at all
* Since the drilling and fracking will go throughout the year, it will coincide with the wet season and therefore the waste water is likely to overflow and contaminate other water sources. This has happened in past projects and is therefore known to be an issue
* 30 million litres of water will be required to drill and frack the 12 wells (equivalent to 172 Olympic swimming pools). This will be taken from the Gum Ridge Formation which is already heavily extracted from for other projects

* Sand will need to be extracted and washed to be used for fracking and that's not included in the process
* 90 million litres of waste water which then need to be trucked away, causing further emissions

Overall, the known impact from fracking to the climate, local biodiversity, and to groundwater is enough to raise serious concerns about this proposal and the sugar-coating by Origin is of particular concern, as it defers attention away from the vital

For these reasons stated above I would recommend that the Environment Minister refuse to consider this EMP and refer this EMP to the Environment Protection Agency under the Environment Protection act for full and thorough assessment.

Thank you for your time.

Kind regards,
Madeleina Hanrahan-Tan
Croydon NSW, 2132 (land of the Wangal people of the Eora nation)

Hansen, David – Sunday, 14 August 2022 – 17:01:33

Subject	Stop Origin's fracking plans.
From	David Hansen
Sent	8/14/2022 5:01:33 PM

In the name of common sense, do NOT allow these damaging procedures to proceed.
Especially for the sake of the Traditional Owners, and the rest of the Australia !

David Hansen
****
VIC 3150

Hansen, Leeson – Thursday, 11 August 2022 – 15:20:18

Subject	Stop Origin Fracking in the NT
From	Leeson Hansen
Sent	8/11/2022 3:20:18 PM

The idea of fracking gas when we know the planet is on the verge of destruction is profit driven madness.
This planet cannot and will not allow corporate masses to continue to drill,mine,break down and destroy the natural land.
The science on the Thwaites Glacier shows that our reckless energy sourcing is starting to show in ways that cannot be ignored.
The human race must stop this reckless and greed driven behaviour before it's too late.
Hope is being entombed by bureaucracy and buried by greed. This isn't a first nation justice argument.
This is all nations and all peoples agreeing with the traditional owners.
Stop paving the way to the end of our species with useless profits and unsustainable practices.

Leeson Hansen
****
QLD 4178

Hansen, Mary-Lou – Sunday, 14 August 2022 – 17:48:17

Subject	Please Stop Origins Fracking Plans
From	Mary-Lou Hansen
Sent	8/14/2022 5:48:17 PM

To: Northern Territory Department of Environment Parks, and Water Security
From: Mary-Lou Hansen of Newtown NSW
I, and I believe most Australians, do not approve of fracking due to the long term environmental damage that is caused. I, and I believe most Australians, are deeply embarrassed by previous atrocities to indigenous culture and heritage by Rio Tinto. We can not allow profit to be prioritised over our precious country any longer.
I am begging whomever it may concern at Northern Territory Department of Environment Parks, and Water Security to reject Origin's EMP.

Sincerely,

Mary-Lou Hansen

Mary-Lou Hansen
****
NSW 2048

Hanson, Ruth – Friday, 12 August 2022 – 23:26:50

Subject	Stop fracking full stop
From	Ruth Hanson
Sent	8/12/2022 11:26:50 PM

To Northern Territory Govt Department of Environment
Do not crack and frack the fragile landscape. I have work in this area I know this land and it's people who do not want fracking wells disturbing the under ground water systems.
This underground water supplies bore water to many locals. It's a stunning landscape and I stand with First nation people whom do not want this fragile land fracked. It's short term profits and short-term energy.
No to fracking in Northern Territory .

ruth hanson
****
VIC 3888

Hardess, Erin – Friday, 12 August 2022 – 19:23:08

Subject	Stop Origins fracking
From	Erin Hardess
Sent	8/12/2022 7:23:08 PM

Hello, My name is Erin and I wish for the Traditional owners of the land to keep their country safe from fracking. Origins plan of testing the gas in the Northern Territory won't help the environment and would still cause damage to the climate, land and water. Even if they were to sell the gas it is still a bad plan as there are better options for energy production without the risk the of water contamination as well as being renewable. Please let the traditional owners keep their safe from frackers like origin.

Erin Hardess
****
VIC 3207

Harding, Kylie – Friday, 12 August 2022 – 10:57:57

Subject	Stop Origin's fracking plans
From	Kylie Harding
Sent	8/12/2022 10:57:57 AM

I have just become aware that Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

I am also aware that Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy Country, water, and our climate, but it would be setting a disturbing precedent for other fracking corporations to do exactly the same.

I implore you, for the sake of Country, our environment, our children and grandchildren, please put a stop to Origin's fracking plans.

Kylie Harding
****
QLD 4207

Hardy-Holden, Judy – Saturday, 13 August 2022 – 15:04:41

Subject	what's fracking got to do with it?
From	Judy Hardy-Holden
Sent	8/13/2022 3:04:41 PM

Only recently has fracking become a disastrous issue in the NT. Why destroy a country that has served its inhabitants for thousands of years with clear air, water, soil, for short-term economic gain.

Governments are supposed to look after ALL the people, not just those who have power, influence, and money. Govern for the majority, not the minority. Climate change will effect those with least power, the most.

Do not allow fracking in the NT.

Judy Hardy-Holden
****
QLD 4562

Harkins, Julie – Sunday, 14 August 2022 – 12:29:33

Subject	Stop Origin's Fracking Disaster from Occ5
From	Julie Harkins
Sent	8/14/2022 12:29:33 PM

Dear NT Government
I am a Tasmanian who is totally against Origin's plans to frack in the NT.
This is madness. We don't need new fossil fuel sources and we don't need to wreck the environment.
Build renewable energy resources instead. Much better for everyone.
Yours sincerely
Julie Harkins

Julie Harkins
****
TAS 7109

Harland, Hilary – Saturday, 13 August 2022 – 20:53:29

Subject	No more Fracking
From	Hilary Harland
Sent	8/13/2022 8:53:29 PM

To the Northern Territory Department of Environment, Lands and Water Security
I am extremely concerned that Fracking in the Norther Territory will not only permanently destroy precious underground water supplies, pollute pristine environmental water catchments and vast areas of traditional land, fracking will also further exacerbate the already catastrophic effects of climate change over Australia and also globally.
There are much cheaper and cleaner energy sources to be promoted in Australia where we can be leaders and sell clean energy to our neighbours too.

Yours sincerely
Hilary Harland

Hilary Harland
****
VIC 3149

Harmey, Frances – Sunday, 14 August 2022 – 17:22:27

Subject	Please reconsider
From	Frances Harmey
Sent	8/14/2022 5:22:27 PM

The time for fracking has passed. It was never good but now we are on the cusp of a fossilfuel-free economy, there is no need for any new fracking and gas projects.

These projects were always too risky to our precious water supply. Water is absolutely essential to human existence. Gas is not. I have received letters from Origin in the past saying that water safety is guaranteed - but it can never been guaranteed as 100 percent safe. I cannot believe that given how many accidents there have been around the world involving mining and the environment. The great artesian basin is too precious a resource to put at risk.

I am a former customer of Origin in NSW and I can say that the mistakes that have been made with my power supply and billing have been disgraceful and mean I could never trust Origin as a company to do the right thing. So many mining companies are evading their taxes and robbing the Australian people, stealing our natural resources.

If Aboriginal people say no, that's good enough for me and it should be good enough for you.

Please stop fracking and turn your ingenuity and people resources to finding renewable ways to power our economy and lifestyle. We are clever and fracking is stupid.

Be part of the solution and you will be admired. Frances Harmey

Frances Harmey
****
NSW 2536

Harnett, Anne – Sunday, 14 August 2022 – 21:11:32

Subject	aharnettcp@gmail.com
From	Anne Harnett
Sent	8/14/2022 9:11:32 PM

Northern Territory Department of water and Security.

Please halt Origin's plan to open fracking well in the territory of Traditional Owners. Fracking is highly dangerous for those doing the exploration work and for people living in that area. Their water will be polluted and worse for generations to come. Their health will be endangered and the costs of reparation work enormous!

You have a once off choice now, please think of generations to come as you reflect on what origin intends to do. What legacy do you want to leave after you have gone?

Thank you
Anne Harnett

Anne Harnett
****

Harper, Frances – Sunday, 14 August 2022 – 06:27:47

Subject	No more fracking
From	Frances Harper
Sent	8/14/2022 6:27:47 AM

Please stop fracking of the planned Origin wells. The risk of destruction to water sytems is bad enough, but our climate can simply not cope with more fossil fuels. At some point we must draw the line. Make that now!

Thank you, Frances

Frances Harper
****
QLD 4552

Harpley, Anna – Thursday, 11 August 2022 – 14:32:38

Subject	Block ORIGIN from risking our ancient aquifers.
From	Anna Harpley
Sent	8/11/2022 2:32:38 PM

To whom it may concern,
FRACKING is a high risk activity anywhere near our precious Artesian Basin.
Insanity in Government and Corporate greed could be the ONLY explanation for giving Origin permission to FRACK and pollute.
NO, NO, NO.
May we bring severe penalty to all of those colluding here.
Sincerely,
Anna Harpley.

Anna Harpley
****
NSW 2784

Harradine, Jessie – Friday, 12 August 2022 – 07:54:34

Subject	Origins fracking plans must stop
From	Jessie Harradine
Sent	8/12/2022 7:54:34 AM

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years. They must not go ahead!

Jessie Harradine
****
NSW 2343

Harris, Cynthia – Sunday, 14 August 2022 – 18:27:42

Subject	No fracking in the Northern Territory, please
From	Cynthia Harris
Sent	8/14/2022 6:27:42 PM

Northern Territory Dept. of Environment, Parks and Water Security,
I am a mature age school teacher horrified at the probable future of the young children I teach if we do not take strong and immediate action to phase out the use of any fossil fuels. Fracking for gas is an extremely dangerous activity, likely to tip the balance against a viable future for youngsters I care about.

There are many reasons to ban fracking. All of these reasons are well supported by science and the wishes of the people most clearly affected by the process. Fracking is proven to destroy sources of clean water - and in Australia, surely it is clear that every drop counts, for humans, other living creatures, and plant life (food and other). Fracking for gas is against the wish of the First Nations people of Australia - people whose rights have long been ignored when big business is concerned. It is surely time for ethical conduct to be shown. And finally, consider the future of a world where MORE gas is produced to cause an increase in the fearful damage to our climate that is already wreaking havoc on communities all over this country, let alone the rest of the planet.

My personal belief is that making money from activities that are hastening the destruction of a habitable planet is the biggest crime one could imagine. I desperately hope that you agree, and I implore you not to allow gas fracking in the unique and beautiful Northern Territory.

Yours sincerely,
Cynthia Harris

Cynthia Harris
****
NSW 2580

Harris, Helen – Friday, 12 August 2022 – 22:06:34

Subject	Please Stop Origins Fracking
From	Helen Harris
Sent	8/12/2022 10:06:34 PM

Please stop the fracking in the NT. Please do not let greed over ride the need to stop Fracking, the need to listen to the Traditional Owners. Please stop this challenge to Australia and the world's long term future. We know sun and wind can provide the energy we need. Ask Origin to start to manufacture renewables and make their money from sustainable sources. If they started manufacturing renewables it will do so much for Australia, jobs, no climate damage. Please think outside the box and push Origin to be good caring Australians. Stop them from damaging the environment and ask them to respect the Traditional Owners, we are all so guilty of the damage done to our Indigenous Australians. Its time to say enough is enough. Origin the money goes outside Australia. Let's look after Australia not multinationals. Please stop Origin.
Yours respectfully, Helen Harris

Helen Harris
****
VIC 3549

Harris, Laraine – Friday, 12 August 2022 – 09:54:32

Subject	Stop Origin's Fracking Plans.
From	Laraine Harris
Sent	8/12/2022 9:54:32 AM

To Northern Territory Department of Environment, Parks and Water Security. I am strongly asking you to reject the plans Origin have to frack and destroy our country, water and climate, and open the way for other fracking corporations to do the same.
Yours sincerely, Laraine Harris.

Laraine Harris
****
VIC 3130

Harris, Paul – Sunday, 14 August 2022 – 19:59:10

Subject	No more Fracking
From	Paul Harris
Sent	8/14/2022 7:59:10 PM

To the Northern Territory Department of Environment, Parks and Water Security.

I am very concerned about Origin's plans for Fracking in the Northern Territory.

There are now numerous calls for NO new Fossil Fuel Projects, with the current heat in Europe adding weight to the argument, so I don't see how such a plan can be approved.

Also the chemicals and techniques used in fracking cause considerable environmental damage, including methane emissions and groundwater contamination, providing another reason the refuse the application.

The Traditional Owners of the affected land are right to be worried by the possible outcomes from Fracking, which will damage the environment that is critical to their survival.

Please reject Origin's EMP

Paul Harris
****
SA 5116

Harrison, Christine – Saturday, 13 August 2022 – 14:37:15

Subject	NO origin NO TO FRACKING
From	Christine Harrison
Sent	8/13/2022 2:37:15 PM

My name is Christine Harrison. Business woman and grandmother. I am outraged and disappointed that a company like Origin would think of such a thing.
Think of your children and their children . NO NO NO
I implore the NT government to say no to Origin EMP
THANK YOU from concerned Christine Harrison

Christine Harrison
****
VIC 3068

Harrison, Paul – Thursday, 11 August 2022 – 14:31:32

Subject	Stop
From	Paul Harrison
Sent	8/11/2022 2:31:32 PM

It all comes down to legacy and vision.
What will be Origins legacy? Destruction of nature and troubled relationships with the indigenous owners of the land, OR, harmonious relationships with nature and people. A vision shared by all for the benefit of all. I know where I stand. Does Origin?
Time will show us the true nature of the decision makers.....

paul Harrison
****
NSW 2099

Hart, Gail – Friday, 12 August 2022 – 08:37:07

Subject	Stop Origin's Fracking plans.
From	Gail Hart
Sent	8/12/2022 8:37:07 AM

To Department of Environment, Northern Territory.
Please stop Origin's plan to frack land in Nirthern Territory. It is a terrible operation and should be stopped. Don't let this company rape the traditional lands.

Gail Hart
****
VIC 3723

Hart, Meg – Monday, 15 August 2022 – 09:17:37

Subject	Stop Orign & ALL fracking
From	Meg Hart
Sent	8/15/2022 9:17:37 AM

The Minister
NT Dept of Parks, Environment & Wildlife
Dear Minister - The future of our children, country & Indigenous culture is in your hands today. Please stop allowing fracking. Australia must take responsibility for all its carbon impacts at home, we cannot just export that harm, if we are to be a responsible global citizen. Please do the right & courageous thing now, Minister!

Meg Hart
****
NSW 2034

Hartman, Yvonne – Friday, 12 August 2022 – 09:20:30

Subject	Please stand up to frackers in the Northern Territory
From	Yvonne Hartman
Sent	8/12/2022 9:20:30 AM

I write as someone whose region in Northern NSW was threatened with the establishment of fracking wells in various locations, including in the Bentley area near Lismore, where I live. The land upon which the wells were to be established at Bentley was (and still is) a beautiful and lush farming area, surrounded by beautiful forests which support important ecosystems. This was to be sacrificed in favour of climate-wrecking gas wells.
Fortunately, the community rose up and vigorously opposed the plans, culminating in the Bentley Blockade, eventually defeating the CSG miners.
I now read that Origin Energy plans to open twelve new wells in the Northern Territory.
In a paper by myself and a colleague published in Coolabah Nos 24 & 25, 2018), we write that "this (fracking) technique involves injecting water, sand and a range of highly toxic chemicals at high pressure to release gas, resulting in the production
of huge amounts of salt water that may contain residues such as heavy metals and radioactive material. This water must then be either stored or treated due to its toxicity.
Further, there are concerns about the escape of emissions of methane and other gases into both the groundwater and the atmosphere" (Hartman & Darab 2014).
Unconventional gas mining also carries the possibility of catastrophic pressure loss resulting from excessive drawdown of the ancient groundwater stored in the Great Artesian Basin
(Independent Expert Scientific Committee on Coal Seam Gas and Large Coal Mining Development 2014, p. 116). In an already dry continent subject to frequent droughts that affect food production, any loss of groundwater is of great concern (Eamus et al. 2015)."
Hence, it has been well established that fracking poses unacceptable threats in a dry continent and should not be used because of the environmental threats it poses. There is also an abundance of evidence of its many harms from the United States, where fracking has been extensively used with catastrophic effects such as pollution of rivers, explosions and fires, and negative effects on the health of people working or living near CSG wells. Yet Origin is persisting in attempting to establish this kind of gas extraction.
Finally, Origin is flouting First Nations people's opposition to the introduction of fracking in the Northern Territory. Surely, if we are truly committed to reconciliation with First Nations people, we should respect their knowledge, their culture and their wishes.
I respectfully submit that the Northern Territory government rejects Origin's plans and commits to rejecting this form of mining now and into the future.

Yvonne Hartman
****
NSW 2480

Harvey, John – Friday, 12 August 2022 – 14:56:54

Subject	Origin Energy and Amungee Mungee
From	John Harvey
Sent	8/12/2022 2:56:54 PM

Dear Sir/Madam,

Origin Energy has, as you will be aware, failed to devise adequate waste-management plans and failed to meet several legal obligations requisite to sale of the gas it plans to obtain by fracking on the Amungee Mungee pastoral station.

Protection of health, human rights, and environment — and, ultimately, responsible government and the rule of law — being at stake in this process, I write to ask you to reject Origin's Environment Management Plan for the Amungee Mungee station as a matter of urgency.

Yours faithfully,

John Harvey

John Harvey
****
ACT 2602

Harvey, Penny – Thursday, 11 August 2022 – 16:46:11

Subject	Please Stop Origin's Fracking Plans
From	Penny Harvey
Sent	8/11/2022 4:46:11 PM

To: The Northern Territory Department of Environment, Parks and Water Security

I live in Sydney and am very concerned about the environment and especially global warming. I feel that this means there should be no more coal, gas or other fossil fuel extraction - and this will help us meet our commitments from the Paris Climate meeting.

This means there should not be any more fracking and gas extraction. Fracking is a dangerous procedure which damages the water supply - and it is also opposed by the Indigenous owners of the land.

This is why I am asking that you please reject the Environmental Management Plan which Origin Energy has submitted to you. Please do not let Origin Energy damage the environment and unleash a huge amount of greenhouse gases in pursuit of profit for their company.

Penny Harvey
****
NSW 2008

Hasselman, Margaret – Saturday, 13 August 2022 – 22:34:02

Subject	Stop Origin's fracking plans
From	Margaret Hasselman
Sent	8/13/2022 10:34:02 PM

Fracking will destroy us ALL: first the people nearby, and eventually our entire planet. This must be stopped!

Margaret Hasselman
****

Haswell, Melissa – Monday, 15 August 2022 – 14:56:22

Subject	submission for the Amungee NW Delineation Program, Origin Energy
From	Melissa Haswell
Sent	8/15/2022 2:56:22 PM

Dear Minister Moss and colleagues,

Professor David Shearman and I have prepared a letter of submission for your information regarding the Origin Energy Amungee NW Delineation Program.

For your convenience, we also include a submission we made in July 2021 to the Senate Environment and Communications References Committee regarding the Federal Register of Legislation on Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021. This has great relevance to the current Amungee proposal and is more fully detailed.

We are currently updating the Senate submission with the plethora of new peer reviewed publications on the impacts of gas extraction and production activities on our environment, climate and health.

We hope that our serious concerns about the proposed development's negative impacts on the climate, environment, biodiversity, health and wellbeing, social licence and the Rights of Aboriginal People summarised in this letter are deeply considered in your decision making.

Many thanks,

kind regards

Melissa Haswell and David Shearman

Melissa Haswell

Professor of Practice in Environmental Wellbeing

Office of the Deputy Vice Chancellor, Indigenous Strategy & Services

John Woolley Building

THE UNIVERSITY OF SYDNEY

M ********* 673

E ********** <https://outlook.office.com/mail/options/mail/**********>

The University of Sydney’s campuses and facilities sit on the ancestral lands of the Gadigal, Gamaraygal, Dharug, Wangal, Darkinyung, Guringgai, Gamilaraay, Barkindji, Bandjalang, Wiradjuri, Darkinyung, Ngunawal, Gureng Gureng and Gagudju peoples, who have for thousands of generations exchanged knowledge for the benefit of all.

I also acknowledge the Jinibara peoples of the Mt. Nebo region upon whose ancestral lands my work is frequently conducted.

Attached Documents

Submission to the

Senate Environment and Communications References Committee to oppose the Federal Register of Legislation on Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021

Professor Melissa Haswell BA, MSc, PhD, DIC
and
Dr David Shearman AM MB, ChB, PhD, FRACP, FRCPE

July 2021

We wish to acknowledge that this work was prepared on the Lands of the Jinabara People (in Queensland) and the Peramangk and Kaurna Peoples (in South Australia). We pay deepest respects to their Elders past, present and emerging.

We also acknowledge the Traditional Custodians of the Lands in regions that are and would be directly affected by the planning drilling activities. We pay deepest respects to their Elders past, present and emerging, reflecting on their loving care and nurturance of these Lands for many tens of thousands of years.

These include the four key clan groups in Borroloola, who are the Garrwa, Yanyuwa, Marra and Gurdanji, where the actual drilling is occurring.

These also include the Peoples of the Beetaloo Basin area, including the Jawoyn, Alawa, Jingili, Walmanpa, Warumungu, Ngandji and Binbinga and others.

These also include the Peoples of the Traditional Lands that are directly downstream from planned drilling activities, including the Mudburra, Garrwa, Yanyuwa and Gurdanji.

We also pay respects to the affected communities in the northern area of the Beetaloo Sub Basin, including Katherine, Barunga, Beswick, Mataranka, Jilkminggan, Minyerri and Ngukurr.

Bios of the Authors

Professor Melissa Haswell BA (Biology), MSc, PhD (Epidemiology), DIC
Melissa Haswell is a Professor of Practice (Environmental Wellbeing) within the Office of the Deputy Vice Chancellor of Indigenous Strategies and Services at the University of Sydney and Professor of Health, Safety and Environment in the School of Public Health and Social Work at Queensland University of Technology. She has a Master of Science (University of North Carolina) and a PhD and Diploma from Imperial College of Science and Technology, University of London. Professor Haswell has taught undergraduate and post-graduate students in medicine, public health, Aboriginal health and environmental health for 25 years at University of Queensland, University of New South Wales, Queensland University of Technology and University of Sydney. Professor Haswell conducts research and has authored over 80 peer-reviewed publications in the fields of Aboriginal and Torres Strait Islander health, infectious disease epidemiology and control, carcinogenesis, environmental toxicology, psychosocial and community empowerment, mental health and social and emotional wellbeing.

Professor David Shearman AM MB, ChB, PhD, FRACP, FRCPE
David Shearman is Emeritus Professor of Medicine at Adelaide University and previously held senior positions at Edinburgh and Yale Universities. He has authored many books on climate change, its science, consequences and democratic and other solutions; he served on the IPCC for two terms on health and scientific sections. He was President of Conservation Council of South Australia and, with the late Professor Tony McMichael, he founded Doctors for the Environment Australia in 2001, serving as Hon Secretary for 16 years. He is author and co-author of several hundred scientific and medical papers and writes frequently for the media. He was awarded an AM for service to medicine and climate change.

This submission was reviewed and its principles endorsed by David Schlosberg, MA PhD, Payne-Scott Professor, Professor of Environmental Politics in the Department of Government and International Relations and Director Sydney Environment Institute, University of Sydney.

Executive Summary

The Final Report of the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory acknowledged that extensive research from the United States and other countries around the world had by 2018 demonstrated that the unconventional gas industry poses significant risks to human health, water, the environment and the stability of our climate.

This **submission adds to our multiple previous submissions** by providing some critical updates to NT Parliament on research published in the last couple of years (2019-2021). These highlight critical improvements of our understanding, and previous underestimation, of the role of unconventional gas mining in adding to human disease, human deaths, social, psychological and mental health disturbance, foetal development errors, air pollution at regional scales, methane emissions contribution to climate change, rates of progression of climate change, and insufficiencies in water and biodiversity protection in Australia.

The NT Inquiry Report led by Justice Pepper that enabled the Beetaloo Instrument, based on their understanding of the evidence at the time, suggested that the acknowledged significant risks from opening the doors to an unconventional gas mining industry in the NT 'could' be controlled by 135 regulations. The decisions that followed the NT Inquiry Report to open those doors were made on these conclusions and an assumption that the words 'could be controlled' would be converted to 'would be controlled' into perpetuity. We question both conclusions and assumptions, the latter a belief not supported by evidence.

Of particular note is the now extensively better understood implications of **ozone pollution** that now adds significantly to existing ozone and PM2.5 levels across much of the United States as a result of the development of their gas basins in Texas and Colorado that share geological, meteorological and human population characteristics. Ground level ozone harms health directly and is also an extremely potent greenhouse gas. Through sophisticated and rigorous modelling using data from 50 peer reviewed publications, these studies estimate that just these two sources of pollution contribute to over 600 deaths every year across the country. This research is critically important to the understanding of what is likely to result from NT gas development – where extreme heat and dry conditions are at least as favourable to ozone formation as those areas researched and where the local Aboriginal populations likely to experience the highest exposures are highly vulnerable. Climate change will further promote ozone production from gas industry emissions in the NT in the years of operation and beyond, through legacy wells and other infrastructure.

This submission reviews some of the many new seminal studies on health impacts associated with gas mining. These add weight to previous research examining contributions of the industry to **increased hospitalisation rates for heart failure, heart attacks, asthma, and increase mortality (death) from cardiovascular and respiratory diseases**. These new studies extend the range of developmental impacts linked to gas mining, which include **lower birth weights and severe birth defects** linked to interference with the brain and nervous system and placement of digestive organs. The peer reviewed literature now contains extensive evidence of psychological and mental health loss as people witness extensive transformation and degradation of deeply held social and environmental values

that support their wellbeing. As previously emphasised, Aboriginal Territorians already experience the **nation's highest inequalities and vulnerabilities** to these health conditions.

The 2018 NT Fracking Report identifies **serious opposition within Aboriginal communities** likely to be directly impacted, essentially connecting this opposition to 'misinformation'. Here the Report missed an opportunity to point out to the communities actual examples of the industry's progression and footprint across the United States and in Canada at a scale which could not have been conceived of in its infancy. Instead, the Report lists multiple Acts and policies in the NT, suggesting that these were sufficient reasons to 'trust us' to be different in remote area circumstances that are very similar, if not more severe. Besides considering the enormous challenges in monitoring a mature oil and gas development, the extinguishment of Wangan and Jagalingou Native Title by Queensland Premier Annastacia Palaszczuk in favour of the Adani development in 2019, and multiple flaws in Native Title legislation highlighted by Australia's first Indigenous Senior Counsel, Barrister Tony McEvoy (Gregoire, 2018) flag **problems with 'trusting' the system and its 135 proposed regulations**.

Our submission extends a severe concern raised in our previous SREBA submission about increased exposure of First Nations women and children to **sexual and physical violence** brought forward in the Canadian Inquiry into Missing and Murdered Indigenous Women and Girls by oil and gas developments. We present similar evidence emerging from the United States. Although poor reporting resulting from both fear and lack of protective services in remote areas seriously hampers this research, recently released analysis of Federal Bureau of Intelligence investigations on violent victimisation statistics specifically in North Dakota's Bakken shale gas region shows increases of 40 to 70%. We see **no assurance from SREBA** or other documentation that the potential for these serious risks to escalate in the NT are being taken seriously, suggesting they will remain unacknowledged and unaddressed.

Finally, our Submission discusses the **serious escalation of changes in climate, water and biodiversity in recent years**, arguing that "times have changed and the crises we face are almost insurmountable". Since 2018, it has become eminently clear that the continued expansion of new gas developments is completely incompatible with Australia's Paris Agreement targets, and even more to achieve the actual speed and intensity of greenhouse gas emissions reductions required to prevent climate disaster. The Australian Medical Association and many health and medical organisations in Australia and globally have declared climate change a health emergency, urging immediate reduction in carbon emissions and transition to renewable energies for domestic and export economies.

On the basis of this evidence and much more, **we strongly oppose** the Federal Register of Legislation on Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021. **We implore NT Parliament to re-evaluate** the decision to progress gas mining in the Beetaloo Basin and other locations in the Northern Territory taking into consideration both previous and new scientific and medical information regarding the multiple harmful impacts of the unconventional gas industry around the world.

Gregoire, P. The bias in the Native Title System: An interview with Barrister Tony McAvoy, MLC. 4 August 2018. Sydney Criminal Lawyers, https://www.sydneycriminallawyers.com.au/blog/the-bias-in-the-native-title-system-an-interview-with-barrister-tony-mcavoy-sc/

Introduction

This Submission adds to many documents we have submitted in an attempt to help the Northern Territory government make the right decision for its people and for the world on gas mining. We have consistently taken the time to compile the rigorous evidence emerging from health research on gas mining to ensure that, when making decisions about its future, **the NT government is provided with clear access to the large body of evidence documenting many serious concerns and losses to health and wellbeing of people, the environment and the climate.**

Critical supporting documents we have authored and provide links to:

- Submission by Haswell and Doctors for the Environment Australia to the NT Fracking Inquiry, 2017 (available at https://frackinginquiry.nt.gov.au/?a=424231; https://frackinginquiry.nt.gov.au/?a=423139).
- Oral Presentation by Haswell to the Inquiry, powerpoint slides (available at https://www.youtube.com/watch?v=jd6kvLLuoSg; https://frackinginquiry.nt.gov.au/?a=445251).
- Additional letters sent to the Chief Minister by Haswell and/or Shearman through Doctors for the Environment Australia with links to new health studies (available at https://frackinginquiry.nt.gov.au/?a=452121 ; https://frackinginquiry.nt.gov.au/?a=484976; https://frackinginquiry.nt.gov.au/?a=457141).
- Updated and highly sourced report by Haswell and Shearman summarising the evidence on health and environmental impacts of gas mining, 2019 (available at https://apo.org.au/node/208281).
- Submission by Shearman and Haswell to the SREBA Draft, 2020 (available at https://www.researchgate.net/publication/349537526_Expert_comment_on_the_Strategic_Regional_Environmental_and_Baseline_Assessment_SREBA_Framework_in_the_NT_Consultation_Draft_Authors_of_this_Review).

As can be seen from these reports, between 2017 and 2019, a significant body of evidence had already accumulated, with over 1500 peer reviewed publications, most of which intensified concerns about potential harms of unconventional gas mining.

Assessment of recent literature, now numbering at least 2170 publications (Repository for Oil and Gas Research, as of 5 July 2021), shows that the main messages in our previous submissions still stand. Evidence of risks and harms to human health, human foetal development, community and ecological wellbeing, water and air quality, land contamination and especially the climate has substantially grown not diminished. As the impacts of continued use of fossil fuels, especially gas, is accelerating the rate of change, the urgency now felt globally to rapidly shift from fossil fuels to clean energy – clearly justifies a substantial rethink of the progression of gas mining in the NT.

We briefly highlight of some of the most important new knowledge in five areas of concern, namely air pollution, health, wellbeing and safety, justice and equality, water, climate and future inhabitability of the NT. These values are seriously threatened by the proposed "Program" in the Beetaloo and in other basins in the NT.

I. Gas mining causes dangerous ozone exposures over vast areas that accelerate human death and agricultural losses.

In previous work reflecting studies up to 2018 (Haswell and Shearman, 2019), we reported:

Chemicals reach the atmosphere from flaring (Figure 3), venting, holding tanks, ponds, compressors and other infrastructure. While initially the focus of most public health concern was on risks to water, the US experience to date has indicated that health risks associated with air pollution are at least as serious to the health of people living nearby as the risks mediated through water contamination (Finkel and Hays, 2013; Brown et al., 2014).

Residents living near gas wells and infrastructure and industry workers may be exposed to air-borne pollutants directly, e.g. through diesel exhaust from extensive truck movements, drilling, compressors and other machinery used in the process, flaring and from gases from the coal seam or shale deposits released during well completion and other phases (Petron et al., 2012; Adgate et al., 2014; Field, Soltis and Murphy, 2014). Some gases form secondary atmospheric pollutants such as ground level ozone.

Other exposure pathways involving inhalation of potentially harmful substances occur through the movement of volatile compounds from contaminated water into the air, and some toxins may return to contaminate soil and water bodies through subsequent rainfall, falling on waterways and livestock pastures.

To this summary, we now add describe important new research that quantifies both the contribution of oil and gas mining to ozone and volatile organic chemical air pollution and predicted numbers of premature human deaths each year as a result.

New important synthesis of evidence of air pollution impacts far from operations

Air pollution is one of the most concerning sources of potential harm to communities in the vicinity of gas and oil developments, both from drilling operations as produced wastewater facilities. The three most concerning pollutants of direct health concern are fine particulate matter (PM2.5) forming secondary organic aerosols, ground level/trophospheric ozone and volatile organic compounds (Fann et al., 2018; Helmig, 2020).

Because of the sparse populations in the Northern Territory, it was widely considered in the conclusions from the NT Fracking inquiry in 2017 that human exposure to air pollution was not a concern, and all information regarding health impacts of air pollutants from the industry were largely dismissed in the final report. However, an extensive analysis of air quality data in relation to oil and natural gas operations in Colorado (Helmig et al., 2020) yielded to very important findings for the Northern Territory that must be considered.

- This study synthesised evidence from 50 studies demonstrating that oil and gas operations contribute significantly to levels of volatile organic compounds (VOCs) and ozone production in the atmosphere forming from VOCs, methane and particulate matter. Ozone, unlike VOCs, is transported in the atmosphere away from gas extraction operations, and daytime peak maximum ozone levels were often

found to be tens of kilometres away. Given the significant harms associated with unsafe levels of ozone, the authors concluded that "*These downwind air quality impacts from O&NG industries should be a strong consideration in the design of monitoring networks and decision-making on regulating existing and new O&NG development in the region"* Helmig, 2020, p 25).

- The study also found levels of ozone pollution from oil and gas operations were sufficiently high to significantly damage ecosystems and agricultural productivity and argued these losses should be quantified and farmers compensated (Helmig, 2020). Global agricultural losses of staple crops to ozone in are estimated at US$14-26 billion per year; hence efforts to reduce ozone formation by reducing methane and nitrogen oxide emissions is also an urgent food security challenge (Emberson, 2020).

- A further in-depth study by Pozzer et al. (2020) examined the specific contribution of oil and gas operations to summer (Figure 3 below) and winter ozone levels, days of exceedances over safe ozone levels (Figure 4 below), as well as estimated excess premature deaths due to exposure to across the entire United States.

The authors estimated that the ozone footprint caused by oil and gas operations is likely to have caused an estimated 320 (298-344; 95% confidence intervals) excess premature deaths per year in the United States (Pozzer et al., 2021). Adding similar estimated numbers of premature deaths linked to fine particulate matter emissions from oil and gas operations (Fann et al., 2018) indicates the industry causes over 600 premature deaths per year.

- Additional studies by Pollack and colleagues (2021) found that oil and gas operations also contributed significantly to benzene, ethane and hexane levels, with concentrations in production regions often far exceeding those in major urban areas.

- A study by Li et al. (2020) added weight to concerns about radioactive particles emitted during unconventional, but not conventional, gas mining with raised concentrations of airborne radioactive particles as far as 20kms downwind of operations. These particles are associated with decreased lung function, increased blood pressure and inflammatory markers.

- Finally, a very recently published article by Francoeur et al. (2021) used an improved fuel-based oil and gas industry technique to reveal that methane, non-methane volatile organic compound and oxides of nitrogen emissions from oil and gas basins are two to three times higher than previous estimates.

This work clarifies once again the substantial, underestimated contribution that natural gas production is making to progression of global warming (from fugitive methane released and from the formation of ozone; both are very potent greenhouse gases) as well as to human disease and death across the United States.

So, what does this mean for the Northern Territory?

This information is extremely relevant to the NT, with a number of essential points.

Firstly, ozone is a seriously harmful pollutant that is formed by a chemical reaction between nitrogen oxides and volatile organic compounds which are both emitted in vast quantities during gas mining. The reaction is increased in warmer temperatures, hence the hot and dry regions of the United States (see maps) are ideal locations for ozone production (Helmig, 2020). The Northern Territory is already a very hot and dry environment, with predicted temperatures increases and longer, hotter heat waves more frequent with climate change. Ozone formation increases an estimated 3-6ppb for each degree in temperature rise (Rasmussen et al., 2012). **We can therefore predict that ozone levels resulting from mature gas mining operations in the NT will significantly accelerate deaths in rising numbers across, the Beetaloo Basin, Central Australia and well beyond.**

Secondly, Aboriginal people already experience a substantially higher mortality rate from respiratory conditions and are likely to be even more affected by increased ozone concentrations in their living environment should gas mining proceed in the Beetaloo Basin and other parts of the NT than predictions used for the general population. **We can therefore predict that ozone levels resulting from mature gas mining operations in the NT will particularly accelerate deaths among Aboriginal people in the Beetaloo Basin, Central Australia and beyond.**

Thirdly, fifty studies were conducted in the United States between 2012 and 2019, showing concerns about ozone formation linked to gas extraction and waste processing activities. Industry practices apparently did not change to protect people from ozone exposures. In fact, during the Trump administration, regulations about to be put in place to capture methane emissions into the atmosphere, which would have simultaneously reduced ozone emissions, were scrapped due to industry pressure. **This synthesis of information only occurred after infrastructure for approximately 56,000 wells were put in place, exposing millions of people to these risks and likely causing thousands of premature deaths.**

In contrast in Australia, almost no studies of air pollution have been done despite mass proliferation of gas wells in Western Queensland, apart from a small handful of comparatively simplistic, non-peer reviewed work funded and conducted by the Gas Industry through the Gas Industry Social and Environment Research Alliance. **It is simply flawed to suggest that the one limited and hastened "SREBA" will be able to match the sophistication of the international research.**

This is one very important example of the enormous burden being placed on the Australian public to host an industry that progressed without heeding these signs. There is a past absence of independent non-gas industry research funding on impacts of gas mining, plus poor compliance monitoring with activities as simple as housing construction in remote areas. The likelihood of funds being placed into independent hands by government sources to do the research and ensure compliance of the industry that ensures the safety of Aboriginal people and pastoralists living near or even tens of kilometres away from oil and gas operations must be recognised as being very low.

We consider these reasons alone to be sufficient to reject the proposed "Program" of using public funds for an industry that will expose people to early death from its air pollution.

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2. Gas mining damages health and wellbeing.

Recent studies further strengthen links between living near unconventional gas operations and heart failure, heart attacks, asthma exacerbations, hospitalisations, lighter babies and birth defects. Scientifically plausible explanations for these links are stress and chemical exposures caused by gas mining activities through air and water.

Our previous reports highlighted with multiple references,

"…accumulating evidence of associations between residence close to gas mining activities and reports of poorer health, such as asthma exacerbations, sinus conditions and migraines, skin rashes, fatigue and headaches and hospitalisations for heart, neurological, respiratory, immune system diseases and some cancers. While most of these studies have been conducted in the US, exploratory hospital-based studies suggest that similar trends may be emerging between regions with and without coal seam gas mining in Queensland, Australia.

Increasingly consistent observations of higher frequencies of negative birth outcomes, such as low birth weight, extreme pre-term delivery, higher risk births and some birth defects, have been reported to occur in pregnancies spent closer (around 2 or 3 km) to gas mining

activities, compared to pregnancies spent further away, or in the same area before commencement of gas mining activities.

Increased levels of stress, depression and sexually transmitted infections, aggression, criminal activity and traffic accidents have also been reported among those living near gas mining. These changes likely reflect psychological and social disturbance among individuals and whole communities. Australian researchers have found that stress and worries about coal seam gas mining may contribute significantly to mental health risks among directly affected farmers" (Haswell and Shearman, 2019).

In the last three years, the evidence linking gas mining to higher death rates from all causes and heart attacks, and the incidence of cancers, heart and respiratory diseases has significantly advanced in the US across many states with diversities of geological, chemical and regulatory conditions. A few of these studies are discussed below.

A landmark study in Oklahoma (Asperis et al., 2021) found that a 1% increase in the number of hydraulically fractured wells leads to a 4.2% reduction in life expectancy among residents of exposed communities, reflecting positive associations between residential proximity to wells and cancer, cardiovascular and respiratory deaths.

McKenzie et al. (2019) observed significant positive associations between intensity of gas development and production near place of residence in Colorado and markers/predictors of cardiovascular disease, including stiffness of the arteries, systolic and diastolic blood pressure and inflammatory chemicals in the blood. Comparing rates of acute myocardial infarctions (heart attacks) and deaths between areas of New York state (where fracking is banned) and Pennsylvania where it has continued, Denham et al (2021) quantified significant increases in hospitalisations among middle aged men and women linked to gas mining intensity. **These authors found that for every 100 wells added per square mile, a 5% increase in heart attack deaths occurred among resident males aged 45 to 50 years old.**

Hospitalisations of patients with severe heart failure were found to increase between two and fourfold at every stage of gas production from pad development, drilling, fracking and production, and to a lesser extent during production phase among patients with less severe disease in Pennsylvania (McAlexander et al., 2020).

Willis et al. (2020) **observed a 59% (confidence intervals 46-73%) increase in the likelihood of hospitalisation for asthma** among children living in zip code areas with intense unconventional gas mining activities compared to those with no drilling activities in Texas. They found this increase occurred after, not before, commencement of drilling and was positively related to production volumes but not with flaring intensity.

The evidence identifying and linking birth defects to mothers' exposure to unconventional gas operations has also increased.

Tang and colleagues (2021) compared the frequency of residence near unconventional gas operations among 52,955 cases with birth defects and over 640,000 births without defects in Texas. This very large study linked significantly higher (up to three times higher)

frequency of residence of near unconventional gas activities among infants born with anencephaly (missing large parts of the brain and skull structure), spina bifida (defective spinal cord), gastroschiasis (where the baby's intestines are located outside the body at birth), aortic valve and pulmonary valve defects (narrowed or blocked) compared with children without birth defects. **One can only imagine the pain and suffering of these infants and their families that appear to be magnified by living in proximity to oil and gas mining – these otherwise hidden outcomes now revealed through multiple studies cannot be ignored – they are part of the cost born by communities.**

Evidence of psychosocial stress and mental health loss has also been accumulating, becoming much more recognised by US researchers, but minimally in Australia. For example, using the Environmental Distress Scale developed by Australian researchers Higginbotham et al (2006), Elser and colleagues (2020) reported significant concerns among a sample of West Texas residents about foul-smelling air, heavy vehicles, noise, vibrations, loss of cultural heritage and environmental damage affecting future generations. Nearly 50% of respondents report symptoms of solastalgia – worries about the loss of clean air, water and scenery (Elser et al., 2020).

For example, Malin (2020) analysed 75 in depth interviews with people living in areas of intensive gas production in Colorado. She reported that the **industrialisation of communities caused people chronic stress, negative mental health outcomes and depression**. Many people spoke in depth about the stress of uncertainty regarding impacts on their health [as verified by research], feelings of powerlessness in the face of extensive environmental change and lack of trust in government regulations and monitoring.

The intensity of drilling seen in multiple locations across the United States is almost impossible to imagine, as shown in the map of gas operations near Fort Collins, Colorado (figure taken from Malin, 2020).

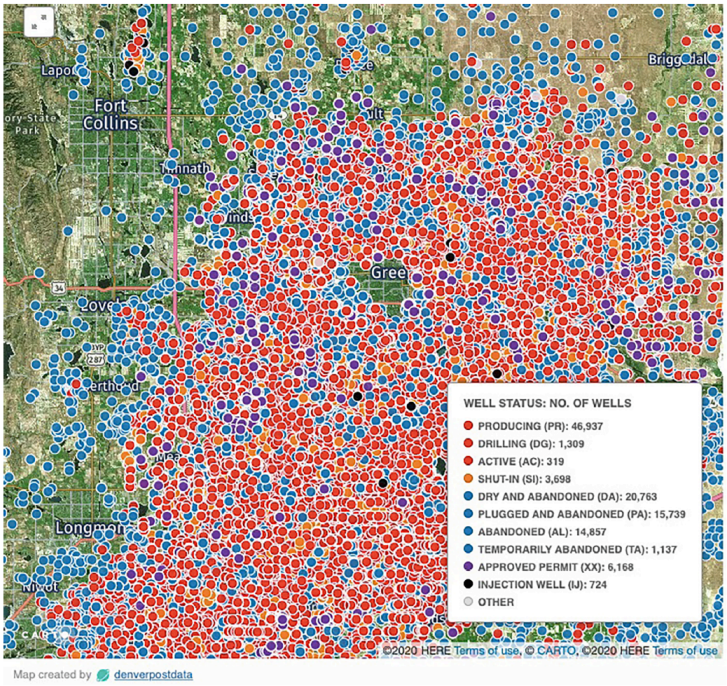

Fig. 1. Map: This map shows the number of wells along Colorado's Front Range in 2017. Greeley can be made out in the center of the map, and Windsor is located northwest of it. The number of operating wells has since increased to over 55,000 across Colorado.

What does this mean for the Northern Territory?

Many Traditional custodians with deep connections to the Land in the Northern Territory, including those of Borroloola within the Beetaloo Basin are already crying out for the protection of the integrity of their Lands. These individuals who have cared for their Country, acknowledged as a person, family and self, already speak of suffering deeply at the thought the loss of integrity and spirit felt in the Land.

People who do not have these thousands of year old connections with Country under threat should deeply consider that the gas industry is the worst nightmare imaginable for these Custodians (https://www.abc.net.au/news/2020-09-25/beetaloo-gas-development-lands-council-asked-to-withdraw/12701878). A good look at the picture above can help those who don't understand the immense expanse and intensity of mature shale gas operations.

It is important that decision makers regarding fracking must make decisions in light of the impacts on current and future generations of gas mining, not as a few exploration wells, but of mature gasfields of this potential magnitude, as it is now a common site in the United States and increasingly in the Darling Downs of Queensland.

The health studies simply add weight to previous evidence – and as the findings are supported again and again by research, it is no longer appropriate to say that the precautionary principle needs to be applied. At this time, it is necessary to accept responsibility for the likelihood that development of this industry in the NT will increase stress and exposure to harmful chemicals that will exacerbate heart disease, heart failure, asthma and other respiratory diseases, traffic-related injuries and deaths, mental illness, birth defects and lower birth weights. Our previous submissions have emphasised the concern that Aboriginal people are already particularly vulnerable to all of these hazards, as well as personal safety as discussed below.

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3. **Gas mining in remote areas where Indigenous People live has left communities in fear of safety, disappearance, extreme sadness, loss and constant stress.**

Since our submission to the draft SREBA framework appears to be completely ignored, we must reiterate once again and emphasise our concern that there is no acknowledgement of the sexual violence and disappearances of women that appear to be associated with the oil and gas industry in Canada. This gives no reassurance that Aboriginal women will be protected in the Northern Territory from similar fears and traumas. We reported:

"Arguably the most horrifying direct health and wellbeing losses that have been associated with the oil and gas industry in the US and Canada are sexual violence and the findings of the Missing and Murdered Women and Girls Inquiry in Canada.

The SREBA framework does not mention, much less provide a convincing argument, that it will prioritise or protect women's safety and security in areas affected by gas mining activities. The conditions existing in remote NT are very similar, if not even more precarious for Aboriginal women compared to their counterparts in with gas and oil development in Canada and the United States.

The SREBA does not mention that shale gas mining in North America has brought man camps of fly-in fly-out workers, men working in stressful and sometimes dangerous conditions, enormous inequality between highly paid workers and local communities, massive increases in truck movements through communities, possibilities for drug trafficking similar to that experienced in rural and remote NSW – and circumstances that have been linked to higher levels of violent crime, sexual assaults, traffic accidents and fear of safety among women and girls".

We referred in our SREBA submission to *"a coalition of Native American and women's organizations filed a submission to the United Nations Expert Mechanism on the Rights of Indigenous Peoples, requesting UN intervention in the epidemic of sexual violence brought on by extreme fossil fuel extraction in the Great Lakes and Great Plains region. This body was convened in New York from April 20 to May 1, 2015, for the Fourteenth Session of the UN Permanent Forum on Indigenous Issues.*

The submission documents the connection between extreme extraction and sexual violence against Native women in the Bakken oil fields of western North Dakota and eastern Montana, and the Tar Sands region of Alberta, Canada, where vast "man camps" of temporary labor have become lawless hubs of violence and human trafficking. It also contextualizes this epidemic within the history of colonization, genocide, and systemic violence against Indigenous peoples, which has always disproportionately affected women and girls.

We also included a passage in "Reclaiming Power and Place: The Final Report of the National Inquiry into Missing and Murdered Indigenous Women and Girls" in Canada in 2019:

The industrial system of resource extraction in Canada is predicated on systems of power and domination. This system is based on the raping and pillaging of Mother Earth as well as violence against women. The two are inextricably linked. With the expansion of extractive industries, not only do we see desecration of the land, we see an increase in violence against women. Rampant sexual violence against women and a variety of social ills result from the influx of transient workers in and around workers' camps.
(Statement by Melina Laboucan Massimo, of the Lubicon Cree First Nation. page 586)

Among many findings, the Report stated:
** There is substantial evidence of a serious problem demonstrated in the correlation between resource extraction and violence against Indigenous women, girls, and 2SLGBTQQIA people. Work camps, or "man camps," associated with the resource extraction industry are implicated in higher rates of violence against Indigenous women at the camps and in the neighbouring communities.*
• This increased rate of violence is largely the result of the migration into the camps of mostly non-Indigenous young men with high salaries and little to no stake in the host Indigenous community.
• Industries that create "boom town" and "man camp" environments are implicated in increased rates of drug and alcohol-related offences, sexual offences, domestic violence, and gang violence, as well as sex industry activities in the host communities. These occurrences disproportionately impact Indigenous women, girls, and 2SLGBTQQIA people.
• The influx of people as a result of "man camps" near or within Indigenous, remote and rural communities further results in stress on already limited social infrastructure, such as policing, health, and mental health services.

A lack of incident reporting and police vigilance regarding missing and harmed women hampers research, however mixed methods research using both qualitative and quantitative approaches are most powerful in documenting trends and linkages. Ruddell et al. (2014) reported higher crime rates and an 18.5% increase in violent crime reported between 2006

and 2012 in oil–impacted communities, and a decrease of 25.6% in a matched sample of counties that had no oil or gas production.

Adding to this information from Canada, Martin et al. (2019) with the National Crime Statistics Exchange (NCSX) examined Federal Bureau of Intelligence data which revealed changes in rates of reported violent victimisation in the Bakken region of North Dakota before and after shale oil mining began, compared to regions outside with no oil or gas activity. The findings are summarised below.

Rate of violent victimization known to law enforcement by type of crime[7]

Type of crime	Bakken Region Percent Change 2006-2012	Non-Bakken Region Percent Change 2006-2012
Unlawful Sexual Contact	44.8	-6.7
Aggravated Assault	70.1	-4.4
Serious Domestic Violence	47.1	11.1
Serious Stranger Violence	47.4	-6.3

University of Colorado at Boulder First Peoples Worldwide (2019) welcomed the release of these data but urged the disaggregation of these and updated data to allow for the likely much high increases in violent victimisation revealed in a range of reports (Martin et al, 2012; Finn et al., 2017; Jayasundara et al., 2018). It is also important to recognise that there is serious underreporting of these crimes, especially among Indigenous people, due in part to mistrust of government agencies and fear of reprisal.

With no attention given to these international reports by the NT government or its instruments regarding need for enhanced protection of Aboriginal women and girls in the areas near gas developments despite very similar circumstances, the conditions for these tragic outcomes are very likely to be replicated in remote NT.

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4. Gas mining damages water security, climate stability and biodiversity

In this section we detail issues and new studies on climate, water and biodiversity which have arisen since the SREBA in 2019. They are all critical for the sustainability of Australia and we hope the Senate committee will regard them as sufficiently compelling to request reconsideration the need for any support or permission for this project to proceed.

Times have changed and the crises we face are almost insurmountable.

The concept of sustainable development is defined by the 1987 Bruntland Commission Report as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs.” Australia’s gas mining development does not fulfil these needs on climate, biodiversity or water security.

The Beetaloo project defies all these life support parameters necessary for the future of Australia. Most of all, it defies international need to urgently reduce methane emissions. Their climate forcing impact may well decide the controllability of climate change during the next few decades, yet we proceed with the Beetaloo project for short term and perceived temporary financial gain.

The overriding issue is the urgent need to cease fossil fuel mining and particularly gas mining. The IEA (2021) has indicated that there should be no new gas or oil projects if a net zero emissions by 2050 are to be attained.

Water security

National and state reports on water security since SREBA in 2019 mostly demonstrate that the utmost protection of our scarce water resources in a rapidly drying climate is fundamental to Australia’s environmental sustainability upon which our economy and health, and continued existence depends. However, some reports reveal that many people who are making decisions and regulations are yet to grasp the magnitude of the problems we must face now.

Water is the key life support system which, along with climate change and biodiversity, will determine if Australia has a sustainable future. This will depend largely on whether humanity can control climate change – which conversely depends on the rapid cessation of any new gas mining developments and replacement of our enormous coal and gas mining export industries with clean energy and other exports that, unlike fossil fuels, are conducive to continued human quality of life, health and survival.

In our submission to the SREBA assessment process, and other previous submissions and reports, we strongly warned the NT government that water is a critical commodity for future survival and wellbeing, and it should not be placed at risk for short term (at best) gain from progressing shale gas mining.

Since then our concerns have increased because of significant inadequacies of national water policy, as evident in the Draft Report "National Water Reform" (2020) by the Productivity Commission (Shearman 2021a).

Inadequacies of current water policy in the States are demonstrated in the recent SA Water Security Statement, Water for Sustainable Growth (2021) which fails to fully consider environmental sustainability in the drive for economic growth, neglects urgent needs of the Aboriginal people and ignores impacts of gas mining in the state's north (Shearman 2021b).

We conclude that national and state water policy is generally inadequate to offer guidance on the principles of water use in the Beetaloo but on our scientific understanding of environmental sustainability, water usage for gas mining in the NT is unacceptable.

Furthermore, our submission to the SREBA review (Shearman and Haswell 2019) detailed numerous inadequacies in national and NT policy which have not been addressed and we summarise below. We ask the Committee to revisit our recommendations, particularly to establish priorities for the use of water from major basins and aquifers, including the Cambrian Limestone Aquifer, which is the major water resource for the Beetaloo Basin.

We found that the SREBA Framework treated water only as a "given" for use in development. The main concern for the sustainability of Australia is the potential contamination of a basin or aquifer with toxic chemicals some of which are long lasting and which could prevent human use of this water for decades either directly or through agricultural production. The dangers from contamination will increase progressively with water spillage due to more climate change related extreme weather events.

Australian industry and regulatory authorities have ignored evidence of increased human diseases associated with residence near unconventional gas operations in the US (see above) from chronic stress and contaminating chemicals. The SREBA review also ignores this issue. Of particular concern is the potential endocrine-disrupting activity of added and naturally occurring chemicals that may be related to increased risk of preterm birth, miscarriage, and birth defects, particularly of the heart. In this regard we ask the Committee to be aware of the inappropriate methodology proposed for health assessment in SREBA.

The introduction section to the health study implies that the scope of health impacts is broad and complex (clearly requiring a Health Impact Assessment approach), but the proposed health study itself appears to be a simplistic and limited Health Risk Assessment.

We urge the Senate Committee to identify this compelling health issue in its report so that the warnings of these harms can be used in future litigation should the need arise.

Finally, there is no mention of volumes of water to be used in a milieu when scarcity is increasing due to climate change and is a critical issue for the sustainability of the region. Clearly the special provision for water take out-with the special provision of the National Water Reform Initiative (2020) will need to be rescinded if Australia is to be sustainable.

We oppose the Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021 particularly on the basis of unacceptable risk to water quantity and quality in the Beetaloo region.

Climate Change

Since the SREBA assessment, scientific research indicates that global heating is accelerating even more rapidly than projected in recent IPCC reports (Loeb et al 2021). Scientific consensus is growing that the changes will be irreversible in human time scales. It is recognised that net zero emissions by 2050 will be neither achievable nor effective without drastic reductions already in place by 2030. Hence scientists are urging immediate action on gas developments, because of their substantial contribution to methane emissions, as their potency in climate forcing is 72 times greater than that of carbon dioxide.

Presently no country has mitigation policies to prevent a rise in temperature of at least 2-3 degrees Celsius. As reported by Mazengarb (2021), Australia was recently singled out in a major United Nations-backed Sustainable Development Solutions report for the absolute poorest performance on climate action amongst the 193 members of the United Nations.

Australian policy of emissions and fossil fuels is thus out of step with the G7, G20 and the UN. Australia with its leadership in coal and gas exports and extremely high per capita emissions is a pariah on the world stage, which is increasingly affecting our trade and international arrangements. The Beetaloo project, if it proceeds, will be viewed as an indication to the world of Australia's intransigence.

Writing as health workers and scientists we ask the Senate Committee to consider one impact of the Beetaloo project above all others. **It will cause preventable deaths.**
This week's Planetary Health Study (2021) finds that more than five million extra deaths a year can be attributed to abnormal hot and cold temperatures arising from the extremes of climate change. The development of the Beetaloo will contribute to these deaths.

We oppose the Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021, particularly on the basis of its direct impact on climate change and its indirect effects on water security and natural capital.

Biodiversity

An abundance of previous and new research confirms beyond reasonable doubt that gas mining is a major accelerator of the rapidly increasing temperature rise and breakdown of planetary climate systems, enhancing the impact of other environmental degradation, causing global biodiversity collapse.

The IPBES Global Assessment (2019) concludes that one million of the world's species are threatened with extinction. Clearly this requires urgent transformative change to human civilisation, meaning a fundamental, system-wide reorganisation across technological, economic and social factors.

The deterioration of the world's biodiversity is so great that eminent economists now accept that it is severely impacting economic growth. The Economist (2021) confirms the link between loss of biodiversity and climate change; and posing equal risks to humanity.

The report "Economics of Biodiversity" by Emeritus Professor Sir Partha Dasgupta presented at the recent G7 meeting recognised biodiversity as natural capital to be accounted for in such measurements as GDP.

The Economist (2021) notes that between 1992 and 2014, the value of the world's produced capital, for example such as machines and buildings, roughly doubled and that of human capital (workers and their skills) rose by 13%. In sharp contrast, the estimated value of global natural capital, including biodiversity and ecological services, declined by nearly 40%. To stop natural capital declining by 2030 while maintaining current growth trends would require growth in efficiency of an impossible 10% a year instead of the current 3.5% p.a.

Furthermore, this devastating loss of natural capital is greater in Australia than in any other developed country. Australian National University's most recent Environmental Explorer Report (2019) rated Australia's performance at 0.8 out of 10 on seven key indicators.

What does this mean for gas mining in the Northern Territory?

As with other major gas developments, such as those in the Surat and Bowen Basins, Northern Territory gas developments would cause multifactorial damage to biodiversity through land clearing, the prolific use of water at multiple stages, chemical contamination of air, land and water and cause loss of agricultural water and native vegetation as detailed in a report from Doctors for the Environment Australia (2019).

Again we reiterate our opposition to the Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021 on the basis of unacceptable risk to natural capital of the Beetaloo region.

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15 August, 2022

To:

Minister Lauren Moss
Department of Environment, Parks and Water Security
Northern Territory Government

Dear Hon Environment Minister Lauren Moss,

Thank you for providing an opportunity for public input into the decision regarding the proposal for Origin Energy's Amungee NW Delineation Program to conduct exploratory drilling and hydraulic fracturing of 12 shale gas wells at four exploration and appraisal sites in the Beetaloo Basin. This letter is a plea to you to reconsider the proposal based on the accumulation of new evidence since the SREBA Framework. We are aware of the momentous decisions placed before you.

We are Professor Melissa Haswell and Emeritus Professor David Shearman, two public health/medical scientists with decades of experience examining the environmental, climate and health impacts of gas and oil developments and in working with Aboriginal and Torres Strait Islander people (Haswell, since 1996). We have provided brief bios at the end of our submission.

We strongly argue that the drilling is premature because the Senate Environment and Communications Inquiry will soon recommence to examine the Federal Register of Legislation on Industry Research and Development (Beetaloo Cooperative Drilling Program) Instrument 2021. The new federal government has indicated the need to review development of gas and coal mines in all states and territories in light of Australia's commitments to international agreements.

We recommend that a determination on the Amungee proposal be postponed until the findings of the Inquiry are handed down. Origin's plans may be significantly impacted by the information provided and decisions provided in the Inquiry.

We predict that the Senate Inquiry will find that developing new gas and oil developments are completely incompatible with the increasing climate change commitments and agreements, and equally important with the many other needs of all Australians, including the Aboriginal people who will be most directly affected. The last three years of extreme droughts, heat waves, extreme fires, extreme post-fire air and water pollution and extreme floods is an experience that has woken up Australians to the reality of the urgency and dire consequences of inaction on climate change.

The Proposal is inconsistent with Action on Climate change

Consistent with the IPCC's Sixth Assessment Mitigation Report released this year, increasing numbers of scientists, ourselves included, understand that the window for action to rapidly decrease emissions and prevent unstoppable climate change is closing rapidly. The IPCC Sixth Assessment report repeats the urgency – and opportunity – particularly to reduce emissions of methane, ground level ozone and other short lived climate pollutants in buying

us more time. Opening up the Beetaloo Basin and other Basins in the Northern Territory would do exactly the opposite - adding enormously to Australia's methane emissions, creating conditions where ground level ozone levels harm human and animal health and agricultural production, as well as the climate and cause loss and suffering to NT residents directly, and all Australians indirectly.

We understand that the Amungee Proposal under consideration would generate over 500,000 tons of direct, scope 1 greenhouse gas emissions in production, and many more (estimated over 2 million tons) of scope 3 emissions released from its combustion. This is not trivial.

The latest Tracking 2 Degree. Quarterly Report Q2/FY2022 released in March reported that Australia emitted almost two times levels recommended by the Climate Change Authority to stay within our 'fare share' of reductions for a 2 degree global outcome. Thus already, without further gas and oil developments in the NT and elsewhere, our emissions are well over safe science-based targets. While electricity sector emissions dropped 2.9% in 2022, largely due to record high renewable energy generation and a 28% reduction in gas power generation, fugitive emissions from mining and industry are expected to rise substantially in the second half of 2022. It is widely accepted that fugitive emissions of methane from gas production activities are substantially under-recorded, but an extremely important contributor to global warming. The report states:

"Annual fugitive emissions from mining and industrial activities are projected to increase by 5.0% over the year-to-March 2022 compared to the year-to-March 2021".

This proposal is inconsistent with protection of Biodiversity and the Environment

The recently released State of the Environment 2021 delivered dire news about the impact of human activity on the precarious state of our nation's natural environment. As stated by CSIRO spokesperson,

"The State of the Environment Report has found that in a rapidly changing climate, with unsustainable development and use of resources, the general outlook for our environment is deteriorating. This is a result of increasing pressures from climate change, habitat loss, invasive species, pollution, and resource extraction".

This proposal includes the direct clearing of land to create 60km of seismic lines and a further 111 hectares of potential habitat for 15 threatened species and poses serious risks of water contamination, especially during the wet season, with associated risks to life.

New developments across the Northern Territory would accelerate all of these negative environmental impacts; transforming some of the most pristine areas of Australia into industrial zones and contributing substantially to even larger overshoots of our carbon budget and accelerating unstoppable.

Therefore, in our view, this determination and the full Senate Inquiry can only conclude that future development in the Beetaloo Basin is wholly undesirable.

This proposal threatens Health and Wellbeing

We also oppose the Origin Energy Amungee NW Delineation Program on many other grounds, particularly because of the negative impacts the Program would bring to the health and wellbeing of Aboriginal and non-Indigenous people in the Northern Territory.

In our numerous previous submissions, we have provided detailed evidence from peer-reviewed publications regarding the many unacceptable health and wellbeing risks and losses associated with gas and oil extraction. These negative impacts were very clearly articulated in our review of the literature in 2021. As we currently undertake an update of our original submission to the Senate Inquiry, we see many new published articles within a single year presenting new data that clearly show that previous concerning uncertainties about the industry's impact are being replaced with certainties and stronger evidence of injustice, hazardous exposures and degradation of health, water resources, environmental integrity, the climate and most recently, higher death rates (all-cause mortality).

Among the many negative health impacts, we particularly call to attention to multiple papers providing new evidence of strong links between pregnancies in proximity to gas industry operations, resulting stress, air and water pollution and subsequent negative birth outcomes. These outcomes include lower average birth weight and shorter gestation, leading to increased incidence of harmful infant conditions of low birth weight and pre-term birth and dangerous maternal conditions, including hypertension, eclampsia and depression.

This proposal harms Aboriginal People's Rights to Care for their Country

Finally, and extremely importantly, we emphasise the enormity of harms of gas and oil developments specifically on the rights and wellbeing of Aboriginal people of the Northern Territory, especially the Traditional Custodians of the Lands where activities are planned.

Decisions to progress gas and oil extraction in the Beetaloo and beyond in the Northern Territory would fly in the face of future partnerships being formed between the Federal government and Aboriginal groups. We are at a very important time, with the nation appearing ready to come together to establish an Aboriginal Voice and constitutional change with strong support from the federal government, but these steps would be sullied by progression of mining in the NT. Gas and oil extraction is rejected by Traditional Owners of the Beetaloo region because of the harm it will cause to the air, water and spiritual and cultural links with the Land as it becomes unrecognisable in the extensive industrialisation that accompanies site preparation, road building, drilling and hydraulic fracturing for gas production, wastewater disposal, gas processing and pipeline and truck transportation.

Minister, you will be well aware that in 2021, the Traditional Owners delivered an open letter to Parliament with over 35,000 signatures.

https://www.nit.com.au/fracking-inquiry-for-beetaloo-basin/

“Our connections to Country have been established and proven time and time again by the white man’s law. We hold the Native Title and Land Rights — a system that is meant to protect and enforce our rights. These have been denied to us,” they wrote.

“For years, we have been told lies by the gas and oil corporations. That there would be no damage to the Country or poison in our waters. These companies won’t even answer the most basic of questions — where they plan to drill or how many wells they want to build.”

The Traditional Owners noted the lack of respect shown to them by gas corporations, saying they have failed to “follow proper process in consultation with us, failed to acquire consent, failed to provide transparency in their dealings with us, and have systemically excluded our voices from the decision-making process for activities on our Country.”

The letter to parliament also noted their feelings regarding the behaviour of the Federal Government. “This Federal Government coming in over the top of what little processes we have undermines our land rights as Northern Territory Traditional Owners,” … The letter also notes their feelings regarding the behaviour of the Federal Government.

“This Federal Government (then the Morrison government) coming in over the top of what little processes we have undermines our land rights as Northern Territory Traditional Owners,” and “The same Government who has never come out to our communities to sit with us or meet with us. They are failing to represent us.”

Our studies detailed in a submission to the Senate on the UN Declaration on the Rights of Indigenous Peoples (UNDRIP) indicates that the behaviour of mining companies is a significant factor damaging reconciliation for it damages Indigenous peoples close relationship to Earth and Nature which is inherent to their health and wellbeing.

The situation was encapsulated in an article in The Conversation about the Beetaloo gas development, which states, “Aboriginal and Torres Strait Islander people have been repeatedly harmed by policies and decisions that drive systematic dispossession, disempowerment, over-incarceration and poverty.” The authors are health professionals who, through decades of study and experience, understand that these transgressions are a significant reason why many of the health objectives are not being met in the Closing the Gap initiative.

Finally, we would like to remind you that in 2009 Australia formally committed our nation to all the principles embedded in the UNDRIP. This was expected to lead to improved understanding and delivery of the spiritual and cultural needs of Aboriginal peoples in relation to their attachment and custodianship of Lands and waters, and in turn benefit the health and wellbeing of their communities. Twelve years later an Australian Human Rights report in 2021 showed that the Australian Government has not taken steps to implement the UNDRIP into law, policy and practice; has not negotiated with Indigenous peoples a National Action Plan to implement the UNDRIP; and has not audited existing laws, policies and practice for compliance with the UNDRIP.

The Australian signing of the Declaration commits the Commonwealth and all states and territories to act. We now have a new Commonwealth government; and we suggest that all jurisdictions quickly reform the ways in which lasting and meaningful partnerships with Aboriginal people can be established. This must include reconsidering some of the NT resource proposals and hopefully the Amungee proposal will be the first to be reconsidered.

This proposal further erodes Social Licence

The nationwide concerns about gas industry activities are reflected in the many costly and divisive legal actions around the nation against their proposals together with the poor social licence of these companies which has come to light with condemnation in the ACCC report and in statements from the federal government. At a local level, social licence has been eroded by the manner and means employed to ensure that developments are able to go ahead, regardless of the losses experienced by sections of the community. The Origin proposal to drill and hydraulically fracture 12 wells can be seen in this light, as a foot in the door to the entire Beetaloo development before reconsiderations by the Senate Committee.

In conclusion, it is very clear that the evidence accumulating over the last 15 years has significantly increased the strength of our argument that proceeding with developments to progress an oil and gas industry based on hydraulic fracturing, such as this proposal by Origin Energy, would add substantially to the existing environmental health harms that contribute to the absolutely unacceptable health and life expectancy gap among Aboriginal people in the NT and cause direct harm to all Australians.

Thank you for your attention.

Best regards

Professor Melissa Haswell MSc, PhD
Office DVC (Indigenous Strategy & Services)
Honorary Professor (School of Geosciences)
University of Sydney

Emeritus Professor David Shearman AM MB, ChB, PhD, FRACP, FRCPE
Adelaide University

Professor Melissa Haswell BA (Biology), MSc, PhD (Epidemiology), DIC

Melissa Haswell is a Professor of Practice (Environmental Wellbeing) within the Office of the Deputy Vice Chancellor of Indigenous Strategies and Services and Honorary Professor in the School of Geosciences at the University of Sydney. She is also a Professor of Health, Safety and Environment in the School of Public Health and Social Work at Queensland University of Technology. Professor Haswell holds a Master of Science (University of North Carolina) and a PhD and Diploma from Imperial College of Science and Technology, University of London. Professor Haswell has taught undergraduate and post-graduate students in medicine, public health, Aboriginal health and environmental health for 25 years at University of Queensland, University of New South Wales, Queensland University of Technology and University of Sydney. Professor Haswell conducts research and has authored over 90 peer-reviewed publications in the fields of Aboriginal and Torres Strait Islander and environmental health, infectious disease epidemiology and control, carcinogenesis, environmental toxicology, psychosocial and community empowerment, mental health and social and emotional wellbeing.

Professor David Shearman AM MB, ChB, PhD, FRACP, FRCPE

David Shearman is Emeritus Professor of Medicine at Adelaide University and previously held senior positions at Edinburgh and Yale Universities. He has authored many books on climate change, its science, consequences and democratic and other solutions; he served on the IPCC for two terms on health and scientific sections. He was President of Conservation Council of South Australia and, with the late Professor Tony McMichael, he founded Doctors for the Environment Australia in 2001, serving as Hon Secretary for 16 years. He is author and co-author of several hundred scientific and medical papers and writes frequently for the media. He was awarded an AM for service to medicine and climate change.

Hatley, Deborah – Friday, 12 August 2022 – 17:59:25

Subject	Stop Origins fracking in NT
From	Deborah Hatley
Sent	8/12/2022 5:59:25 PM

To the Northern Territory department of environment, parks and water security

I am very upset to see that Origin have gone against the traditional owners demands and that there is to be fracking for gas on traditional lands in the NT. Traditional Owners have been staunchly defending their country against Origin for years.

If you the NT Government approve these plans it would pave the way for Origin frack and destroy the country, our life giving water and affect the climate in ways we have not yet seen. This is yet another way our beautiful country will be destroyed by mining.
I ask you to stop Origin's fracking plans right now and for the NT government to consider the planet that we and our children inhabit and will need to inhabit in the years to come. The future is in your hands please make a stand and say no to the fracking companies.

Yours Sincerely
Deborah Hatley

Deborah Hatley
****
NSW 2454

Hatzi, Dennis – Friday, 12 August 2022 – 14:22:37

Subject	This must be stopped
From	Dennis Hatzi
Sent	8/12/2022 2:22:37 PM

We need to take care of our environment pollution must be managed in a manner that brings harmony to our environment

Dennis Hatzi
****
NSW 2287

Hawker, Clay – Friday, 12 August 2022 – 15:22:40

Subject	Fracking is the most irresponsible and idiotic strategy for energy
From	Clay Hawker
Sent	8/12/2022 3:22:40 PM

Please DO NOT frack the NT.

Reckless and ruthless, you can not continue down this avenue. There are other alternatives. Even nuclear is a better idea. It's not just about the carbon footprint, it's the water table too. WATER. You know, that lifeblood that without there would be no life on earth?

Deciding whether or not to poison country is not your choice, nor is it the choice of fracking companies, especially the likes of Origin Energy. It's the choice of the people and we choose NO. Don't agree? Check the polls.

Governments are put in place to give a voice to the people, locals and traditional owners. And when we are talking the fracking and compromising vast water tables, you're also talking a much larger population across northern Australia. We also have the responsibility to be stewards for Australia's iconic animals and ecosystems in general, which in turn allow for a clean and safe environment for our future generations.

Who wants a toxic water table for decades to come? Hands anyone? No? Thought so.

Non starter.

Clay Hawker
****
QLD 4879

Haworth, Gaye – Thursday, 11 August 2022 – 16:30:43

Subject	Stop fracking plans on NT
From	Gaye Haworth
Sent	8/11/2022 4:30:43 PM

Fracking endangers the well being of indigenous people in the NT, water, country and will impact climate which is already stressed. Above all government has a responsibility to protect the indigenous people and their land and water. To do this it is imperative to reject framing proposals.

Gaye Haworth
****
NSW 2132

Hayes, Margaret – Sunday, 14 August 2022 – 17:54:29

Subject	STOP Origin's Fracking Plans
From	Margaret Hayes
Sent	8/14/2022 5:54:29 PM

To Department of Environment,Parks and Water Security.for the attention of Minister Lauren Moss.
I urgently request that you reject the submission from Origin Energy regarding their fracking plans. It is not only the Traditional Owners who strongly object to fracking anywhere in our country. with wells that threaten our climate,our precious water in this driest of continents as well as the cultural heritage of Australia
Origin has not accounted for or addressed the full climate impacts of their plans.
The Pepper Enquiry of 2018 made 135 recommendations in order to mitigate risks of fracking. The moratorium at that time was only to be lifted when All recommendations were implemented. Origin is not waiting for that implementation.
They claim that by selling gas they will reduce emissions. This is untrue.Exploratory wells cannot sell gas.They do not have a
Production license.Furthermore,the entire fracking process will leave a huge carbon footprint.
As recently as May,their exploration and appraisal Manager admitted that they have no plan for toxic wastewater and want to send it interstate,but with no plan for safe disposal there either.
Above all, this fracking will use huge amounts of water we can ill afford,quite apart from polluting the water desperately needed by the local people who live in NT and beyond.
I strongly support the Traditional Owners in defending the health and safety of all Australians, wherever they live in this country and ask you to reject Origin's plans. Thank you for your attention to this urgent matter. Sincerely, Margaret Hayes

Margaret Hayes
****
VIC 3076

Haymann, Nathalie – Sunday, 14 August 2022 – 20:28:35

Subject	Beetaloo Basin shale gas fracking
From	Nathalie Haymann
Sent	8/14/2022 8:28:35 PM

NT Dept. of Environment, Parks and Water Security

To Whom it May Concern:

It is deeply concerning to learn that bankrupt shale gas frackers from the US are borrowing to pay off their US debts as they move on from one environmental disaster to the next pristine area earmarked for destruction in a giant Ponzi scheme. Origin Energy has emerged from the failed Boral company and is dependent on borrowed funds.

NT Beetaloo has been described as the "hottest play on the planet" by Tamboran Resources. Antarctic ice is melting six times faster than in the 1990's but it won't just be the beautiful NT country earmarked for gas fracking profit-making that will be "hot". The Arctic is in a death spiral, with even the conservative International Panel on Climate Change stating that the time for climate action has "almost gone".

Just looking at the issue of water alone, unconventional shale gas fracking wells, besides forcing a cocktail of chemicals deep into the earth under huge pressure, use millions of litres of water for each frack which is then repeated. And repeated. And repeated. Vandalism on a massive scale.

Humanity has destroyed two thirds of the world rainforests, half the coral reefs and 87% of all wetlands. Endangered wild creatures which have inhabited earth for tens of thousands of years, essential to its survival, are disappearing or already extinct. The poles are melting at an accelerating rate. It is crystal clear that a culture based on drawdown has no future and an extractive way of life, including gas fracking, does not have a future and will end in biotic collapse.

As you know, the original caretaker inhabitants of this country lived in physical and spiritual harmony with the land for 65,000 years. On the contrary, the dominant white culture has decimated that land and its first peoples since it first arrived in 1770. Origin, together with others, is planning to extract profits in a venture which together with other such ventures, is now absolutely 100% guaranteed to contribute to the premature end of life on earth.

Yours sincerely,

Nathalie Haymann
****
WA 6516

Hayward, Alan – Thursday, 11 August 2022 – 15:01:33

Subject	No more fracking absolutely
From	Alan Hayward
Sent	8/11/2022 3:01:33 PM

The I PCC as stated code red for humanity so why is it that fossil fuel companies continue to ignore the evidence of global warming and the damage they are doing to the environment by opening new or expanding established fossil fuel projects. Even the IPA has stated the same . We have to go for renewables only.

Alan Hayward
****
NSW 2456

Hayward, Ann – Saturday, 13 August 2022 – 08:11:13

Subject	Stop Origin's fracking plans
From	Ann Hayward
Sent	8/13/2022 8:11:13 AM

Fracking must be banned completely in favour of renewable power.
This procedure contaminates water supplies, damages pasture and ruins lives by causing health issues for the people living in the vicinity.

Ann Hayward
****
VIC 3500

Hazelden, Bruce – Thursday, 11 August 2022 – 17:21:11

Subject	Stop The Fracking Now
From	Bruce Hazelden
Sent	8/11/2022 5:21:11 PM

Northern Territory Government.
You are trying to Destroy Aboriginal lands and the people living there by your acts of violent and unnecessary exploration for Gas deposits. This totally destructive and polluting system is led purely by Profit and no other reason. It is not wanted or needed. STOP IT NOW!

Bruce Hazelden
****
SA 5093

Headifen, Ramona – Monday, 15 August 2022 – 16:30:00

Subject	Please stop fracking - Origin's plan
From	Ramona Headifen
Sent	8/15/2022 4:30:00 PM

My name is Ramona Headifen and I live in Port Melbourne VIC. Although kilometres from the NT, we all share the same planet and I am very concerned about Origin's plans for fracking of 12 new wells.
People and animals the world over are already experiencing the detrimental effects of a warming planet. Not only do we need to reduce our emissions but we need to prevent new projects from polluting.

Please listen to the climate scientists as they are the experts when it comes to this, not corporations which generally are interested only in making a profit.

Time is of the essence. We must turn the tide to cleaner and renewable energy (not fossil fuels, coal and gas) without delay.

Thank you for your consideration and please reject Origin's EMP for now and future generations.

Ramona Headifen
****
VIC 3207

Healy, Kevin – Saturday, 13 August 2022 – 10:19:58

Subject	No more environmental destruction please
From	Kevin Healy
Sent	8/13/2022 10:19:58 AM

Our planet is on its last legs.The damage that we have done is not reversable at this stage .Because this is the only planet we have too live on we must stop all new fossil fuel developments. Especially fracking with all its damaging components.For the good of your kids and all our kids please don't allow ANY fracking in the NT.

Kevin Healy
****
WA 6014

Healy, Trenton – Sunday, 14 August 2022 – 13:46:15

Subject	Fracking in NT
From	Trenton Healy
Sent	8/14/2022 1:46:15 PM

I trust the NT Government to prevent fracking. It is a huge risk to important water sources and this environmental danger is unacceptable as the country and the world battles climate change. Additionally this industry is not wanted by Traditional Owners and would be be disrespectful as the nation moves towards an Indigenous voice to Parliament and probable Treaty. A strong NO from the NT will support the aspirations of most Australians.

trenton Healy
****
WA 6280

Heatwole, Miguel – Friday, 12 August 2022 – 13:40:38

Subject	Submission re Origin Energy's proposed fracking operations
From	Miguel Heatwole
Sent	8/12/2022 1:40:38 PM

Gas mining unconscionably pollutes our environment and leads to carbon dioxide emissions that trigger catastrophic climate change. CO2 emissions warm our atmosphere, thaw frozen tundra and release methane that has the capability to extirpate oxygen-reliant species across the planet, including ourselves. Every effort should be made to hold this destructive activity in check.

I ask that you reject any proposal by Origin Energy's to extract gas in the Northern Territory.

Miguel Heatwole
****
NSW 2038

Heenan, Natasha – Sunday, 14 August 2022 – 14:41:45

Subject	tashellenheenan@gmail.com
From	Natasha Heenan
Sent	8/14/2022 2:41:45 PM

To the Department of Environment, Parks and Water Security,

My name is Tash and I'm a resident of Tascott, a small suburb near Gosford in New South Wales. I'm writing to express my serious concerns with Origin Energy's plans to open twelve new fracking drills in the Northern Territory. This Saturday I will be joining other neighbours on my street to complete volunteer Bush Fire Preparedness training. We are doing this because the increased intensity and likelihood of fatal bushfires due to climate change threatens the safety of our community. Earlier this year we gathered at the local shops and watched as flood waters rose and blocked the only road in and out of our suburb. I'm lucky to live in a beautiful place with a strong community, but the future looks increasingly grim due to climate change. Will we end up with no safe housing like the community in Lismore? Like the community in Mallacoota?

Perhaps if First Nations peoples and their knowledge had been listened to and respected, we wouldn't have built towns in flood prone areas, and we could reduce the severity of bush fires with methods of burning tested and developed over thousands of years. This respect must be extended to include respect for land rights and self determination for First Nations peoples.

Traditional Owners in the Northern Territory are saying no to fracking. They are saying no because Origin's plans threaten all of our communities by locking in more climate change. Listening to them is not just the right thing to do, it's the only way I can imagine a safe and sustainable future for everyone. This is why I'm asking you to please reject Origin's Environment Management Plan.

Yours sincerely,

Natasha Heenan

Natasha Heenan
****
NSW 2250

Heffernan, Maureen – Friday, 12 August 2022 – 17:22:04

Subject	Fracking in Northern Territory
From	Maureen Heffernan
Sent	8/12/2022 5:22:04 PM

My name is Maureen Heffernan. I'm very concerned re Origin's EMP proposal which I've been given to understand is deceitful and dishonest. It seems Origin is presenting its proposal of 12 new wells in NT as "exploratory" with the intention of selling the gas without proper licences. This short-sighted action if accepted would contaminate water, pollute the land and destroy cultural heritage. Enough damage has already been done to the environment. WE NEED TO CHANGE! RENEWABLE ENERGY BEFORE PROFIT 7 DESTRUCTION! Please REJECT ORIGIN'S EMP PROPOSAL! THANK YOU

Maureen Heffernan
****
NSW 2131

Hegarty, Jean – Thursday, 11 August 2022 – 14:35:49

Subject	Reject Origin plans to frack in the Northern Territory
From	Jean Hegarty
Sent	8/11/2022 2:35:49 PM

Northern Territory Department of Environment, Parks and Water Security
Everything that your Department is responsible for safeguarding is at risk from the plans of a money-hungry, polluting, climate changing corporation.
The value of tourism to the NT is far greater than any meagre income derived from Origin's activities.
Traditional owners deserve consideration and active conservation of the precious resources that enable their living in country. Polluted water and destruction of irreplaceable cultural heritage is sure to result from fracking.
Climate change is with us and almost unstoppable and irreversible. Please do not give these one-eyed corporate enterprises permission to lay waste the beautiful Northern Territory!

Jean Hegarty
****
NSW 2446

Hegerty, Luke – Saturday, 13 August 2022 – 15:55:48

Subject	Please keep Australia Australia
From	Luke Hegerty
Sent	8/13/2022 3:55:48 PM

Good morning,

In this time and climate, it is hard to comprehend sometimes the insistance of the Aus Government to persist eagerly actions such as fracking. Especially when it ignores and/or harms this nations Indigenous people, a people the country is fast realising we should be proud of.
With the plummeting support for such actions as fracking, it is hard to see it as anything other than revenue grabing, which is not what the NT government is about, I'm sure.

Please, stop the harm of this countries First Nations people, and this countries iconic land.
Keep Australia the Australia we want, not the mining/fracking nation many politicians and magnates would like.

Thank you for reading
Sincerely, Luke Hegerty

Luke Hegerty
****
QLD 4123

Heggie, Heather – Thursday, 11 August 2022 – 16:39:38

Subject	Don"t frack the Northern Territory
From	Heather Heggie
Sent	8/11/2022 4:39:38 PM

Dear Origin

I grew up in SE of SA where life depends on aquifer water.

The world is desperately short of good water as has been highlighted in Europe and the Middle East and America's, India and Africa. Putting Australia's scarce aquifer water at risk is extremely short sighted as it is needed here and will be needed more and more as the world population expands. Water should be treated like gold in one of the driest countries on earth which also has an abundance of sunshine and wind.

Yours sincerely

Heather Heggie

Heather Heggie
****
SA 5271

Heilbron, Gary – Friday, 12 August 2022 – 06:54:31

Subject	Stop Origin's plans to frack
From	Gary Heilbron
Sent	8/12/2022 6:54:31 AM

Dear Sir/Madam,

If the NT Government approves these plans of Origin to frack, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Gary Heilbron
****
QLD 4218

Heinemann, Mary – Thursday, 11 August 2022 – 15:42:22

Subject	Stop Origin's Fracking Plans NOW
From	Mary Heinemann
Sent	8/11/2022 3:42:22 PM

I am writing because I feel so strongly that by letting Origin go ahead with more fracking sites the Albanese Labor Government will be making the wrong decision.
I feel strongly about damage to the earth, Aboriginal right to preservation of the land (all their land originally), water conservation/protection, wild life extinction, climate change, global warming, old growth forests, and all of these issues have direct links to Origin's plans.
I want the government I votel for to PROTECT our environment and economic future from damage caused by unsustainable mining in all its forms. Do you not realise that we are aware that per capita we are amongst the world's worst polluters. WE have to make changes of a drastic nature. We voted for YOU to do this on our behalf. I agree with the Greens stand on no new exploration and mining without the strictest credentials for doing so in a way which will support the future health of our planet. We have NOT done this as an Australian people for a very crucial decade. I voted for change and hoped that Labor would make a change to the lobbying power of the miners. Please show us that you have promised in good faith to MAKE Drastic Changes to the way Australia has been approaching climate change and our beautiful, priceless environment on this good earth.

Mary Heinemann
****
VIC 3143

Helen, Maureen – Sunday, 14 August 2022 – 14:05:15

Subject	Stop fracking in Northern Territory
From	Maureen Helen
Sent	8/14/2022 2:05:15 PM

Please put an end to fracking. This practice harms the land, environment, water and above all, Aboriginal culture and welfare.
Thank you
Maureen Helen PhD

Maureen Helen
****
WA 6018

Helleren, Wendy – Friday, 12 August 2022 – 15:47:29

Subject	Stop fracking.
From	Wendy Helleren
Sent	8/12/2022 3:47:29 PM

Stop fracking and opening new coal mines.

Wendy Helleren
****
VIC 3016

Hellner, Lee-Ann – Saturday, 13 August 2022 – 15:48:33

Subject	leeannhellner@gmail.com
From	Lee-Ann Hellner
Sent	8/13/2022 3:48:33 PM

As a non scientist I have read extensively on the impact of fracking on the environment on the geology, hydrology and biology of the natural environment. As an outcome of my attention to this issue I am totally opposed to fracking as a source of energy. Fracking is a chemically dirty process that creates a multitude of biohazards and geological issues. Unfortunately governments around the world have a poor record of monitoring the effects of these hazards and an abysmal record responding to community concerns when "things go wrong". In summary I call on the NT government and citizens around the country to reject Origin's proposal to build 12 new fracking sites and accept the responsibility of passing on a clean uncontaminated planet to the next generation. Further to the this I urge the NT government to focus on 'clean and green " projects as source of energy and future jobs in this country. While a transition phase is required to move from dirty energy to clean/jobs energy, injecting thousands of toxins into the environment is not the way to move forward.
Lee-Ann Hellner - former teacher and grandmother to 2 year old.

Lee-ann Hellner
****
NSW 2015

Hempel, Warwick – Sunday, 14 August 2022 – 14:41:32

Subject	Stop the damage that Origin's Fracking will do!
From	Warwick Hempel
Sent	8/14/2022 2:41:32 PM

I am a 77 year old grandfather. I want may grandchildren to be able to breath clean air and not be subjected to all the terrors of climate change. By allowing Origin to carry out their proposed fracking in the Northern Territory you will be putting their futures in danger.

The traditional owners of this land do not want Origin to continue.
They understand that fracking will alter and damage their country.
It will pollute and waste their precious water.

If you approve Origin's plans it will setting a precedent for even more fracking and damage to the environment.

During the fracking process large amounts of methane will be released and this is an even more damaging green house gas than co2. When the gas is eventually burned, where ever it is burned, it will ad even more CO2 into the atmosphere.

For the sake of my grandchildren and all the future generations please do not allow Origin to go forward with their fracking plans in the Northern Territory.

Regards
Warwick Hempel
16 Warren Ave
Avoca Beach
NSW 2251

Warwick Hempel
****
NSW 2251

Hemsley, Liz – Friday, 12 August 2022 – 08:13:01

Subject	Origin! how can you even think about it?!
From	Liz Hemsley
Sent	8/12/2022 8:13:01 AM

Water constitutes around 50% to 60% of the body mass of an average human being. This makes it crucial that we need access to plentiful water supplies in both quantity and quality. The risk of wasting the amount of water available to human beings in an area open to the fracking process (a known guzzler of very large quantities of water) is beyond rational thought. The recorded, wide world results pointing to high risk of contamination of water supplies in areas subject to fracking make it even more crazy to contemplate putting people and animals at risk.

Liz Hemsley
****
WA 6271

Henderson, Carol – Saturday, 13 August 2022 – 08:31:18

Subject	Origin heritage concerns
From	Carol Henderson
Sent	8/13/2022 8:31:18 AM

To the Northern Territory Department of Environment, Parks and Water Security

I am a teacher and horticulturist who has taught non-indigenous children and adults to value our environment and indigenous knowledge.

I am deeply concerned to hear that there is a proposal to create twelve new mines in the Northern Territory. I am even more concerned that these will be fracking operations which have done such damage in other parts of the world. We cannot ignore the science that shows fossil fuel extraction and use contributes to the climate crisis.

Traditional Owners have been defending their country against Origin for years. Please listen to their concerns, commit to climate targets and protect this valuable country. Do not allow fracking to go ahead in the Northern Territory.

Sincerely,
Carol Henderson

Carol Henderson
****
VIC 3012

Henderson, Raeana – Friday, 12 August 2022 – 16:33:06

Subject	STOP ORIGINS FRACKING PLANS
From	Raeana Henderson
Sent	8/12/2022 4:33:06 PM

Dear Northern Territory Department of Environment, Parks and Water Security,

I am opposed to Origin's plan to open fracking drills in the Northern Territory. I am opposed to the use of fracking drills by Origin or any other company and in any state in Australia. These wells damage the environment and need to be stopped.

Raeana Henderson
****
NSW 2300

Henderson, Sue – Thursday, 11 August 2022 – 14:53:38

Subject	Origin’s fracking plan is wrecking the environment
From	Sue Henderson
Sent	8/11/2022 2:53:38 PM

Hello

Please listen to indigenous people. Fracking is dangerous for the environment in so many ways.
These resources are best left out n the ground.

Sue Henderson
****
VIC 3132

Hennessy, Judith – Saturday, 13 August 2022 – 07:36:42

Subject	Stop Fracking in NT Origin has no right to destroy our country!
From	Judith Hennessy
Sent	8/13/2022 7:36:42 AM

Traditional Owners have been staunchly defending their country against Origin for years. Why do private companies have the right to mess up Traditional owners water rights? Why dose Origin have any access to cut and scar the beautiful land it would be setting a horrifying precedent for other fracking corporations to do exactly the same. WHY would this be able to happen when every one knows the planet cannot sustain such practices! Please don't let this happen. Kind regards Judith

Judith Hennessy
****
TAS 7008

Henry, Laurel – Sunday, 14 August 2022 – 12:00:38

Subject	Stop Origins Fracking
From	Laurel Henry
Sent	8/14/2022 12:00:38 PM

Destruction of regional Indigenous area and outflow from that further damages the area and the planet.

Laurel Henry
****
NSW 2034

Henry, Lorna – Saturday, 13 August 2022 – 14:46:25

Subject	Stop fracking!
From	Lorna Henry
Sent	8/13/2022 2:46:25 PM

Our very comfortable way of life, with its need for more and more energy sources, is not more important than the survival of the natural environment. Any plans for fracking are doubly destructive of the environment and the lands of those original inhabitants.
Please do not pass any permissions for fracking in the NT and preserve the beautiful country we have.

Lorna Henry
****
VIC 3145

Hense, Paul – Thursday, 11 August 2022 – 17:54:15

Subject	Origin's fracking in the Norther Territory
From	Paul Hense
Sent	8/11/2022 5:54:15 PM

I have been alerted to the news that Origin is intending to pursue fracking in the Northern Territory. Fracking as you would be aware, involves a number of risk factors to the environment, most of which can never be remediated.
Also, I understand the traditional owners of the land have objections to Origin's plans. The views of Indigenous folk needs be respected. The land was never ceded, and as the High Court in Mabo said, the country was unlawfully taken from Indigenous Nations.

This plan of Origin should not be give Northern Territory approval.

KInd regards

Paul Hense

Paul Hense
****
NSW 2088

Henson, Lindsay – Thursday, 11 August 2022 – 15:35:13

Subject	Stop the F racking
From	Lindsay Henson
Sent	8/11/2022 3:35:13 PM

This has to stop. Destroying the country, water and environment is utter madness. The future of this land, our children's future, the other creatures we share this environment with will be compromised even to extinction. There is no choice this must stop. We have viable options . Will our ignorance and greed be our demise.

Lindsay Henson
****
WA 6330

Heppell, Marion – Friday, 12 August 2022 – 20:11:02

Subject	Stop Origin's and all Fracking Plans
From	Marion Heppell
Sent	8/12/2022 8:11:02 PM

Fracking anywhere is destructive, polluting and the damage it may cause is likely to be irreversible. It is so last century! Traditional Owners have the right to ban it on their land. The climate crisis demands no more pollution any more.
Sincerely,
Marion Heppell

Marion Heppell
****
NSW 2119

Herd, Raylene – Thursday, 11 August 2022 – 14:51:20

Subject	Stop Origin's fracking plans
From	Raylene Herd
Sent	8/11/2022 2:51:20 PM

My name is Raylene Herd. Mother of one. Grandmother of two. Terminal cancer patient and MS survivor.
I feel obliged to write today about Origin's fracking plans in the NT.
I have read a bit about it. From what I have seen it doesn't make sense to keep going with it when the environment effects are going to far out way any short term energy benifits.
If I am truely reading it wrong can you please send me any information you have that would make me think it is a sound idea for my grandchildren's world.
Regards
Raylene Herd
4 Adelaide Street
Kallangur Qld 4503

Raylene Herd
****
QLD 4503

Herman, Paul – Friday, 12 August 2022 – 06:22:24

Subject	No more pollution from Origin
From	Paul Herman
Sent	8/12/2022 6:22:24 AM

Why do we need more Gas pollution. Please say no.

Paul Herman
****
NSW 2486

Hewitt, Doug – Sunday, 14 August 2022 – 15:10:27

Subject	Stop Origin's fracking now
From	Doug Hewitt
Sent	8/14/2022 3:10:27 PM

Our nation cannot afford to allow Origin Energy to continue it's plans for fracking in the Northern Territory. Please put a stop by disallowing it.

With a plea to act in the best interests of our planet
Doug Hewitt AM

Doug Hewitt
****
NSW 2303

Heynatz, Alexandra – Saturday, 13 August 2022 – 18:25:36

Subject	alexandratravelling@gmail.com
From	Alexandra Heynatz
Sent	8/13/2022 6:25:36 PM

reject Origin's plans! it will pave the way for Origin to frack and destroy country, water, and our climate, but it will set a precedent for other fracking corporations to do exactly the same.

People, water, country is more important than this. Who do you serve - the people or your pockets???!!!!!!

Alexandra heynatz
****
NT 0810

Higgins, Col – Saturday, 13 August 2022 – 08:53:18

Subject	Stop fracking
From	Col Higgins
Sent	8/13/2022 8:53:18 AM

The costs to that area and the rest of the world far out strip the benefits.
Don't let Origin in
Sincerely Colin

Col Higgins
****
QLD 4156

Higgins, Mark – Saturday, 13 August 2022 – 14:26:42

Subject	Stop Origin's plans to frack in the NT
From	Mark Higgins
Sent	8/13/2022 2:26:42 PM

Clearly fracking is not in line with climate change action and Origin's plans seem to ignore the fact. Fracking has not had a good track record and Origin could invest in cleaner energy systems, why not wave power off shore?

Mark Higgins
****
VIC 3073

Hill, Alan – Sunday, 14 August 2022 – 17:18:12

Subject	Stop Origins Fracking until satisfactory standards and policing are create
From	Alan Hill
Sent	8/14/2022 5:18:12 PM

To frack invariably a path has to be drilled through the the water table. This has lead to gas leaking into and polluting the water table. Many cases have been documented of gas coming out water wells. If done properly and well and it well policed a secure path can be made through the water table.
Alan Hill

Alan Hill
****
NSW 2631

Hill, Doreen – Friday, 12 August 2022 – 15:22:58

Subject	doreenannehill@gmail.com
From	Doreen Hill
Sent	8/12/2022 3:22:58 PM

I am 100% against fracking on Traditional Owners land and on any land to save all people, animals and plants on our planet.
Stop, stop, stop.
I am 83 so it will not upset my generation but we must think of anybody younger than me!
So sad

Doreen Hill
****
QLD 4163

Hill, Helen – Sunday, 14 August 2022 – 19:12:54

Subject	No fracking by Origin
From	Helen Hill
Sent	8/14/2022 7:12:54 PM

I strongly request that you do all in your power to make sure that there is no fracking in the Northern Territory.
The traditional owners are against it and they have known and looked after their country for at least 60,000 years. I trust their deep knowledge and demand their concerns be listened to.
No one can guarantee that water sources will not be contaminated and that is a risk too enormous to be trifled with.

Helen Hill
****
VIC 3057

Hill, Maureen – Saturday, 13 August 2022 – 12:22:26

Subject	Fracking
From	Maureen Hill
Sent	8/13/2022 12:22:26 PM

Please stop Origin. We need to look after our country, not destroy it.
Sincerely
Maureen Hill

Maureen Hill
****
NSW 2777

Hill, Phil – Sunday, 14 August 2022 – 15:52:36

Subject	Stop Orgin fracking in the NT
From	Phil Hill
Sent	8/14/2022 3:52:36 PM

Origin should not be allowed to frack in the NT. Fracking has unacceptable risks with dire consequences for the environment if pollution enters the water table. Our natural areas need to be protected and with Australia's commitment to zero emissions and the risk to all life in Australia and everywhere from climate change there is no place in the future for fossil fuels.

Phil Hill
****
NSW 2208

Hiller, Amy – Thursday, 11 August 2022 – 20:17:06

Subject	Choose the environment over profit
From	Amy Hiller
Sent	8/11/2022 8:17:06 PM

Dear Northern Territory Department of Environment, Parks and Water Security,

My name is Amy Hiller. 15 years ago I spent four years living and working in the NT and exploring the great escarpments, rivers, and waterfalls that make the territory unique and special. I remain deeply passionate about the NT's glorious natural environment and respect the customs and practices of the Traditional Owners. As a parent I am concerned about Australia's environmental decline and the impacts of rapidly escalating climate change.

I therefore write to you to request that you reject Origin's Environment Management Plan and therefore stop Origin Energy from exploratory fracking in the precious Territory countryside.

The International Energy Agency clearly states that to keep our planet's temperature below 1.5 degrees of warming there cannot be any new fossil fuel projects commence. Thus, Origin's plan to frack gas is at odds with scientific and global energy advice.

Our gorgeous wide brown land needs restoration, not further extraction. I stand behind Traditional Owners who wish to protect country and protect the futures of our children and grandchildren.

I implore you, in a position of power, to make the morally correct choice, not the easy choice: take a stand and block Origin for the betterment of all life on earth.

Your sincerely,
Amy Hiller

Amy Hiller
****
VIC 3101

Hillnoble, Ruth – Friday, 12 August 2022 – 14:54:15

Subject	Cease Origin Energy's fracking plans
From	Ruth Hillnoble
Sent	8/12/2022 2:54:15 PM

As an Origin Energy shareholder I'm appalled by their plans to frack in the Northern Territory.
This is not a case of "Not in my backyard", but one of Not in Anyone's backyard let alone on the lands of Traditional Owners.
It has been established that fracking not only destroys land but also threatens that most precious of resource, water.
It is time for us all to act responsibly in relationship to this land we share, on which we all live.
I am asking you as the people with the power to make these desperately important decisions to act on the part of the people.
Please reject Origin's horrendous plans.
Please reject any fracking plans.

Ruth HillNoble
****
VIC 3678

Hine, Andy – Friday, 12 August 2022 – 14:20:27

Subject	Stop Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters
From	Andy Hine
Sent	8/12/2022 2:20:27 PM

Stop Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters

Andy Hine
****
VIC 3067

Hirsch, Kirk – Saturday, 13 August 2022 – 21:58:41

Subject	No New Fracking Plans For The NT!
From	Kirk S. Hirsch
Sent	8/13/2022 9:58:41 PM

It not only defies traditional owners' wishes, but fracking the ancient geology of the region sets a destructive precedent, ruining aquafers existing since the break-up of Gondwana back in the time of dinosaurs. Once ruined, these subterranean groundwater systems can never be repaired.
Why ruin for quick profit with contamination what can never be undone -- a water cycle that spans many, many epochs of time?

Kirk S. Hirsch
****
NSW 2285

Hoadley, Jack – Monday, 15 August 2022 – 11:04:46

Subject	Stop Origin's Fracking Plans
From	Jack Hoadley
Sent	8/15/2022 11:04:46 AM

To The Northern Territory Department of the Environment

I am Jack Hoadley a resident of Melbourne. Periodically I have been able to visit the NT with my caravan and meet some of the Indigenous residents. I have learned to respect them for their wisdom and gentleness. I write because I do not believe that sufficient attention has been given to the relevant Indigenous communities' voices in the proposal to permit fracking the underground geological layers to release gas for energy.

As with all fracking projects vast quantities of water are required. On the one hand the quantities required threaten the natural flow of the water the local indigenous people depend on for their daily living. On the other hand the chemical processes the industry uses threatens to pollute these precious supplies.

I note that the Government has not implemented the 135 recommendations of the Pepper Inquiry (2018)

Furthermore, during the rest of this decade the world needs to cease its use of fossil fuels for sourcing their energy. By the time this project construction is completed the demand for gas will be greatly diminished and Origen Energy will be looking at a stranded asset - a wasted investment that could have been put into the emerging renewable technologies.

I Urge you to reject Origen Energy's proposal and listen to the wishes of the Indigenous communities.

Jack Hoadley
****
VIC 3122

Hoare, Trev – Saturday, 13 August 2022 – 21:09:13

Subject	No Fracking or gas drilling in the Beetaloo Basin
From	Trev Hoare
Sent	8/13/2022 9:09:13 PM

I write to you today as a concerned citizen of Australia. My name is Trevor Hoare. I am a 71 year old retiree after 23 years as a secondary school science teacher and 20 years as an IT network engineer. I have two adult daughters and two late primary school grandchildren.
I have understood the science and potential of human induced climate heating for at least 25 years and have been politically and socially active on the need for action to reduce green house gas emissions

I have just learned about Origin's plan to open 12 exploratory gas fracking wells near Daly waters. Alongside the concerns of First Nations people who have not given permission and envirinmental concerns for water I have serious concerns that allowing this exploration, and by inference the actual mining of natural gas, is contrary to the science which indicates that the world cannot keep global heating below 2 degrees (we will inevitably pass 1.5 degrees soon) if we allow any new fossil fuel extraction and burning.

Australia cannot meet its 43% GHG reduction targets nor make an equitable contribution to global efforts to stay below 2 degrees of global heating if it allows new coal or gas projects to be started.

You know as well as I do that permitting this action will add to the risk that my children and grandchildren will end up living and likely dying in a global climate and environment apocalypse caused by humans adding even more fossil CO2 to the atmosphere so that temperatures soar past 2 degrees of heating and most global systems become chaotic and beyond Human control.

No amount of State, National or corporate profit is worth more than my grandchildrens' lives. Or your grandchildrens'. At almost 1.5 degrees of heating you and I are now seeing the start of the chaos that global heating will cause as we see wild fires, droughts heat and cold waves, floods and extreme storms, melting glaciers and icecaps. Our children will hopefully live through the early stages of global collapse but my grandchildren and yours if you have any are unlikely to survive the chaos of over 2 degrees of warming if we continute to add fossil CO2 to the atmosphere. Every little bit of CO2 brings the chaos closer and increases its magnitude..

Deciding, in the light of this knowledge, to allow Origin to look for and add even more fossil CO2 to the atmosphere is a gratuitously immoral decision!

I implore you to plumb the depth of your morality and do the right thing and block any expansion of Fossil fuel extraction.

Thank you for your time,

Trev Hoare
****
VIC 3871

Hobbs, Liz – Thursday, 11 August 2022 – 15:14:53

Subject	stop fracking of Origin in NT
From	Liz Hobbs
Sent	8/11/2022 3:14:53 PM

There is a proposal from ORIGIN to increase fracking in NT. This is absolutely not acceptable - we, the public DO NOT WANT THIS!
Please ensure it doesn't happen.
Sincerely
Liz Hobbs

Liz Hobbs
****
SA 5214

Hobson, Elizabeth – Thursday, 11 August 2022 – 16:04:45

Subject	Don't let Origin frack Carpentaria
From	Elizabeth Hobson
Sent	8/11/2022 4:04:45 PM

Dear NT Government,
In 2019 I was fortunate to drive through the Northern Territory from my home in Central Qld where hundreds of kilometres of gas pipe lines have cut 400 metre wide swathes through our bush land, buying the compliance of rural land holders and making windfall profits by selling our resources overseas.

Meanwhile the companies continue to pressure State authorities to allow them to discharge untreated CSG water into our streams, and continue to bring contaminated water to the surface, creating land subsidence on prime agricultural flood plains, and threatening the future of springs that feed the river catchment.
Given how precious the landscapes around the Carpentaria Highway are, and the precarious state of roads during the wet season, I'd hate the local people to have to live as we do with our back roads churned up at ratepayer expense by the volume of gas traffic.
I'd hate them to have to find other water supplies because their soaks and springs are contaminated by CSG water or drained dry from gas extraction.
Worse, in the long run, is the fact that there is no use for or safe long-term disposal method of dealing with the chemicals, euphemistically called 'salts' that will come to the surface.
Origin, and its ilk are short term extractors without a long term commitment to our land or its people.

Finally, the extraction and burning of this fossil fuel, will prevent any chance of keeping global warming within the target range of the Paris agreement.

I implore your government through its regulating department, to reject any EMP that allows for any of this degradation to be foisted on the land and the people of your territory.

YOUrs sincerely,
Elizabeth Hobson
163 Alaire Drive,
Isla, Qld 4719

Elizabeth Hobson
****
QLD 4719

Hocking, John – Saturday, 13 August 2022 – 12:48:53

Subject	Stop Origin's fracking plan
From	John Hocking
Sent	8/13/2022 12:48:53 PM

Northern Territory Department of Environment, Parks and Water Security.

I am appalled to learn that Origin have plans to destroy the land belonging to the Traditional Owners. The poorly advised plan to open 12 fracking drills against the wishes of the real owners, threaten water, culture, heritage and our planet which is screaming out loudly to stop.

This is not only madness, but in my opinion, criminal. Exploiting this unique area for profit before common sense, doesn't pass the pub test. I am demanding this project be rejected and common sense prevails. I have an account with Origin and will be closely watching the outcome, as with a lot more Australians.

john hocking
****
SA 5162

Hodges, Jennifer – Friday, 12 August 2022 – 17:08:53

Subject	Origin's fracking plans…
From	Jennifer Hodges
Sent	8/12/2022 5:08:53 PM

Hi,
fracking doesn't not produce much, given the amount of effort & money involved, & is very very hard on the Earth, who already has too much pressure on her. Please do not go ahead with this dubious plan!

Sincerely,
Jenny H ???????

Jennifer Hodges
****
NSW 2430

Hodges, Lesley – Monday, 15 August 2022 – 10:44:16

Subject	Submission on Origin Energy B2 Pty Ltd EMP for Amungee NW Delineation Program
From	Lesley Hodges
Sent	8/15/2022 10:44:16 AM

To whom it may concern

Please find attached my submission to the Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program

Could you please acknowledge receipt of this submission

Thank you

Lesley Hodges

Attached Documents

Submission on Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program

The subject application is seriously flawed and the NT Government's ability to assess this Environmental Management Plan at this time is also seriously flawed because:

- it would enable Origin Energy to sell fracked gas without a production licence
- this could compromise any proper environmental and economic assessment of Origin being permitted to further develop these wells for full production
- the proposal would have a very high environmental impact and therefore should be subject to rigorous environmental assessment under the NT *Environment Protection Act 2019* (EP Act)
- the proposal must also be assessed *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) due to impacts on Matters of National Environmental Significance including eg impacts on water (the so-called water trigger) and nationally listed threatened species (Gouldian Finch and possibly others)
- despite the fact that the proposal would emit an estimated 535,651 CO_2e tonnes of GHG gas emissions there is no proper assessment of climate impacts which is required to ensure that the NT government adheres to commitments it made when reversing the moratorium on fracking and also to ensure that it does not conflict with the Federal Government's legislative commitment to a 43% national C emissions target.
- despite the fact that the proposal would result in an unknown but very large amount of Scope 3 emissions, the assessment of climate impacts does not include a proper assessment of Scope 3 emissions from this proposal (this includes trucking waste water).
- the contention by Origin that its proposal to sell its gas rather than flare it would reduce its emissions is false (and indeed preposterous) because these emissions would be still produced as a result of this proposal even if not by Origin burning the gas themselves.
- the proposal includes fracking in the wet season but does highlight or consider the environmentally disastrous impacts of likely flooding, which would result in toxic waste water entering the environment.
- the proposal does not consider the environmental and GHG emissions impacts of either trucking nor dumping its toxic waste water interstate
- Origin should not be permitted to keep these exploration wells open for more than the minimum time to find out of there is gas. Applying for an operational window of up to 730 days could be considered seeking approval for gas by the back door and certainly without due process.
- the process of assessing this application at this stage contravenes key recommendations of the Pepper Scientific Inquiry into Hydraulic Fracturing in the Northern Territory – which the NT Government accepted in full before reversing the moratorium on fracking in the NT.

- For example, assessing this application at this stage, contravenes the NT Government's agreement to complete its scientific baseline assessment of the region and water allocation plans, and other critical Pepper inquiry recommendations before the industry is allowed to go ahead.

For these reasons, I respectively request that the NT Government:

- immediately stops the assessment of this Environmental Management Plan on the grounds that scale and likely impacts of this proposal mean that the EMP is not due process, and that approving this proposal would contravene the NT Government's commitment to accept all of the Pepper Inquiry report recommendations.
- require the proponent, Origin Energy, to carry out a proper Environmental Assessment and development submission process under both NT and Federal environmental laws if it wishes to continue to proceed with this proposal, in the context of the international and Australian national laws and agreements on climate change and the clear climate and environmental risks inherent in this proposal.
- advise Origin Energy that, even following proper Environmental Assessment, any approvals of this proposal would not be able to occur until the NT Government has completed the requirements of the Pepper Report.

Reference

Pepper Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, 2018
https://frackinginquiry.nt.gov.au/inquiry-reports/final-report

Lesley Hodges BSc (Hons) Masters of Management
15 August 2022

Hodgson-Day, Charlie – Friday, 12 August 2022 – 11:04:04

Subject	Prevent Origins Refless Fracking
From	Charlie Hodgson-Day
Sent	8/12/2022 11:04:04 AM

Hello, I am Charlie, a deeply concerned resident of Brisbane demanding that Origin Energy's plans be stopped. We have heard from science for decades that fossil fuels need to be phased out, with fracking being especially destructive. We have seen first-hand the results of ignoring this, with floods and drought tearing through Australia and the world. It therefore disapoints me that the Northern Territory Government is considering a destructive plan by Origin to open 12 fracking wells, despite wrecking water, Indgenous Culture, and climate. If it is indeed the duty of a government to help it's people, these plans must be disconsidered. I hope for you to think about this and reject Origin Energy's wells. Sincerely,

Charlie

Charlie Hodgson-Day
****
QLD 4151

Hoekstra, F – Friday, 12 August 2022 – 14:17:57

Subject	Fracking in the NT
From	F J Hoekstra
Sent	8/12/2022 2:17:57 PM

I'm not sure whether I am addressing the right people, as I don't often do this sort of thing. Please pass this on to those who are considering Origin's application to drill fracking wells.

It is hard to believe that there are still polluters who haven't got the message that we are facing an existential crisis. This will probably not affect me too much, as I am very much in the latter half of my life. But this earth whose beauty and wonder I enjoyed as a child is very much something I want my grandchildren (currently three!) and their children to also enjoy.

As the science clearly shows, we should not allow any further production of gas (and coal), especially if it's only so that fossil fuel companies can continue to make profits. For too long, that has been the basis on which decisions about these things have been made. We now need to make our decisions, you need to make your decisions, based on the needs of the future, not the past.

We also need to take into account the wishes of the Indigenous caretakers of this land. It is evident that this unnecessary fracking will impact heavily what they have cared for for tens of thousands of years.

We don't need this gas production. There is sufficient in what is currently being produced to see out Australia's needs until renewable energy becomes the standard.

The decisions are yours, but please make them ones you can look back on and say "I made a difference. I protected this land for those who are coming after me."

Yours sincerely,

F J Hoekstra

F J Hoekstra
****
NSW 2780

Hogarth, Willa – Saturday, 13 August 2022 – 17:22:18

Subject	Origin plans for fracking in the Northern Territory
From	Willa Hogarth
Sent	8/13/2022 5:22:18 PM

Northern Territory Department of Environment
Parks and Water Security

Dear Sir/Madam

I am writing a submission to you regarding Origin lodgement of an EMP to the Northern Territory Government applying to drill and frack 12 new wells in the Northern Territory.

I urge you to reject this EMP for the following reasons:

1) All the recommendations from the Pepper Inquiry have not been implemented. The Northern Territory's moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

2) They will use huge amounts of precious water. They need 430 million litres of water to drill and frack the twelve wells in their proposal. And they have no plan to manage the waste water apart from 'trucking it interstate'. They also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

3) They are planning to sell the gas from this proposal – even though they don't have a production license to do so and more specifically, without a complete scientific baseline assessment of the region (SREBA).

4) Full climate impacts have not been addressed. 535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal.

If this EMP is approved it will set a shocking precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, and undermine the integrity of our regulatory system.

I again urge you very strongly to reject Origin's EMP

Sincerely
Willa Hogarth
****

Willa Hogarth
****
NSW 2450

Holberton, Martine – Friday, 12 August 2022 – 17:47:52

Subject	No more new gas. You are killing us and our home. Planet over profit!
From	Martine Holberton
Sent	8/12/2022 5:47:52 PM

Attention Northern Territory Department of Environment, Parks and Water Security.

NOT IN MY NAME.

We are killing the planet and within my generation (I am 34) I will bear witness to a mountain of catastrophes due to climate warming. We cannot delay any longer. We must try to slow anthropogenic climate change. To do that, we CANNOT let Origin frack the NT. It's absolutely nuts that I have to write such a submission in 2022, but I write too many of these.

I am a tax payer. I am an Australian citizen. I am a custodian of planet earth. I stand with First Nations people of this country to protect what's left of the environment - such a precious and unique environment in Australia. I know times will be tough financially as we transition to clean energy, however times are going to be much tougher if we continue to emit, pollute our oxygen with methane, the most potent greenhouse gas.

I beg you to say NO to Origin. And I ask, when you respond to my submission:
1. WHY do we need 12 new fracking wells when we are on the brink of climate collapse?
2. WHY are we not listening to the longest living civilization on the planet and protecting country? I STAND WITH TRADITIONAL OWNERS.
3. If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Will you be able to live with yourself knowing you are denying your children and their children a future? Not only that, but you will be killing precious biodiversity - the very fibre that weaves our existence into a reality???

Enough already.

Martine Holberton
****
VIC 3070

Holding, Anne – Sunday, 14 August 2022 – 18:04:00

Subject	NO MORE OIL GAS COAL
From	Anne Holding
Sent	8/14/2022 6:04:00 PM

for our planets health now do not frack for the planets future health do not frack !!! do not keep bulldozing your way onto indigenous lands

work on renewables with this land's indigenous people

work on regenerating this land for everyone ... youll get paid in carbon credits

to NT dept of land and water

from a citizen who loves the whole planet

Anne Holding
****
VIC 3912

Hole, Jennifer – Saturday, 13 August 2022 – 18:02:04

Subject	Don't let Origin Energy frack in the Northern Territory
From	Jennifer Hole
Sent	8/13/2022 6:02:04 PM

To the Northern Territory Department of Environment, Parks and Water Security.

I am really concerned that despite the risks to water, climate and cultural heritage, the Northern Territory Government might still approve twelve new fracking wells.

The Traditional Owners are very much against these plans and their wishes must be respected.

Also, for the sake of the climate, fossil fuels should be left in the ground.

Jennifer Hole
****
WA 6155

Holmes, Craig – Friday, 12 August 2022 – 16:07:20

Subject	Stop Origin! NO FRACKING for GAS!
From	Craig Holmes
Sent	8/12/2022 4:07:20 PM

Please save our country from the destruction of fracking, it impacts our climate, water, and indigenous communities, it cannot be allowed.

Say NO to Origin, no means no! Our indigenous people do not want their land destroyed by Origin. Their land is connected to them through many thousands of years of occupation and they are caretakers of their land. Origin cannot be allowed to destroy this connection.

No they can't mine for gas as it produces harmful CO2, which is creating global warming which we are all feeling the effects of. No more gas! Please choose a renewable power source alternative that produces no green house gas.

Thank You for you consideration,
Craig

Craig Holmes
****
QLD 4573

Holmes, Jaqui – Sunday, 14 August 2022 – 10:43:37

Subject	Stop Origin Fracking in the Northern Territory
From	Jaqui Holmes
Sent	8/14/2022 10:43:37 AM

To the Northern Territory Department of Environment, Parks and Water Security,
I am writing a submission against Origin (or anyone else) wanting to frack for gas. I think we must stop being destructive of our environment which l have sadly witnessed over my life. Far too many political decisions have been made in favour of financial situations. This has to stop. The environment is a priceless gift to us and we need to protect it or perish.
I have seen documentaries and read many articles on the process and results of fracking. It is clear that fracking is one of the worst ways to produce an energy. The chemicals used are poisonous, the amount of water required is horrendous and the result to the land and environment is a caustic death.
Hardly any mining companies ever restore the land and environment where they have been! Why do we allow this?
The Traditional Custodians do not want the land poisoned. We need to see the sense in this and respect their intelligence.
I believe Origin plans to sell gas from the 12 exploratory mines which is unlawful as they wont have a license - how can this be?
In addition the Pepper Inquiry has 135 recommendations that need to be addressed before exploring for fracking can begin and this has not happened. Without a waste water plan or a hasty decision to truck it interstate causing more issues, it is obvious Origin are not proceeding in a legal, respectful manner. The emissions will be horrendous which we cannot afford with the planet so obviously sliding into change.
This is a very serious issue and if we dont make the right decisions now our future looks awful. Far too many bad decisions have led us to this point. There are and will be much better alternatives for energy, we need to put our minds to those and stop the awful deadly path of fracking. You see the consequences dont you?

In hope for a much better future,
Jaqui Holmes

Jaqui Holmes
****
NSW 2575

Holmes, Kieran – Thursday, 11 August 2022 – 20:22:55

Subject	Reject Origin's Fracking Proposals
From	Kieran Holmes
Sent	8/11/2022 8:22:55 PM

To the Northern Territory Department of Environment, Parks and Water Authority,

I am an Australian citizen, a chemical engineer and a parent. I am writing to you in strong opposition to Origin Energy's proposed twelve new exploration fracking wells in the Northern Territory. I firmly believe fracking is a poorly understood and highly destructive method of CSG extraction and should be discontinued to protect Australia for our children.

Briefly, fracking wells do an incredible amount of harm to the environment: negatively impacting local air quality through well blow outs and leaking (QLD study showed that ~2% of well heads leak); contaminating underground aquifers and local water supplies with toxic chemicals as a result of the extreme pressures required to cause the hydraulic fracturing (15 to 34 million liters of fractionation fluid per event and a well is fractures up to 12 times in its life); and greatly contributing to the accumulation of greenhouse gasses from methane vented and leaking from well heads (methane is 21x more powerful at warming the atmosphere than carbon dioxide).

Origin Energy has not accounted for or addressed the environmental impact of these twelve proposed wells. Origin appear to be planning to sell the gas collected from these exploratory wells but without a lawful production license. A few months ago, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater. Sending toxic wastewater intestate is not a good enough solution (making it someone else's problem) and certainly does not address the on-site toxicity from surface evaporation pools. And Origin's proposal does not adhere to the required 2018 Pepper Enquiry recommendations.

Do not approve these EMPs as the plans do nothing to protect our environment (land, air or water quality), Traditional Owners are not in support of these wells being located on their lands, and the EMP's lack of adherence to Pepper Enquiry recommendations only undermines the integrity of the regulatory system.

Thank you in advance for your consideration.

Kieran Holmes
****
NSW 2153

Holmes, Louise – Saturday, 13 August 2022 – 16:39:21

Subject	STOP ORIGIN"S FFFFFRACKING plans
From	Louise Holmes
Sent	8/13/2022 4:39:21 PM

we do not need fracking anywhere in this country EVER

Louise Holmes
****
NSW 2780

Homberger, Verena – Friday, 12 August 2022 – 22:27:04

Subject	No to Origin's Fracking Plansl
From	Verena Homberger
Sent	8/12/2022 10:27:04 PM

My name is Verena Homberger, originally from Switzerland, I have lived in Australia for most of my now 80 years, I love my adopted country and want it to remain frack free because fracking is dangerous, it's damage irrevocable.

I stand with NT's traditional Owners who have been staunchly defending their Country against Origin for years, fighting against the planned wells which threaten their water, their cultural heritage, and EVERYBODY'S CLIMATE.

Furthermore, if the NT Government were to approve Origin's plans, it would open the door not only to Origin, but it would be setting a terrible precedent for other fracking companies to frack and destroy water, country and climate. Please, therefore, reject Origin's EMP. Only by standing together and looking after our earth, we can ensure a secure and safe future for our children and grand children.

Thank you for your time in reading my submission.

Verena Homberger
****
WA 6026

Homewood, David – Sunday, 14 August 2022 – 19:23:24

Subject	Stop fracking!
From	David Homewood
Sent	8/14/2022 7:23:24 PM

Let’s not make a terrible mistake and further endanger ecology, culture and global stability. No more fracking in the NT! Say no to Origin!

David Homewood
****
VIC 3054

Hont, Gabriella – Sunday, 14 August 2022 – 22:30:46

Subject	Fracking in the NT
From	Gabriella Hont
Sent	8/14/2022 10:30:46 PM

To NT Dept of Environment,Parks and Water Security
Origin's plans to frack in the NT disturbs me on several levels.
At 70 years of age I have watched for decades as the environment has been destroyed by extractive practices.
Now it is not just the environment but the rights of Traditional Owners and the negative impacts on the liveability of the planet.

Business as usual can't continue. Each decision maker has to take responsibility for the impact their decision has on the climate and the increasing devastation caused by climate extremes like more intense cyclones, droughts and floods.

Please reject Origin's plans.

Gabriella Hont
****
VIC 3194

Hood, Liam – Thursday, 11 August 2022 – 14:27:05

Subject	Stop origins fracking plan
From	Liam Hood
Sent	8/11/2022 2:27:05 PM

Don't you dare approve this.. That is not your land to give away and make money on. And if you do, every cent is deserved by the Traditional owners of said land

Liam Hood
****
SA 5163

Hooke, Ken – Saturday, 13 August 2022 – 14:59:13

Subject	Cease Origin's plan on NT fracking
From	Ken Hooke
Sent	8/13/2022 2:59:13 PM

Some years ago I witnessed the results of fracking in the US and was appalled by the damage done to the environment by the chemicals used in the Fracking process If I were less a gentleman I could describe fracking with one F word.
Ken Hooke. 3 Ballinger Court Buderim Qld.

I paste below information by Professor Sandra Steingraber, a professor of environmental studies and sciences at Ithaca College New York

Credit: Sandra Steingraber, a professor of environmental studies and sciences at Ithaca College New York

Simon Fraser University.

Fracking has revolutionized the extraction of oil and gas in just a few years, but this highly efficient method comes with environmental and health risks. Now, a new metastudy details its adverse effects on the local environment, the climate and human health.

The new report, published by Physicians for Social Responsibility and Concerned Health Professionals of New York, brings together the findings of more 1,700 studies, articles and reports tying fracking activities to a host of health problems including birth defects, cancer and asthma.

Related: Fracking is on the rise in Pennsylvania. So are radon levels. Are the two connected?

It’s the sixth edition of a report originally published in 2014, which helped inform New York State’s decision to ban fracking. A group of public health professionals that included Sandra Steingraber, a professor of environmental studies and sciences at Ithaca College, had wanted to make sure sound science was part of that decision.

“So, we went to work, translating the science into plain English for our political leaders, members of the press and, most importantly, people in frontline communities who are going to be compelled to endure the risks that fracking brings to people's health,” Steingraber says.

Related: In Argentina, enormous fracking potential and opposition to match

“When we first did this, we didn't call it a compendium, we called it a memo,” she says, “because there were only nine studies in the peer-reviewed literature. When we finally banned fracking in New York in December 2014, we had an edition of the compendium with 400 studies. At that point, people all over the world were … thinking about fracking — whether to allow it or not — so our compendium was in great demand. So we've kept going with it.”

Fracking (or, hydraulic fracturing) works by forcing water, sand and chemicals into shale rock at high pressures, allowing fossil fuel companies to extract oil and gas that can’t be reached with conventional wells. The study examined fracking’s effect on a wide range of parameters, including air pollution, water pollution, radioactivity, social disruption and climate change.

"Across all these data we saw a plethora of recurring problems and harms, and we uncovered no regulatory framework that could avert these harms. In other words, there's no evidence that fracking can operate without threatening public health directly or without imperiling climate stability, on which public health, of course, depends."
Sandra Steingraber, professor of environmental studies and sciences, Ithaca College, New York

“Across all these data we saw a plethora of recurring problems and harms, and we uncovered no regulatory framework that could avert these harms,” Steingraber says. “In other words, there's no evidence that fracking can operate without threatening public health directly or without imperiling climate stability, on which public health, of course, depends.”

Air pollution is an ever-present by-product of fracking, including methane, which is a powerful greenhouse gas, and ground-level ozone, which Steingraber calls “a killer.”

Science clearly shows that ground-level ozone contributes to stroke risk, premature birth, heart attack and asthma, among other things, she explains. When her research group looked at public health effects measured directly, they saw them occurring at higher than normal rates in places with a lot of fracking activity.

The most troubling of these, Steingraber says, is the effect on pregnant women who live near drilling and fracking operations. These women are at higher risk for poor birth outcomes, including premature birth, certain kinds of birth defects and small-for-date births — infants born small for the number of months of pregnancy.

Water contamination is also a proven result of fracking, Steingraber says. Fracking uses fresh drinking water sources to shatter the shale underground, releasing the bubbles of methane — natural gas — and oil trapped inside the rock. “When that water comes back up again, it's contaminated not only with toxic fracking chemicals that were added in the first place, but there is also a whole periodic chart of toxic chemicals down in the shale — things like heavy metals, arsenic, barium, strontium, uranium,” Steingraber explains. “Some of these things, like radium and radon, are actually radioactive.”

This raises the difficult problem of how to dispose of toxic wastewater. Standard practice is to re-inject it into the ground, but this raises the risk of contaminating drinking water aquifers, which the wastewater has to be pushed through. In addition, because lubricating chemicals are added to fracking fluid, the technique can actually lubricate fault lines and trigger earthquakes. Some areas in the United States, such as Oklahoma, have seen a dramatic and unexpected rise in seismic activity, which is likely connected to wastewater disposal. A whole section of the new report is dedicated to the public health and safety risks around increased seismic activity, Steingraber says.

As is commonly the case with extractive industries, there is an environmental justice component to fracking and health impacts.

Fracking infrastructure and fracking well pads are disproportionately sited in communities of color, poor communities and rural communities that can offer the least resistance — communities where people don't necessarily “have friends in Congress” or access to effective legal assistance, Steingraber notes.

Andrew Cullen/Reuters

Climate change is the big theme of the sixth edition of the compendium. Data clearly show that methane is surging in the atmosphere across the globe, a phenomenon that began to rise rapidly in 2007, Steingraber says. Methane is 86 times more powerful over a 20-year time frame than carbon dioxide and “twenty years is about the length of time we have left to really get the climate stabilized and decarbonize.”

"Increasing evidence suggests that North American fracking operations are driving a lot of that surge,” she adds. “And we're discovering that fracking operations and all their attendant infrastructure — the pipelines, the compressor stations, the distribution pipes that bring it into your home —are far more leaky than we formerly appreciated and there are no good fixes for this problem. All of this is quite alarming, showing us that fracking is absolutely incompatible with climate stability.”

Steingraber disputes the notion that natural gas is a so-called bridge fuel to a clean-energy future.

“That's been an industry talking point since the very beginning,” she says. “There was never really a lot of data to suggest that natural gas worked that way, but at this late stage in the climate crisis we know that's absolutely not the case.” One reason the bridge metaphor doesn't really make sense, Steingraber adds, is that “we're already on the other side of the water.”

“We have renewable resources that are deployable now, in the form of solar, wind and water power that can be backed up with battery storage, obviating the need for fracking,” she points out. “So, fracking is no longer a bridge. It might have been a bridge 80 or 90 years ago. Today, it's a wrecking ball that is swinging at our climate.”

Ken Hooke
****
QLD 4556

Hopkins, Gil – Thursday, 11 August 2022 – 19:59:46

Subject	No more fracking especially on Traditional Owner country
From	Gil Hopkins
Sent	8/11/2022 7:59:46 PM

Fracking will destroy what's left of this fragile country.
And for the rest of us in this world, fracking will increase global warming. It's not an answer to energy problems, its another error link in the chain to increasing our temperature and storm events.
Please stop the fracking, and respect the traditional owners.
Gil

Gil Hopkins
****
VIC 3401

Hopper, Elaine – Saturday, 13 August 2022 – 14:16:24

Subject	Northern territory dept of env. parks and water. Fracking permits
From	Elaine Hopper
Sent	8/13/2022 2:16:24 PM

Northern territory dept of env. parks and water.
Please consider the objections of native title holders in the matter of the fracking plans for the NT. Traditional owners have substantial concerns about pollution of water, climate damage and disrespect for cultural values.
The NT has unique landscape which I have appreciated on visits there. Fracking poses a danger to water used to do the drilling and water courses in the area.

elaine hopper
****
VIC 3130

Horak, Marianne – Monday, 15 August 2022 – 11:18:26

Subject	Please stop Origin's plans for fracking
From	Marianne Horak
Sent	8/15/2022 11:18:26 AM

To the Northern Territory Department of the Environment, Parks and Water Security,

I am a scientist and have watched with alarm as climate change is taking its toll and threatens the livelihoods of following generations. Fracking in particular, in a continent so dependent on underground water, is doubly dangerous. Please, please respect the wishes of the Tradional Owners who have looked after this country for tens of thousands of years, while we have trashed it in 200 years!

Yours sincerely,
Dr Marianne Horak

Marianne Horak
****
ACT 2617

Horn, Alys – Thursday, 11 August 2022 – 14:30:38

Subject	Stop Origins fracking plans
From	Alys Horn
Sent	8/11/2022 2:30:38 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

If the your Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Alys Horn

Alys Horn
****
SA 5025

Horn, Stephen – Sunday, 14 August 2022 – 19:33:49

Subject	Plans by Origin for drilling 12 new gas wells at Amungee NW
From	Stephen Horn
Sent	8/14/2022 7:33:49 PM

The Secretary
NT Department of Environment, Parks and Water Security

July 22 Origin Energy put forward plans for 12 new fracking wells. I am informed that no consent had been obtained from traditional owners for this activity on their lands, from a justified fear that such drilling jeopardises environmental integrity, doing irreparable harm at profit only to shareholders of the company. I believe, as a non-Aboriginal Australian, firstly that this point of view needs to be respected, secondly that it is counter to the interests of all Australians to embark on new ventures whose outcomes are higher emissions and a major drag on reaching national goals and obligations regarding climate change abatement.
I realise how integrated fossil fuel extraction has become in the economies of states and territories in Australia; that impediments to expansion of activity come at a cost, and do not come easily after many decades of being the backbone of prosperity, particularly for regions away from centres of population, where main benefit is expected. I would only ask that consideration be given to the catastrophic cost of not moving away from this narrow base, as all markets and public opinion firms against non-renewable energy exploitation, and awareness at the environmental costs of economies based on fossil fuels deepens.
The decision to deny permits in this case should be straightforward; it should be seen as forward-thinking and a stimulus to industry better aligned to the future.
I commend these thoughts to your attention

stephen horn
****
ACT 2615

Hornby, June – Saturday, 13 August 2022 – 14:41:55

Subject	Stop Origin fracking
From	June Hornby
Sent	8/13/2022 2:41:55 PM

To NT Environment and Water
Please do not approve Origins fracking plans- there is no future in gas and country and water will be destroyed for nothing.

June Hornby
****
ACT 2617

Horton, Mel – Sunday, 14 August 2022 – 18:13:02

Subject	Please stop Origin Fracking Plans
From	Mel Horton
Sent	8/14/2022 6:13:02 PM

There's mining and then there's fracking. Fracking has already proven to be the worst form of gas mining on the environment - e.g. Queensland farmers being able to ignite their water holes! It takes monstrous amounts of water at a time the environment is drying through climate change and it is against our First Nations Traditional Owners wishes. Please reject Origins EMP.

Mel Horton
****
WA 6210

Hosgood, Bronwen – Sunday, 14 August 2022 – 15:59:15

Subject	No more fracking!!!!
From	Bronwen Hosgood
Sent	8/14/2022 3:59:15 PM

No more fracking enough is enough!!!

Bronwen Hosgood
****
WA 6026

Hoskin, Mandy – Sunday, 14 August 2022 – 22:36:03

Subject	Stop Origins Fracking Plans
From	Mandy Hoskin
Sent	8/14/2022 10:36:03 PM

To the Northern Territory Department of Lands and Water Planning

I ask you to please listen to and respect the voices of the people who own the resources that Origin want to pilage.

There is strong opposition to fracking the country around the Gulf of Carpentaria. First Nations people want the ground water clean for human sustenance and the country free from exploration for gas and the damaging techniques of fracking.

I will be seeking my energy be supplied by a different provider and encouraging others to do the same.

It is my understanding that in International law, the resources of the land belong to the people of the land.

In hope, I request you deny access to Origin, and stop fracking now.

Regards
Mandy Hoskin

Mandy Hoskin
****
SA 5211

Hosking, Richard – Saturday, 13 August 2022 – 14:51:17

Subject	Dont approve Fracking by Origin
From	Richard Hosking
Sent	8/13/2022 2:51:17 PM

Fracking in The Beetaloo must not proceed for several reasons.
(1) It will be a Climate "Bomb" - its emissions alone would blow the weak targets set for emissions reductions if fully implemented
(2) Drilling will threaten precious water resources. Typically, drilling goes through surface aquifers to the deep gas seams. various chemicals are mixed with water to pressurize and fracture deep rock and release gas. A typical "frack" takes 2 Megalitres of water. Each well may require 100s of fracks, up to several thousand wells may be drilled if the basin is fully developed. Hence large amounts of water will be used - this contaminated water must then be "managed" usually by storing in containment ponds. Currently this water is FREE TO MINING COMPANIES!!!. There is a poor record of past miners remediating the damage they have caused and the NT Govt has a poor record of enforcing this
Thus the water will be used for free and then may well be left for future generations to deal with.
(3) "Fugitive emissions" are significant - they have increased dramatically in the last decade. Methane is a potent Greenhouse Gas. It escapes from wells during drilling and at the end of life of the well and from infrastructure associated with transport and processing. Beetaloo will increase these emissions dramatically. Again there is little confidence that the NT Govt is willing or even able to enforce well remediation
(4) Well drilling will trash sacred sites and interfere with other activities - this is happening already Well will require access roads, pipelines and other infrastructure.
(5) We dont need the gas - there are other alternatives if only we would put our efforts towards them

The economics of new gas doesnt stack up if all the true costs are taken into account - this is a short term cash grab by companies who would not proceed if they had to cover all the costs including "real" carbon credits - there is a risk that these projects will become "stranded assets" with the costs of remediation borne by Government.
I trust the NT Government is not beholden to Big Gas - please do not approve this project for the sake of our children and the planet.

Richard Hosking
****
WA 6158

Houston, Ian – Friday, 12 August 2022 – 21:52:23

Subject	Stop Origins fracking plans
From	Ian Houston
Sent	8/12/2022 9:52:23 PM

Enough is enough - do the right thing for the sake of our climate.

Do the right thing, contribute to a meeting full reconciliation and respect the wishes of the traditional owners.

Yours sincerely
Ian Houston

Ian Houston
****
QLD 4730

Howard, Ben – Thursday, 11 August 2022 – 14:45:13

Subject	Please be mindful when considering Origin proposal
From	Ben Howard
Sent	8/11/2022 2:45:13 PM

Particularly at this time ,when the federal government has belatedly offered the First Nations people a cause to be optimistic, isn't it extremely counterproductive to be giving two bit Devil may care mining companies your blessings to reek havoc and devastation on a beautiful pristine landscape. There will be many proposals following this one . Please where will it stop.

Ben Howard
****
NSW 2103

Howard, Frrank – Friday, 12 August 2022 – 15:37:41

Subject	Fracking is useless
From	Frrank Howard
Sent	8/12/2022 3:37:41 PM

There is enough wealth in Australia be a real government work for our future not personnel power and greed. No fracking, god help you, don't acrue based karma be a real hero stop being a puppet. Frank Howard.

frrank howard
****
WA 6556

Howell, Cordelia – Friday, 12 August 2022 – 14:41:47

Subject	Please stop Origin's fracking plans in the NT.
From	Cordelia Howell
Sent	8/12/2022 2:41:47 PM

My name is Cordelia Howell and I live in Laguna NSW.
Some years ago AGL wanted to start fracking in my area.
This horrified my community and we stood together to stop the destruction of our local area. Thank god we succeeded and our beautiful landscape remains intact.
I stand with the traditional owners and residents of the Northern Territory now to ask that Origin's plan to frack in the NT not be approved.
Fracking creates too much destruction and the costs are great both financially and culturally. There will be little reward for Australia or Australians in this project.
If we wish to retain any quality of life we need energy producers and mining companies to invest their time and money in renewable energy now, not later.
Thank you for considering my submission.
Cordelia Howell

Cordelia Howell
****
NSW 2325

Howes, Michael – Saturday, 13 August 2022 – 16:10:40

Subject	Stop Origin Fracking on the Northern territory
From	Michael Howes
Sent	8/13/2022 4:10:40 PM

Department of Environment, Parks and Water Security
25 Chung Wah Terrace,
Palmerston City NT 0830

dDate 11.08.2022

Subject: Origin Plan to open twelve new fracking drills in the
Northern Territory

To whom it may concern,

My name is Michael Howes and I am very concerned about Origin's plans to open new fracking "exploratory" drill sites in the Northern Territory. I have read that the traditional owners of this land are opposed to this process. These wells and their operation have the ability threaten water, cultural heritage, and our climate.
The Traditional Owners have been defending their country against Origin mining activities for years .
If the NT Government approves these plans, it will pave the way for not only Origin to frack and destroy sacred country and potential clean water but will also impact heavily on our climate, which was the reason for returning a Federal Labour government. Allowing these pland to progress will also set a precedent for other fracking corporations to do the same.
I along with Traditional Owners want this country protected and strongly oppose Origin's fracking plans.

I oppose this for reasons because Origin
1. Wants to expediate gas production without the right license.
Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.
But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

2. Have not correctly addressed the full climate impacts of the emmissions.
3. The quantity of water they propose and want to take from the
Gum Ridge Formationton could impact water purity.
4. Will produce 90 million tons of waste water which will need to be shipped out interstate.
5.Have not properly implemented all the key recomendations from the Pepper Inquiry.
Traditional Owners in 2018 gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.[1]
other crucial points odf consideration are:

• Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
• In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.[2] Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
• 535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal, equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.[3] This doesn't even include scope 3 emissions.

References:

[1] Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program, Department of Environment, Parks and Water Security, 18 July 2022.
[2] Government accepts all recommendations of the inquiry, Northern Territory Government, 28 June 2022.
[3] Climate Action Plan 2018–2021, Alice Springs Town Council
[4] Environment management plan, Department of Environment, Parks and Water Security, 20 January 2022.

Thank you for your time to consider my submission
Kind regards
Michael Howes

Michael Howes
****
NSW 2481

Howland, Stephen – Sunday, 14 August 2022 – 20:10:20

Subject	Stop Origin Fracking
From	Stephen Howland
Sent	8/14/2022 8:10:20 PM

Our world is in desperate need of help and these fracking wells do MAJOR damage to many parts of the country. Please stop new fracking wells opening.
Kind Regards
Stephen Howland

Stephen Howland
****
QLD 4745

Huba, Sandra – Saturday, 13 August 2022 – 14:51:28

Subject	Please stop the fracking in the Northern Territory
From	Sandra Huba
Sent	8/13/2022 2:51:28 PM

Knowing that Origin energy is planning to open new fracking drills in the NT just breaks my heart. Haven't we destroyed this country enough? Can't we see that this will destroy our water, the climate and the effects on our country cannot be measured. Already we are suffering with floods and fires because of lack of awareness by some ignorant people of the harm being done to our beautiful country but that can no longer be an excuse. It comes down to greed. Please listen to the Traditional Owners.

Sandra Huba
****
NSW 2218

Hug, Climate – Monday, 15 August 2022 – 13:27:47

Subject	Stop Origin's Fracking
From	Climate Hug
Sent	8/15/2022 1:27:47 PM

My name is Lisa and I am the founder at Climate Hug Inc. We are a not-for-profit that recognises the link between mental health and the climate crisis.
Recent studies are solidifying the concept of eco-emotions as a significant impact on not just our mental health but our physical health as well. In particular, youth are experiencing the greatest amount of eco-anxiety and eco-paralysis as they consider their uncertain futures.
In a time when we are now subject to the changes bought on by the climate emergency, how do you think our youth feel if our governments are continuing to back needless fossil fuel projects?
Does this set an example for our youth to gain confidence to use their voices?
Does support for a project like this show the respect for our First Nations Communities that governments say they have?
Does this project in any way, shape or form support the health of our Country and its people?

If the answer was no to ANY of the above questions, Climate Hug urges you to back our Traditional Owners and stop Origin's fracking plans.

Climate Hug
****
VIC 3810

Huggard, Brett – Sunday, 14 August 2022 – 13:23:25

Subject	Stop Origin's fracking plans!
From	Brett Huggard
Sent	8/14/2022 1:23:25 PM

My name is Brett Huggard. My wife Beth and I have been travelling Australia for several years and we're extremely upset seeing the damage and scars that have occurred from fracking, all around Australia.

We were disgusted to see that Origin has expanded fracking along the Carpentaria Highway in the NT. Shame! Shame! Shame!

The possible damage that can occur from the fracking corporations having access to the water basins is not acceptable. Not to mention the huge amounts of water that are required to frack the drills.

Is our government serious about looking after our environment, our land and our heritage? Or is it lip service or is it just kowtowing to big business selling out to multinationals that are stripping our country?

Our water is our life blood and water in Australia and the the NT is a rare and precious commodity. Are you prepared to risk our water, our food production, farming and our climate for such a short term gain?

Fracking is not the answer!

Brett Huggard
****
QLD 4120

Hughes, Jenny – Friday, 12 August 2022 – 20:07:50

Subject	Stop origins fracking plans.
From	Jenny Hughes
Sent	8/12/2022 8:07:50 PM

I understand Origin lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

I totally oppose this for the following reasons.
1/ obviously with the massive issues climate change is causing us, and the advice the scientists have provided is we must stop all fossil fuels ASAP- why would you start building more??? we mast transition to renewables as soon as possible.
2/ Why would you build them in the NT, it is incredibly dry (except in the wet season) ? They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. This is ludicrous, if they really are committed to increasing energy production why would you frack for gas which takes up huge amounts of water, and destroys our precious environment when you are in one of the best places to build solar plants??
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

The final objection relates to the offense this creates with the traditional owners of the land! White people (for which I am guilty of being one). Have totally stuffed up our country, we need to start asking the traditional owners for help in how to undo the damage we have done. This includes respecting their land and paying our rent! not destroying it further with fracking!
I would therefore like to ask the Department to reject Origin's EMP!
thank you
Kind regards

Jenny Hughes

Jenny Hughes
****
NSW 2256

Hughes, Lisa – Saturday, 13 August 2022 – 19:16:59

Subject	Stop origin fracking plans
From	Lisa Hughes
Sent	8/13/2022 7:16:59 PM

We know enough to support new ways of sourcing energy. It's time to change the way we use gas, coal and other harmful extractions from our land. Think before you dig! Our planet needs support and our culture need to change! Time is now, it's not ok that we know the risk and ignore the consequences. The time is now because we have ignored it for too long. We are running out of time, so it's enough! Enough!

Lisa Hughes
****
SA 5061

Hughes, Tash – Friday, 12 August 2022 – 13:37:07

Subject	Please don't allow Origin's reckless fracking plans
From	Tash Hughes
Sent	8/12/2022 1:37:07 PM

I am writing to plead for your ruling against new fracking projects in the Northern Territory. I am a passionate Australian and love our country so want to protect it.

Fracking concerns me in a number of ways - each one is enough reason to stop origin.

We are at a critical point in saving our planet from climate change. If we don't change our behaviours now, our planet is doomed. Starting new and fast tracked gas wells is going to damage our climate, not help it. The only way we can meet the climate goals is to not start any more gas or coal sites. Even if these wells remained for testing only, Origin would be producing over 2 million tonnes of emissions. And Origin's plan calls most of them scope 3 emissions so they won't have to deal with them.

Fracking requires a LOT of water. 430 million litres of water for Origin's 12 fracking wells means 430 millions litres not available for wildlife, agriculture and humans - that is significant for a country and a territory prone to droughts and fires. Not to mention moving do much water (including all the waste water they plan to send interstate, using more carbon miles) is not balancing our climate and environment so again furthers climate damage by these projects.

These fracking projects are in areas that have cultural significance and value to indigenous and all Australians. Once these places are mined, that culture and beauty can't be replaced. Mining them against the wishes of the land owners and caretakers is unethical, immoral and dismissive.

If these 12 wells are allowed, when it will stop? Allowing these will make it harder to reject the next request and the next, and son on, until there is nothing left to protect.

On top of all this, I am concerned about this project specifically. Origin does not appear to be acting in a transparent and honourable way. They don't have the licences to sell but are planning to sell form this proposal. The proposal is not meeting the 135 recommendations from the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. They have no real plans to protect the local water from the waste water. Their proposal has not included all climate impacts of their fracking wells - for example the extra carbon production of shipping out waste water, having the wells open much longer than is necessary for testing, and the impact of producing and using the gas that could potentially come from these wells.

Countering all this is one reason to allow these wells - letting Origin make greater profits. I've nothing against businesses making a profit, but not at such as cost to everyone else (and themselves for that matter!)

So, please consider carefully. Please reject Origin's EMP for twelve fracking wells in the NT. Our futures depend on these wells not going ahead.

Tash Hughes
****
VIC 3147

Hull, Elizabeth – Sunday, 14 August 2022 – 15:40:19

Subject	Stop Origin's Fracking Plans
From	Elizabeth Hull
Sent	8/14/2022 3:40:19 PM

Plans for Origin's Fracking to be approved in NT should not be allowed, oas they create a dangerous precedent for other corporations to pollute our national water supply. We in Australia should follow the example of governments in France which have banned this practice.
Not only is water safety jeopardised, but the cultural and climate issues put at risk should warn us of the dangers inherent in this practice.
Please do not approve fracking in NT and conserve the status quo.
In appealing to the moral obligations of those in authority I plead for a just outcome for communities in the Carpentaria region which are endangered and also in the interests of ecology and climate protection .
Elizabeth Hull

Elizabeth Hull
****
NSW 2515

Hull, Patricia – Saturday, 13 August 2022 – 18:35:24

Subject	Stop Fracking Plans
From	Patricia Hull
Sent	8/13/2022 6:35:24 PM

The Director,
The Northern Territory Department of. environment, Parks and Water Security
Dear Sir,
I am making a submission to you regarding the plans of Origin to frack twelve new wells in the Northern Territory and i beg you not to let these plans go ahead.
The reasons are simple. Why would you let the greed of a big company wreck thousands of years of heritage of the traditional owners if this land? Not only that, but the water will be poisoned, the land made useless for thousands of years to come and uninhabitable. Short term gain for Origin, long term pain for the traditional owners.
I lived in the Northern Territory four years mostly in Mataranka but travelling around much of it and can imagine the heartbreak of the owners if this amazing, beautiful land with this threat from Origin.
Please don't let this wilful wrecking take place, just because they can.
Yours faithfully
Patricia Hull

Patricia Hull
****
NSW 2795

Humphrey, Malcolm – Saturday, 13 August 2022 – 08:27:10

Subject	Stop Fracking on this land
From	Malcolm Humphrey
Sent	8/13/2022 8:27:10 AM

We really don't need fracking, aren't we supposed to be transitioning to renewables? Aren't we supposed to be protecting our environment and saving our climate? Don't we owe some respect to the traditional owners of this land?

Malcolm Humphrey
****
SA 5158

Humphrys, Josephine – Thursday, 11 August 2022 – 14:53:31

Subject	Please STOP Origin's Plans
From	Josephine Humphrys
Sent	8/11/2022 2:53:31 PM

To all involved with Parks, Water and Environment in the NT

Please stop any fracking plans of Origin!! The science has NEVER been clearer!Think of our children and grandchildren and future generations. Fossil fuels simply HAVE to stay in the ground!
Sincerely and for our planet
Jo Humphrys

Josephine Humphrys
****
VIC 3922

Hunt, David – Friday, 12 August 2022 – 14:31:08

Subject	Origin's fracking plans
From	David Hunt
Sent	8/12/2022 2:31:08 PM

Although Covid has stopped us visiting the Territory for some years we were hoping to resume in the near furure but the thought of witnessing the damage caused by continuiong exploration and fracking deters us from resuming.
Even if it is off road and out of site the knowledge that your government is allowing it to occur against the express wishes of the Traditional owners deters us from coming.

David Hunt
****
NSW 2229

Hunt, Jean – Saturday, 13 August 2022 – 18:50:16

Subject	Stop origins fracking plans
From	Jean Hunt
Sent	8/13/2022 6:50:16 PM

Northern Territory of Environment, Parks and Water Security

My name is Jean Hunt and I live in Booralaming, WA

I'm writing to you in regards to the proposed fracking by Origin.
I have a passion about preserving our beautiful land and natural habitat.
This plan will disrupt all our lives in a negative way, by destroying our environment, using copious amounts of water, which we can ill afford, especially with the climate change news.
Also there is a risk of contaminating our water, destroying country, both its beauty and our climate.
The aboriginals in remote areas will be affected - people with true knowledge of land and nature, their natural cultural heritage. In fact every individual who lives in WA and Australia as a whole.
It could also increase geological trauma on a large scale especially if fracking continues.
So I'm asking the Department to reject Origins EMP

Jean Hunt
****
WA 6308

Hunt, Kammy – Monday, 15 August 2022 – 11:19:39

Subject	NO FRACKING, NO ORIGIN
From	Kammy Cordner Hunt
Sent	8/15/2022 11:19:39 AM

This is crazy.
It's time we all made sensible, responsible decisions for the future of all people and all life, NOT just for multinational corporations and their shareholders, many of whom are overseas.
Everyone is entitled to a future planet that supports life.
Aiding and abetting Origin in fulfilling their short term profit goals for expectant shareholders - who, let's face it, are not starving, homeless, persecuted, dispossessed or suffering any other transgressions in life - is not the way to run a finite planet.

In addition, all Australians are entitled to our resources or the profit from them. These resources are not destined for the benefit of all Australians, and neither are the profits from these resources.
Almost daily, you will hear from lobbyists that you should do this or that "to serve your people". They are persuading you to fulfil some mendacious fantasy that actually really only serves their own interests.
While they persuade you daily, Australians have no access to you to have their voices heard except at elections once every 3 - 4 years. How easily those voices can be ignored or forgotten in the intervening times when other voices are in your ears daily.

This is the travesty of mankind and our destruction of ecosystems, species, oceans and environments. It's all being done for a few people who have access to politicians.
The truly great politicians and truly great governments are the ones who stand up to that incessant buzzing in their ear, who don't listen to the persuasion that corporations know best.

Because in truth we DON'T need this gas, the world doesn't need this gas, the planet doesn't need this gas, other species don't need this gas, the environment doesn't need this gas, the groundwaters don't need this gas, the climate doesn't need this gas. Yet none of these stakeholders have a voice at any table.
Only Origin does, on behalf of their shareholders, and you are not meant to be representing them, exclusively.

PLEASE PLEASE PLEASE stand up to Origin and become a rare government that MAKES A STAND, that decides for the people, for the future, for ecosystems, for climate, for wildlife.

Don't go down in history as yet another government who was persuaded by self-interested forces to do the WRONG THING.
The wrong thing that will have devastating consequences FOREVER.

Thank you
Yours sincerely
Kammy Cordner

Kammy Cordner Hunt
****
VIC 3722

Hunt, Valmai – Sunday, 14 August 2022 – 14:11:55

Subject	Stop Origin's Fracking Plans
From	Valmai Hunt
Sent	8/14/2022 2:11:55 PM

To: The Northern Territory Department of Environment, Parks and Water Security

Valmai Hunt
****
NSW 2653

Hunte, Bem – Sunday, 14 August 2022 – 17:00:27

Subject	Fracking damages hopes for our children
From	Bem Le Hunte
Sent	8/14/2022 5:00:27 PM

To whom it may concern:

Please stop the fracking plans of Origin Energy. We cannot continue to support plans that are ruining our future here on Earth. We cannot continue failing to understand the connection between our floods and heatwaves without understanding that these have an ORIGIN in the way we extract fossil fuels from our planet.

Please see the Origin in this plan of Origin's and stop the fracking. It takes guts to say no to business, but if our Governments don't have the guts we don't stand a chance.

Many thanks for reading this email and awaiting your response,

Professor Bem Le Hunte

Bem Le Hunte
****
NSW 2021

Hunter, Deborah – Saturday, 13 August 2022 – 15:32:23

Subject	Stop Origin fracking Australia
From	Deborah Hunter
Sent	8/13/2022 3:32:23 PM

To the NT department responsible,
I am concerned that Origin is still planning to increase extraction of fossil fuels. This must not be permitted. Australia and its territories must act responsibly to cease all consideration of new fuel extraction developments immediately.
Sincerely,
D Hunter

Deborah Hunter
****
TAS 7304

Hurley, Hurley – Saturday, 13 August 2022 – 23:03:02

Subject	The reason why I mandate you to put a stop to Origins plans to creat more fracking wells in the NT
From	Hurley Hurley
Sent	8/13/2022 11:03:02 PM

Northern Territory Department of Environment, Parks and Territory.

I Henriette Hurley do make this submission regard fracking wells slated by Origin Energy, I have studied Origins tactics to by pass systems of checks and balances put in place by the Australian government on our behalf to protect our precious environment …. flaura, fauna, air, land, water and most importantly humans.

I believe Origins behavior to date indicates it's continuing disregard to me and my fellow Australians and as such as your boss and you our elected representatives are mandated to reject Origins new proposal out of hand as unfit and not meeting environmental requirements to move forward.
Henriette Hurley

Hurley Hurley
****
NSW 2082

Hurley, Jenny – Saturday, 13 August 2022 – 17:30:05

Subject	Stop Origin's fracking plans
From	Jenny Hurley
Sent	8/13/2022 5:30:05 PM

Water is the most precious of commodities in the NT. Fracking is way too risky, & it's unnecessary. We need to move to environmentally friendly renewable energy sources, not go down the fracking path! Aboriginal lands & cultures should also be protected from destructive fracking that does not benefit anyone except greedy corporations. Please listen to reason & the majority who do not want fracking!
Yours sincerely,
Jennifer Hurley.

Jenny Hurley
****
VIC 3216

Hurley, Michael – Sunday, 14 August 2022 – 16:18:43

Subject	Please say no to Origin's fracking projects
From	Michael Hurley
Sent	8/14/2022 4:18:43 PM

Hello, I am a 72yo man in Victoria. I have watched the impact of climate changeable around the world and close to home in my lifetime.

Origin proposes to drill 12 new exploratory wells for fracking on the Amungee Mungee pastoral station. The local people have made it clear they do not want this to happen. Origin wants to sell the gas they get from their exploring. They will need over 430 million litres water to do this without a production license and create a massive carbon footprint of over 2 million tonnes of emissions.

They have no plan to manage toxic wastewater, other than trucking it interstate. Nor do they have a plan to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

All of this will be done before every recommendation of the Pepper Inquiry has been put in place.

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

I am writing to ask the Department and the NT Government not to approve Origin's plans.

Regards

Michael Hurley

Michael Hurley
****
VIC 3070

Hurlimann, Urs – Friday, 12 August 2022 – 19:41:32

Subject	Future
From	Urs Hurlimann
Sent	8/12/2022 7:41:32 PM

Why do all the people in charge of the environment have no kids? Or do they just not care about them?
Kind Regards: Urs Hurlimann

Urs Hurlimann
****
QLD 4184

Hutchinson, Simon – Saturday, 13 August 2022 – 05:53:29

Subject	Stop fracking plans
From	Simon Hutchinson
Sent	8/13/2022 5:53:29 AM

Dear NT government I live in SA and have visited NT for work a few times. The world is clearly moving in a direction away from these horrible invasive techniques of extracting resources. We can not reverse this damage caused to your beautiful environment. Please consider the future for my children in your decision to approve this destructive mining! Thank you for taking the time to read my submission. Regards Simon director of Climbingtree creations

Simon Hutchinson
****
SA 5022

Hutchison, Elizabeth – Thursday, 11 August 2022 – 17:14:32

Subject	No Fracking in Traditional Owners Lands
From	Elizabeth Hutchison
Sent	8/11/2022 5:14:32 PM

The destruction that would be let loose by approving Origin's fracking plans would destroy country, use precious water and adversely affect climate.

Other operators would see this as a precedent and hence set up a seriously damaging situation.

Please reject Origin's application.

Elizabeth Hutchison
****
SA 5251

Hutchison, Kate – Saturday, 13 August 2022 – 16:36:25

Subject	Stop Origin's plans to open more Fracking drills
From	Kate Hutchison
Sent	8/13/2022 4:36:25 PM

To: Northern Territory Department of Environment, Parks and Water Security

Please do not approve Origin's plans to develop new fracking drills on the land of the Amungee Mungee pastoral station near Daly Waters. Fracking is not an environmentally safe means of energy production, it adds harmful emissions to the atmosphere and despoils precious water needed to sustain life.

Kate Hutchison
****
VIC 3054

Hyatt, Megan – Friday, 12 August 2022 – 19:03:28

Subject	Stop Origins Fracking Plans
From	Megan Hyatt
Sent	8/12/2022 7:03:28 PM

In 2022 with the planet on the precipice we need to stand up and be counted. With the state of the environment here in Australia and world wide we need to think about a way to plan our future for survival. We need to stop fracking, there are no two ways about it. There is a better way forward. It is time for us to lead the world and build a better future.

Megan Hyatt
****
NSW 2576

Hynes, Tony – Sunday, 14 August 2022 – 08:04:36

Subject	Stop Origin's fracking plans.
From	Tony Hynes
Sent	8/14/2022 8:04:36 AM

My name is Tony & I live in Northern NSW. I was involved in the protest of Gas Fracking in my area. Fracking installations are a blight on the environmental. Please recommend to the department that Origin's plans do not go ahead.

Tony Hynes
****
NSW 2484

Inglis, Karen – Friday, 12 August 2022 – 05:07:32

Subject	Stop Origins fracking plans
From	Karen Inglis
Sent	8/12/2022 5:07:32 AM

To the Northern Territory Department of Environment, Parks and Water

Please stop Origin from recklessly fracking in the Northern Territory. Giving them fracking rights will result in great damage to the environment and to the health and wellbeing of indigenous inhabitants in the area.

Yours sincerely

Karen Inglis

Karen Inglis
****
QLD 4569

Ingram, Murray – Saturday, 13 August 2022 – 06:04:47

Subject	Frack the NT - No thanks
From	Murray Ingram
Sent	8/13/2022 6:04:47 AM

How can you let this outdated and dangerous practice continue.
No doubt we're going to subsidise this to the tune of millions if not more
How about spending the money where it may benefit the taxpayers - e.g. battery storage or fix the Don Dale correction centre.
It's mind boggling that this obsolete technology is being contemplated.
OK tedi, jukan gorge are just the tip of the iceberg in the energy sector for malpractice
Are you going to be complicit in allowing another mistake in the name of profit where the perpetrators says "sorry" and all is forgotten
How much money has origin donated to allow this flawed program get this far.

murray ingram
****
NSW 2502

Inguanti, John – Friday, 12 August 2022 – 15:51:59

Subject	Origin Fracking proposal.
From	John Inguanti
Sent	8/12/2022 3:51:59 PM

When are we ever going to learn?
Man kind have raped our Earth for generations, for greed and wealth.
We must stop this, the world as a slim chance or opportunity to right the wrong.
Please, for mankind sake,stop this Fracking proposals and let's help to heal the Earth.

John Inguanti
****
VIC 3174

Ireland, Cath – Friday, 12 August 2022 – 21:12:43

Subject	STOP Origin's fracking plans in NT
From	Cath Ireland
Sent	8/12/2022 9:12:43 PM

To the Northern Territory Department of Environment,Parks and Water Security
Origins plans to open new fracking wells pose unacceptable environmental and cultural risks and risks to water security. Fracking is known to potentially contaminate groundwater. Australia is the driest inhabited continent on earth so this is obviously not in the interests of Australia and her citizens. Further development of fossil fuels only exacerbates climate change with its attendant risks of extreme weather events.
Destructive and stupid.
Please stop this destructive plan
Thank you
Cath Ireland OAM

Cath Ireland
****
NSW 2431

Irwin, Ruth – Saturday, 13 August 2022 – 14:03:21

Subject	ruth.irwin@gmail.com
From	Ruth Irwin
Sent	8/13/2022 2:03:21 PM

Fracking is one of the worst ways of obtaining fossil fuels. It creates enormous groundwater pollution, it increases earthquake risk, and it means land is no longer safe for stock. The costs are externalised, and the fracking company does not acknowledge or cater for the ongoing cascades of impacts in the environment or health of the local population. It is terrible to let this low grade type of mining, with extremely high EROI of 1/1.1 take place. It is wasteful, polluting, and socially and ecologically destructive. Fracking has been banned in the UK and France for all of these reasons. It should be banned in Australia too.

Ruth Irwin
****
NSW 2088

Isaac, Geoff – Friday, 12 August 2022 – 14:10:16

Subject	Origin's fracking plans must be stopped
From	Geoff Isaac
Sent	8/12/2022 2:10:16 PM

For the attention of NT Department of Environment, Parks and Water.
I write to express by objection to Origin Energy's plans to expand their fracking activities in the Territory.
Firstly, traditional owners are against this proposal and their wishes should be respected.
Secondly, the full GHG emissions likely to be generated from the proposed wells needs to be considered. I understand Origin and preferencing Scope 1 emissions and choosing to downplay scope 3 emissions for which these wells will be entirely responsible.
Thirdly, water is an increasingly scarce resource. The enormous quantities needed to develop this proposal do not represent the best use of the available water.
Finally this proposal is not consistent with global commitments to reduced GHG emissions and Australia's recently improved commitment toward this goal.
The Origin proposal must be rejected.

Geoff Isaac
****
NSW 2016

Isherwood, Rose – Friday, 12 August 2022 – 15:07:42

Subject	STOP fracking our country.
From	Rose Isherwood
Sent	8/12/2022 3:07:42 PM

To NT Dept of Enviroment.

NT Govt. must stop plans to open any Fracking Drills in the NT. This destroys our country, water, cultural heritage and our climate.

Rose Isherwood
****
QLD 4883

Isherwood, Sara – Saturday, 13 August 2022 – 15:42:21

Subject	Stop fracking now
From	Sara Isherwood
Sent	8/13/2022 3:42:21 PM

To whom it may concern,

I am deeply opposed to fracking in general and in the NT in particular. These fragile ecosystems and the indigenous peoples who caretaker that country do not want or need fracking and the environmental damage it entails.

STOP FRACKING! It is insane and unnecessary.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Peace,

Sara

Sara Isherwood
****
QLD 4883

J, Elizabeth – Sunday, 14 August 2022 – 08:35:02

Subject	Fracking in NT belongs to an era past!
From	Elizabeth Buckingham J
Sent	8/14/2022 8:35:02 AM

Hallo Origin
This is not the time to be starting on fracking. Surely this company can do more about renewables. infrastructure and all the adaptations that are needed in the future!
Please move into 21st century!

Elizabeth Buckingham j
****
VIC 3825

Jacka, Tim – Sunday, 14 August 2022 – 14:47:52

Subject	Stop Origin's Fracking plans
From	Tim Jacka
Sent	8/14/2022 2:47:52 PM

Northern Territory Department of Environment, Parks and Water Security.

Dear Minister,

I'm sure I'm not alone injecting to the proposal to allow tracking to continue in the Northern Territory (or anyone else in this country for that matter).

To be mining gas and coal in the middle of a climate crisis is not only irresponsible and reckless, but also anathema to good governance and public policy.

Please take this decision very seriously, avoiding the temptation of political advantage and/or succumbing to the temptation of government revenue.

Regards,
Tim Jacka
(Australian Lawyer)

Tim Jacka
****
VIC 3072

Jackson, Ben – Saturday, 13 August 2022 – 21:34:02

Subject	Fracking
From	Ben Jackson
Sent	8/13/2022 9:34:02 PM

Please think of future generations and sustainability.

Ben Jackson
****
TAS 7005

Jackson, George – Friday, 12 August 2022 – 10:29:28

Subject	Stop origin from fracking on Aboriginal lands and wrecking Aboriginal culture and community
From	George Jackson
Sent	8/12/2022 10:29:28 AM

To the Northern Territory Department of environment , parks and water security what the hell are you doing to the country and the Aboriginal lands and communities by allowing origin to fracking the country that we live in and how would the The white Australians like it if the heritage and culture where going to be wiped

George Jackson
****
NSW 2306

Jackson, Linda – Sunday, 14 August 2022 – 07:42:36

Subject	Stop Origins fracking plans.
From	Linda Jackson
Sent	8/14/2022 7:42:36 AM

F..king stop it!

linda jackson
****
NSW 2450

Jackson, Paul – Thursday, 11 August 2022 – 13:57:40

Subject	Stop Origins fracking
From	Paul Jackson
Sent	8/11/2022 1:57:40 PM

Please respect the Country and go through proper process required for doing business on Aboriginal land.Destroying the natural environment and delving inunsafe practices will cause damage to flora and fauna and catastrophic health concerns to all and sundry.STOP this activity immediately.

Paul Jackson
****
QLD 4221

Jacob, Janette – Sunday, 14 August 2022 – 18:37:05

Subject	Stop Origin fracking plans
From	Janette Jacob
Sent	8/14/2022 6:37:05 PM

You can’t do this!
You can’t let this happen!!
Origin will be destroying country, water and our climate if you allow the fracking to take place.
For years the traditional owners have been defending their country.
Don’t let them down now.
Stop the fracking!!

Janette Jacob
****
QLD 4872

Jacobs, Patti – Friday, 12 August 2022 – 21:00:18

Subject	Stop Origins Fracking Plans
From	Patti Jacobs
Sent	8/12/2022 9:00:18 PM

My name is Patti Jacobs, I am an Artist & I live in Byron Bay. Since I was informed about fracking, and then did some pretty thorough research, & was then involved, like most of my community in the Bentley anti fracking protest, I will forever raise my voice in protest against this abhorrent process, which kills the land, poisons the water, & destroys the air & the climate....& for what? to export gas to China? It is not even used in our country. It is a money making venture. Fracking of the Northern Territory shows No respect for the Indigenous Traditional Owners who oppose it. We need to put the demands of the Traditional Owners in front of the decision makers. I am asking the NT Government & the Department of Environment, Parks and Water Security to reject Origin's EMP. Especially in this day & age, we need to treat our precious resources as well as the Traditional Owners with respect.

Patti Jacobs
****
NSW 2481

Jacobs, Susan – Saturday, 13 August 2022 – 12:16:19

Subject	Stop
From	Susan Jacobs
Sent	8/13/2022 12:16:19 PM

Stop and think

Susan Jacobs
****
WA 6030

Jacomb, Brian – Saturday, 13 August 2022 – 15:31:13

Subject	brian@jacomblawyers.com.au
From	Brian Jacomb
Sent	8/13/2022 3:31:13 PM

We agree that Origin should not be allowed todo the frackinf proposed

Brian Jacomb
****
VIC 3039

Jakovich, Nathan – Thursday, 11 August 2022 – 23:01:53

Subject	No Go
From	Nathan Jakovich
Sent	8/11/2022 11:01:53 PM

Seriously guys, not blocking this project is a serious mistake & as politicians, you are 'custodians' of the land & the future of the NT.

Thus, allowing this project would be seriously undermining your duty to the people of NT & the greater Australian populace.

Please stop ALL new fracking projects

Nathan Jakovich
****
WA 6019

James, Jacqui – Thursday, 11 August 2022 – 14:45:34

Subject	Stop Origin's Fracking Plans
From	Jacqui James
Sent	8/11/2022 2:45:34 PM

To the Northern Territory's Department of Environment, Parks and Water Security. I humblely request that your Department reject the plans of Origin to commence Fracking on lands within the Northern Territory. Origin's plans for Frackjng will destroy sensitive and important environments, disturb and pollute waterways and water tables and contribute pollution to our already troubled and threatened climate. These plans will also cause extreme disturbance and threat to our Traditional Owners' custodianship of these lands by over riding their wishes for the lands' future stability.
With deep sincerity Jacqui James

Jacqui James
****
QLD 4674

James, Keri – Sunday, 14 August 2022 – 14:28:37

Subject	Fracking in the NT
From	Keri James
Sent	8/14/2022 2:28:37 PM

Please listen to First Nations Peoples - their water, heritage and the climate is more important than corporate profits.

Keri James
****
ACT 2612

James, Robin – Saturday, 13 August 2022 – 22:41:47

Subject	Stop Origins Fracking plans
From	Robin James
Sent	8/13/2022 10:41:47 PM

Please do not allow origins plans to Frack in the Northern Territory to go ahead. Water is our most valuable and finite resource which must be protected.

Robin James
****
VIC 3126

James, Susanne – Friday, 12 August 2022 – 18:35:35

Subject	Stop the fracking forever!
From	Susanne James
Sent	8/12/2022 6:35:35 PM

We have raped and pillaged the earth imagining it is a source of infinite resources and renewal, but now we're looking down a very scary barrel of extinctions and disasters. I cannot believe that companies are allowed to imperil our underground water supplies for the sake of finding more fossil fuel that is actually the very thing that is the problem! For goodness sake is there never go8ng tob3 a government that will have enough guts to call a halt to this?

Susanne James
****
NSW 2648

James, Tracey – Sunday, 14 August 2022 – 14:54:12

Subject	Please Reject Origin Energy's 12 New Fracking Drills
From	Tracey James
Sent	8/14/2022 2:54:12 PM

Everyone know how dangerous, impractical and outmoded fracking is; it comes with a high risk of:
1. polluted mine water entering groundwater and poisoning crops and livestock.
2. 'fugitive' carbon emissions escaping from the mine.
3. depleting scarce, clean water supplies due to the ridiculous amount of water needed per mine.

In 2022, there s no reason or excuse to frack anywhere in the world, let alone in outback Australia near or on First Peoples' lands.

Australia has ample renewable options which are cheaper, safer and non-invasive. Origin needs to be forced into doing the right thing, not perpetuating the wrong thing for its short term financial gain.

Please do the right thing for the people who elected you. Be brave. Be strong. Be on the right side of history and the planet.

Reject Origin's 12 fracking applications, please.

Tracey James
****
NSW 2000

James, Winsome – Sunday, 14 August 2022 – 07:08:38

Subject	Stop Origin fracking in NT
From	Winsome James
Sent	8/14/2022 7:08:38 AM

NT depart of Environment and Water
The fracking by Irigin has to be stopped immediately to protect the Environment and ensure that the water table is not ruined with the poisons and pressure used in Fracking

Winsome James
****
NSW 2233

Jamie – Sunday, 14 August 2022 – 12:50:59

Subject	Fwd: Important concerns re. Origin's latest Fracking proposal. Fw: Origin EMP on EPs 98 & 76
From	Jamie
Sent	8/14/2022 12:50:59 PM

Hi

I am writing this email to express my concerns that

1. Origin Energy executives are as crooked as a fish hook.

2. Also about Origin Energy's EMP and proposal to frack 12 new exploration and appraisal gas wells on the Amungee Mungee and Shenandoah East pastoral stations 50 km east of Daly Waters. I am opposed to fracking and its well researched and documented impact on the environment.

Overall, the known impact from fracking to the climate, local biodiversity, and to groundwater is enough to raise serious concerns about this proposal and the sugar-coating by Origin is of particular concern, but not unexpected.

I would like to see the Environment Minister refuse to consider this EMP and refer this EMP to the Environment Protection Agency under the Environment Protection act for a full and thorough assessment.

--

Jamie

Jansen, Karen – Thursday, 11 August 2022 – 18:45:02

Subject	origins fracking plans
From	Karen Jansen
Sent	8/11/2022 6:45:02 PM

I cannot believe that you would allow Origin to go ahead with their fracking plans..haven't they done enough to this country, are you bent on allowing them to ruin further land belong to our first Nation people.
Don't they make enough money gouging the public for the electricity and gas.
This has got to stop ??. Shame on you

Karen Jansen
****
NSW 2780

Jarvis, Bruce – Friday, 12 August 2022 – 21:41:05

Subject	Stop Origin's Fracking plans
From	Bruce Jarvis
Sent	8/12/2022 9:41:05 PM

Attn: Northern Territory Department of Parks, Environment and Water Security.
Although I live at the opposiite end of Australia I feel deeply that Origin's fracking plans are in essence against environmental protection and water security.
Please listen to the First Nation peoples who live in the area to be destroyed by Origin.
Yours sincerely,
Bruce Jarvis

Bruce Jarvis
****
VIC 3174

Jarvis, Helen – Thursday, 11 August 2022 – 14:34:59

Subject	No more fracking wells
From	Helen Jarvis
Sent	8/11/2022 2:34:59 PM

I wish to add my voice in objection to the planned new fracking wells in NT
Helen Jarvis
Catherine Hill Bay

Helen Jarvis
****
NSW 2281

Jarvis, Mukti – Thursday, 11 August 2022 – 15:16:34

Subject	Stop Origins fracking plans
From	Mukti Jarvis
Sent	8/11/2022 3:16:34 PM

To the Northern Territory Department of environment, parks and water security

Origin's proposed wells pose massive risks to water, cultural heritage, and our climate. Origin is being reckless and approval would destroy previous and important country, water and our climate. Causing irreparable damage and risk. It would also set a precedent that should not be allowed within Australia for fracking.

Fulfill your responsibilities with rigor and conscience.

Yours sincerely
Mukti Jarvis

Mukti Jarvis
****
VIC 3190

Jarvis, Narelle – Sunday, 14 August 2022 – 18:28:21

Subject	narellerhonda@gmail.com
From	Narelle Jarvis
Sent	8/14/2022 6:28:21 PM

To Northern TerritoryDepartment of Environment, Parks and Water Security,

I live in Northern Rivers of New South Wales where some years ago, our community objected to the plan to frack our farmlands and we were successful in having it stopped. The mining company had no social license to frack and destroy prime farmland.

The same applies in the Northern Territory. Traditional Owners must not be ignored. I support them in their stand against Origin and any other mining company which has plans to cause great harm through fracking. Origin has no social license.

Fracking drills threaten water quality, cultural heritage and our climate.

I implore you to reject Origin's fracking plans.

Narelle Jarvis
****
NSW 2480

Jean, Bernard – Sunday, 14 August 2022 – 13:15:25

Subject	Stop Origin's fracking plans
From	Bernard Jean
Sent	8/14/2022 1:15:25 PM

Dear NT Government,

I am an 80 year old retiree very concerned about the future of our planet climate and its impact on our future generations which includes my 2 sons and their families (3 grand daughters).

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
I am therefore asking the Department to reject Origin's EMP.

Yours sincerely

Bernard Jean

Bernard Jean
****
QLD 4565

Jeffery, Lee – Sunday, 14 August 2022 – 15:13:12

Subject	Reject Origin's fracking plans
From	Lee Jeffery
Sent	8/14/2022 3:13:12 PM

This is a submission to the Northern Territory Department of Environment, Parks and Water to reject Origin's plans to install and operate 12 new fracking drills.

My name is Lee Jeffery. I live in Queensland and have just returned from a visit to the NT. What I saw there was a huge, stunning landscape with so many reminders of 60,000 years of occupation and custodianship of the land by our First Nations' people.

I have learned that Origin is seeking to install another 12 exploratory drills and are not licenced to sell the gas from these new drills, yet are planning to do so. They are attempting to defend this sale of gas by claiming it will reduce emissions but the reality is these drills will remain operational for many years beyond the testing phase resulting in higher emissions.

Over many years, I have watched the efforts by Traditional Owners to protect their lands. Origin is not only threatening their lands, it will prove extremely detrimental to their survival and cultural activities. Fracking requires massive amounts of water and results in contaminated waste water. How will they manage that? There have been many reports of water and land contamination from fracking. This is a serious risk which has not been managed and has caused direct harm.

My understanding is our Traditional Custodians do not want fracking on their land for the reasons listed above. We must listen to their concerns and stop these fracking drills.

Full disclosure: I am not of Aboriginal heritage but I respect and strongly support their right to have their land left free of the poisoning and other damage caused by fracking.

Thank you for reading.

Kind regards,
Lee Jeffery
Redland Bay,Queensland

Lee Jeffery
****
QLD 4165

Jenkin, Susan – Sunday, 14 August 2022 – 10:58:36

Subject	Stop Origins Fracking Plans
From	Susan Jenkin
Sent	8/14/2022 10:58:36 AM

Northern Territory Department of Environment, Parks and Water Security.

To Whom It May Concern,

It is time to STOP! messing around with nature and ignoring the pleas of Indigenous and lay people alike.
This land is ancient and holds within it all that we need to survive along with every other creature and plant that relies upon it.
As it is, the Northern Territory is a unique and wonderful landscape that has natural water underground sustaining life above.
If that water becomes contaminated everything dies.
Fracking contaminates water that needs to be pooled and filled in leaving death for how far and how long?
The earth is a finely balanced ecosystem that is already struggling. How about we work toward healing it and benefit from the future abundance and uniqueness and have Australia join with France, Germany, Bulgaria, and the Netherlands and ban this controversial technology.
Also, the land is not yours to break. It is the sacred ground of the first Australians and all of us who love it.
Greed and profit are a short term fix that leaves emptiness in it's place.
Water is the future. Keep it clean and that is where the Northern Territory can rise up in the future.
Please think sensibly and not with wanton greed.

Yours Sincerely,
Susan Jenkin

Susan Jenkin
****
VIC 3799

Jennings, Heidi – Monday, 15 August 2022 – 22:08:59

Subject	Stop Origin Fracking
From	Heidi Jennings
Sent	8/15/2022 10:08:59 PM

I am writing this submission in regards to Origin's proposal to do 12 exploratory fracking wells on Amungee Mungee.

The NT is unique and deserves protecting.
The Traditional Owners have spoken and should not be ignored. They do not want this activity, as it will affect country.

The Pepper Recommendations are not fully implemented.
These recommendations were to be and should be implemented prior to any gas fracturing activity.

Water in the NT is mostly interconnected & a precious resource.
More studies should be done to determine whether the waterways will be affected.

The huge amount of water that Origin want for the production phase is beyond belief.
Water for Communities will be affected.
Where is the Communities water security?

The Waste water of the exploritory production, will be a hazard to the environment, whether stored or trucked away. Spillages occur.
-This is against the Pepper Recommendations.

*The Pepper Recommendation 7.12 for Wastewater was to be closed waste water storage, but this Recommendations was later changed to opened ponds, to suit the industry. This should never have been changed.

There is also No Baseline assessment for the region to ensure that the country, Waterways, flora & fauna won't be affected.

In Origin's EMP, they also intend to sell the exploratory gas, without having a production licence.

Unconventional Hydraulic Gas Fracturing is a dangerous technique and should not be used. It has no social licence.

The emissions that will occur from Hydraulic Gas Fracturing will be high & makes a mockery of the government's pledge to reduce emissions.

Please reject this proposal until the Pepper Recommendations are implemented in full, and further studies are completed.

Regards, Heidi Jennings.

Heidi Jennings
****
NT 0838

Jerkins, Judy – Thursday, 11 August 2022 – 13:08:09

Subject	Stop all Fracking
From	Judy Jerkins
Sent	8/11/2022 1:08:09 PM

Northern Territory Department of Environment, Parks and Water

Dear Sirs/Madam,

Fracking should not be permitted on any NT land. Fracking has major impact on land surfaces and what lies below.

Fracking is interference with nature and as such it risks the security of valuable water. Without a stable and safe water supply traditional people cannot continue to live on country, as is their right.

Solar power is Australia's future. It is less harmful to the environment and can be installed without damaging land that is precious to all Australians.

To promote and allow fracking, while there is a safer alternative, is disrespectful and negligent.

If Origin is given a green light to proceed it sets a prescedent that will be impossible to stop. Please vote NO.

Judy Jerkins
42 Laughtons Rd
Kalimna Vic 3909
(Ex resident of Darwin NT)

Judy Jerkins
****
VIC 3909

Jewell, Jill – Friday, 12 August 2022 – 19:56:45

Subject	Fracking
From	Jill Jewell
Sent	8/12/2022 7:56:45 PM

I strongly object to any fracking in the N.T

Jill Jewell
****
NSW 2060

Joanne, Deni – Saturday, 13 August 2022 – 18:38:01

Subject	Stop Origin's fracking plans
From	Deni Joanne
Sent	8/13/2022 6:38:01 PM

Stop all fracking that will potentially (potentially almost always means, will likely happen) destroy and contaminate drinking water sources. Fresh water is life, it is for future generations. It is not a resource or an asset that belongs to anyone to destroy!!!

deni joanne
****
NSW 2009

Jodell, Win – Friday, 12 August 2022 – 20:04:11

Subject	Stop origin's fracking plans now
From	Win Jodell
Sent	8/12/2022 8:04:11 PM

Please listen to Traditional Owner's concerns about their country. Mining for profit without consideration of climate change or the values and beliefs of traditional owners must end.

Win Jodell
****
VIC 3450

John, Chris – Saturday, 13 August 2022 – 17:43:51

Subject	Stop origin fracking
From	Chris John
Sent	8/13/2022 5:43:51 PM

You have no right to irreparably damage Australia.

chris john
****
VIC 3088

Johns, Mitchell – Thursday, 11 August 2022 – 18:52:25

Subject	Stop the fracking
From	Mitchell Johns
Sent	8/11/2022 6:52:25 PM

To the department,

I urge you on behalf of all Australians and the australian environment to stop Origin's plans to open new fracking drills.

Regards,
Mitchell Johns

Mitchell Johns
****
NSW 2166

Johnson, Gus – Sunday, 14 August 2022 – 17:01:39

Subject	Im against Fracking because its as Irresponsible as it is Greedy.
From	Gus Johnson
Sent	8/14/2022 5:01:39 PM

Please reject this irresponsible fracking proposal in the NT.
Beside the bleeding obvious of Climate Change, it violates the sovereignty, Allodial Title and law of First Nations people and elders to protect land, sky and water.

This is of the utmost importance to the biota, now and future generations.

Im against Fracking because its as Irresponsible as it is Greedy.

Yours sincerely,
Gus Johnson
31 William st
Bundanoon. NSW. 2578.

Gus Johnson
****
NSW 2151

Johnson, Hilary – Friday, 12 August 2022 – 16:09:59

Subject	Stop fracking
From	Hilary Johnson
Sent	8/12/2022 4:09:59 PM

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Setting regulations for companies is one thing but ensutrng they comply is another . There are so many examples of companies slipping through he cracks and then the damage is done . Water is precious in NT.
Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

Damage to the environment this way cannot be remediated . Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

This is not what we want for Australia . It must be stopped

Hilary Johnson
****
VIC 3070

Johnson, Louise – Thursday, 11 August 2022 – 17:49:26

Subject	Stop Origins Fracking Plan
From	Louise Johnson
Sent	8/11/2022 5:49:26 PM

When are you going to stop and listen? The planet needs you to stop so that our youth have a future!

Louise Johnson
****
NSW 2463

Johnson, Marilyn – Friday, 12 August 2022 – 14:41:12

Subject	stop Origin destroying our country
From	Marilyn Johnson
Sent	8/12/2022 2:41:12 PM

Leave the aboriginal elders responsible in caring for our country. Origin stop ignoring there experience

Marilyn Johnson
****
NSW 2527

Johnson, Peter – Saturday, 13 August 2022 – 10:21:40

Subject	Please reject Origin's EMP.
From	Peter Johnson
Sent	8/13/2022 10:21:40 AM

To the Northern Territory Government, Department of Environment, Parks and Water Security.

Dear Ministers
I am a retired veterinarian, a volunteer with a conservation organization and a grandfather of twin grandchildren.

The extraction of natural gas by the fracking process cannot guarantee the safety and security of groundwater resources from contamination caused by accidents and leakage. Fugitive emissions from gas wells contribute methane to the atmosphere which is significantly more potent as a green house gas than the carbon dioxide that is released as the gas is burned. We have received the report on the parlous state of our environment. There is no excuse to continue the damaging practice of gas extraction by fracking. We don't have decades to reverse the effects of climate change, we are out of time and I urge you to act now by refusing Origin Energy's plans to extract gas by fracking in the Northern Territory.

Thank you for your time,
Yours Sincerely,
Dr Peter Johnson

Peter Johnson
****
NSW 2075

Johnston, Hilary – Saturday, 13 August 2022 – 18:15:54

Subject	Fracking in the NT is irresponsible!
From	Hilary Johnston
Sent	8/13/2022 6:15:54 PM

To: The Northern Territory Department of Environment, Parks and Water Security.

I am strongly opposed to Origin Energy fracking in the Northern Territory, or anywhere else.

Unlike Europe, Australia has plenty of options for generating power without needing more gas or oil, including the currently cheapest form, solar and wind.

If you haven't noticed the dire effects of global warming you must have your head in the sand. Everyone knows by now that we just can't afford any more pollution from burning gas or oil. I'm an old bloke now, so I will be dead before the worst hits us but I have children, grandchildren and great-grandchildren. You need to think about what will happen to your descendents.
NO MORE FRACKING!
Hilary Johnston
64 Marine Terrace Fremantle WA

Hilary Johnston
****
WA 6160

Johnston, Les – Thursday, 11 August 2022 – 19:46:28

Subject	Proposed fracking by Origin will cause massive environmental damage
From	Les Johnston
Sent	8/11/2022 7:46:28 PM

NT Department of Environment and Energy
I write based on my experience as an former environmental regulator of fracking activities in NSW. These past activities have caused significant environmental damage where that activity took place.
The Government of the day instructed staff to not raise any questions relating to impacts on groundwater pollution in both the short and long term.

The NSW Government has reduced the standard requirements for the management and disposal of solid and liquid wastes. These imposed requirements provide substantial savings to the proponent at the expense of the environment and landowners.

The Beetaloo proposal demands greatly relaxed environmental conditions and large tax payer subsidies and grants. This is not acceptable and bad public policy.

I urge the Department to reject this proposal on the basis of its environmental impacts.

Les Johnston
****
NSW 2041

Johnston, Noelle – Friday, 12 August 2022 – 18:12:37

Subject	Reject Origin's Plans to open new fracking drills in the N.T.
From	Noelle Johnston
Sent	8/12/2022 6:12:37 PM

Fracking for oil in Australia puts our water resources at risk of bein.g polluted and used unnecessarily.
Fracking here would be setting a bad precedent for other companies to follow Origin's example if they are allowed to proceed with their plans.

noelle johnston
****
WA 6157

Johnston, Raymond – Friday, 12 August 2022 – 09:18:22

Subject	Stop OriginsFracking plans
From	Raymond Johnston
Sent	8/12/2022 9:18:22 AM

Don’t push Origins illegal fracking plans through without proper approval of people most affected and closely effected.

Raymond Johnston
****
NSW 2430

Johnston, Sue – Thursday, 11 August 2022 – 14:39:27

Subject	Stop Origin Energy Fracking
From	Sue Johnston
Sent	8/11/2022 2:39:27 PM

To the Northern Territory Department of Environment, Parks & Water Security.
Please reject the proposed plans by Origin to develop new fracking wells in the NT.
I am very concerned about how these wells will impact the quality & availability of water to the indigenous communities in the area.
Yours sincerely,
Sue Johnston

Sue Johnston
****
VIC 3070

John-Story, Judith – Thursday, 11 August 2022 – 12:23:00

Subject	Stop Fracking plans
From	Judith John-Story
Sent	8/11/2022 12:23:00 PM

Dear Sir
I'm writing to express my distress at the NT plans to approve Origin's new fracking wells. There is too much evidence against fracking - the danger to water, destruction of country and the ultimate effects on climate.
I ask you not to approve the application.
Yours,
Judith John-Story

Judith John-Story
****
NSW 2041

Jones, Kirsty – Saturday, 13 August 2022 – 15:09:49

Subject	kirsty_jones@hotmail.com
From	Kirsty Jones
Sent	8/13/2022 3:09:49 PM

My name is Kirsty Jones and I work as a civil engineer in the water industry. As an industry we are concerned and as a nation I think we should be ashamed by the fact that indigenous communities often do not have access to the safe drinking water that those of us living in towns and cities take for granted - https://www.abc.net.au/news/2022-08-11/remote-water-quality-doesnt-meet-health-guidelines-indigenous/101318826 & https://www.wsaa.asn.au/news/release-preliminary-report-improving-water-services-remote-first-nations-communities
The plans by Origin to carry out additional fracking in the NT is only going to continue to negatively impact on what is already a terrible situation. Please reject Origin Energy's EMP

Kirsty Jones
****
NSW 2304

Jones, Lester – Thursday, 11 August 2022 – 17:49:41

Subject	Fracking in the Northern Territory by Origin
From	Lester Jones
Sent	8/11/2022 5:49:41 PM

I respectfully request that you use your considerable authority to prohibit Origin or any other company from fracking in the Northern Territory due to its effect on the water table, the land itself and Aboriginal sacred sights.
Yours faithfully,
Lester Jones

lester Jones
****
NSW 2112

Jones, Pamela – Thursday, 11 August 2022 – 15:44:17

Subject	Despair re fracking plans by Origin.
From	Pamela Jones
Sent	8/11/2022 3:44:17 PM

Northern Territory Department of Environment, Parks and Water Security.
I have the honour of addressing you regarding your particular responsibilities for the environment and water security.

As a resident of South Australia I am aware of the fragility of water supplies and am greatly concerned at the volume being taken from the environment in the plans for the twelve fracking drills by Origin Energy. There is also the problem of the waste water being disposed of interstate, and hence these plans involve more than Territorians and relevant states should be alerted and asked for comment.

Further, gas as an energy source seriously violates the possibility of halting the disastrous climate change in this country. There are so many other ways of supplying energy, and Origin's gas plans are hugely detrimental to Australians. While possibly profitable to Origin's American and Chinese shareholders, actually gas energy plans are also detrimental to the citizens of those countries and of the world.

You are tasked with a monumental decision. Please heed the wisdom of the Traditional Owners. They have not only wisdom, but also rights. They have been defending their country against fracking for years now. When there are new technologies, e.g. Tasmania's wave generation of power, why would the Territory be so backward in ever considering this disastrous plan.

Pamela Jones
****
SA 5023

Jones, Robert – Saturday, 13 August 2022 – 11:34:20

Subject	Stop origins fracking plans
From	Robert Jones
Sent	8/13/2022 11:34:20 AM

To the northern territory department of environment parks and water security

Please stop approving climate destroying industries.
Your own food supply is threatened and the long term damage done far outweigh any transient benefit.
Our disasters are real and increasing, you will be seen as contributing and will be hated by present generations of young people. Both your own and our futures depend on your decisions. Do the right thing, what your gut tells you and halt all new fracking and climate destroying industries.
Thanks
Rob Jones
777 Cowal Creek Road Bellangry NSW 2446

Robert Jones
****
NSW 2446

Jones, Steve – Friday, 12 August 2022 – 14:24:27

Subject	Stop Origin's fracking plans.
From	Steve Jones
Sent	8/12/2022 2:24:27 PM

Fracking will destroy the ground water just for the sake of getting the oil. This is greed while ignoring the needs of the environment and the Indigenous people who were here before us. Stop this insanity.

Steve Jones
****
TAS 7249

Jones, Terry – Saturday, 13 August 2022 – 15:55:21

Subject	NO Fracking and destroying our precious heritage and delicate ecosystem
From	Terry Jones
Sent	8/13/2022 3:55:21 PM

Short term financial gain for corporations and long term loss and suffering for the rest of the country.
Please don't destroy or children's future.
Our generation should ensure this land is preserved for ALL and future generations and not exploited by the few financially powerful corporations and oligarchs.
Stop the Fracking plans now.

Thanks
Kind Regards
Terry Jones

Terry Jones
****
VIC 3802

Jones, Trish – Friday, 12 August 2022 – 17:11:41

Subject	Stop the fracking ??
From	Trish Jones
Sent	8/12/2022 5:11:41 PM

With climate change already being an major issue, fracturing the earth ever greater with fracking is not the way forward to sorry.

Trish Jones
****
VIC 3138

Jongh, Mara – Saturday, 13 August 2022 – 10:06:24

Subject	No fracking - Listen to NT traditional owners
From	Mara De Jongh
Sent	8/13/2022 10:06:24 AM

To: Northern Territory Department of Environment, Parks and Water Security

Origin plans to open twelve new fracking drills in the Northern Territory, wells which threaten water, cultural heritage, and also subsequently affect the climate. This is a blow to the Traditional Owners who have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and the climate, but it would be setting a precedent for other fossil fuel based corporations to do exactly the same.

I urge the NT Government to listen to the voices of the Traditional Owners and show respect for their demands regarding the use of their land and water resources and take into consideration the overall effects on the climate.

Mara de Jongh
****
NSW 2575

Joseph, David – Thursday, 11 August 2022 – 14:07:28

Subject	No to Origin's Fracking
From	David Joseph
Sent	8/11/2022 2:07:28 PM

Hi, my name is Dave Joseph from Melbourne and I'd like to take this opportunity to address my concerns over fracking in the NT. It is clearly obvious from examples in other parts of the world that fracking is a reckless and dangerous operation and should be abolished immediately. The NT government also has a responsibilty to the traditional custodians and to uphold their wishes. Cheers Dave

david joseph
****
VIC 3015

Joyce, Lee – Saturday, 13 August 2022 – 08:58:01

Subject	Stop Origin from Fracking
From	Lee Joyce
Sent	8/13/2022 8:58:01 AM

To the Northern Territory Department of Environment of Parks and Water Security:

Traditional Owners of THEIR Country should be entitled to care for THEIR Country without fracking corporations destroying their land, water and climate.

Gas will NOT REDUCE emissions. It will instead harm the environment further, risking country water & climate. I urge you to reject any further "exploratory" fracking wells...

Lee Joyce
****
WA 6071

Jt, Ian – Sunday, 14 August 2022 – 09:26:20

Subject	Origins Fracking Plans NT
From	Ian Jt
Sent	8/14/2022 9:26:20 AM

I am a 60yo father of two who is transitioning into self funded retirement. Though I am based in Melbourne, I am increasingly adventure travelling to northern Australia and just completed a motorcycle ride to Cape York. The natural beauty of this country is unparalleled and should be enjoyed by all. On occasions, my back country adventures afford a unique opportunity to speak with local communities (most recently the Wik peoples in the Cape York Peninsula). A common theme with traditional owners that I have encountered is an increasing concern about groundwater contamination and the devastating effect that contamination can have on local communities.

Traditional owners have been defending their country against the likes of Origin for many years. If the NT Government approves current fracking plans, it would not only be paving the way for Origin to frack and destroy country, water, and the climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

I am respectfully writing to you today to asking the Department to reject Origin's EMP. Fracking is destructive and non-conducive to a bright and healthy future for all Australians.

Thank you for any consideration that you can afford this email.

Ian Jt
****
VIC 3032

Juraszek, Paul – Saturday, 13 August 2022 – 23:07:14

Subject	stop origins reckless fracking plans
From	Paul Juraszek
Sent	8/13/2022 11:07:14 PM

it destroys water, environment and climate

paul juraszek
****
VIC 3757

K, Sarah – Friday, 12 August 2022 – 15:20:27

Subject	Stop Origin's Fracking Plans
From	Sarah K
Sent	8/12/2022 3:20:27 PM

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Sarah K
****
NSW 2577

Kaan, Hessel – Saturday, 13 August 2022 – 14:05:24

Subject	Stop fracking plans by Origin
From	Hessel Kaan
Sent	8/13/2022 2:05:24 PM

We must heed the warnings by indigenous elders re the risks to ground wates

Hessel Kaan
****
NSW 2515

Kable, Jim – Sunday, 14 August 2022 – 14:20:37

Subject	Stop Origin's fracking plan and already dug (and illegally so) wells
From	Jim Kable
Sent	8/14/2022 2:20:37 PM

Northern Territory Department of Parks etc

Please halt Origin's fracking in the NT. It is not good for the country - it is not good for the environment - it is riding roughshod over the wishes of First Australians communities wishing to protect their heritage and futures.

Jim Kable
****
NSW 2281

Kalish, Stephanie – Saturday, 13 August 2022 – 13:39:32

Subject	Stop Origin's Fracking in the Northern Territory
From	Stephanie Kalish
Sent	8/13/2022 1:39:32 PM

Northern Territory Department of the Environment, Parks, Water and the Environment,

I am deeply concerned about the possibility of further fracking in the Northern Territory and damage to the water table and lands of the Traditional Owners. I support the Traditional Owners in stopping this proposal in it's tracks. Undue damage to their lands and the environment on the whole in light of the negative impacts fracking has on climate and the direct effects on the land and water and ecosystems.
Origin as a company has a bad track record on many accounts and it is time to hold them to account rather than just approving proposals and collecting fines when they breach their contracts.

Stop fracking in this fragile and important land and live up to acknowledging Traditional Owners and their wishes, not just pay lip service to them and be beholden to big fossil fuel companies.

stephanie Kalish
****
ACT 2600

Kalk, Liz – Monday, 15 August 2022 – 12:42:44

Subject	Fracking
From	Liz Kalk
Sent	8/15/2022 12:42:44 PM

We as a country need to stop fracking so as to protect the land the flora and fauna and our indigenous people for future generations

Liz Kalk
****
VIC 3021

Kamener, Petra – Saturday, 13 August 2022 – 14:49:08

Subject	fracking in the Northern Territory
From	Petra Kamener
Sent	8/13/2022 2:49:08 PM

we have been an origin customer for years paying the extra levy for green energy. i am appalled to hear that origin is planning to open 12 new fracking wells in the NT. i am concerned for the environment and our climate.
stop fracking now

Petra Kamener
****
VIC 3186

Kanost, Laurel – Sunday, 14 August 2022 – 09:32:27

Subject	Origin Energy - stop the fracking plans
From	Laurel Kanost
Sent	8/14/2022 9:32:27 AM

NT Dept Environment Parks and Water Security

Fracking is destructive, uncontrolled use of land resources, land which belongs to all Australians, and the first Australian people in particular. The results of fracking impact all Australian people through destruction and or threat to our clean water sources, from poisons involved in fracking. California is sinking through its destruction of its water table, and we are heading there also by government permitted corporate desecration of natural resources. The government acts for the people, and whether or not the people have spoken, fracking has such incredible potential for environmental harm (in particular because the oversight and control of the process once started is impossible) that on the basis of risk:reward and potential for harm, the risk analysis should result in stopping of the fracking process. These principles are put upon corporates throught Australia and the world, but are not applied for the benefit of the earth resources being consumed by for-profit activities. Earthquake risk to the people of fracking is too high. The risk to NT water supplies is too high. The impact of the failure to implement fracking controls is too high to allow companies rights to drill without implementing the costly recommendations of the Pepper Inquiry.

Laurel Kanost
****
VIC 3181

Karp, Celia – Saturday, 13 August 2022 – 14:50:35

Subject	No more Coal Seam Gas activity impacting our environment including the Murray Darling Basin. Political will to say no to Fossil Fuel Cartels! It's simple stop before too late and cause irretrievable damage to our climate!
From	Celia Karp
Sent	8/13/2022 2:50:35 PM

The Northern Territory Government needs to listen to the Traditional Owners of the land and not allow Origin Energy to frank any wells. Destruction of precious aquifers and our environment in general belongs to all Australians. Climate change is a reality and we are the driest continent in the world.
STOP DRILLING FOR GAS BEFORE ITS TOO LATE!

Celia Karp

Celia Karp
****
QLD 4507

Karringten, Shae – Sunday, 14 August 2022 – 12:05:20

Subject	Stop Origin's Fracking Plans
From	Shae Karringten
Sent	8/14/2022 12:05:20 PM

Attention Northern Territory Department of the Environment, Parks and Water.

The data is out, fracking is too environmentally damaging to be a method that is continually used. Origin's plans should be halted. Fracking is not a good thing for any country. Do the right thing.

Shae Karringten
****
QLD 4032

Katz, Lois – Sunday, 14 August 2022 – 15:23:14

Subject	No New Fracking Drills in the Northern Territory: Tell Origin its Time Is Up
From	Lois Katz
Sent	8/14/2022 3:23:14 PM

My name is Lois Katz. I live in Glebe, NSW. I am writing this submission against Origin's proposal to install 12 new fracking drills because the evidence is clear: we need to start to respect the natural environment or pay the consequences. Fires, floods and loss of native animal habitat are evident around the world. We humans are paying a terrible price for our recklessness. We, in Australia need to do our bit to help repair our Earth.
For years the traditional owners in the Northern Territory have been against new attempts to frack in their country in order to try to protect their water supply and cultural heritage sites.
I think the evidence is clear. We need to start to respect our planet and stop these invasive procedures that cause so much ecological damage.
Please, please reject this fracking proposal.
Sincerely,
Lois Katz

Lois Katz
****
NSW 2037

Kavoyianni, Sandy – Friday, 12 August 2022 – 23:15:05

Subject	Stop Origin's fracking plans
From	Sandy Kavoyianni
Sent	8/12/2022 11:15:05 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

sandy kavoyianni
****

Kay, Jacqui – Thursday, 11 August 2022 – 20:52:12

Subject	Please N T Gov't stop all new fracking plans.
From	Jacqui Kay
Sent	8/11/2022 8:52:12 PM

We are in am S O S position to protect our climate. It is paramount. The terrible national and international fires and floods, my UK family have been battling 40 degree heat a normally much cooler U.K.

The Gas Mining industry appears less than natural, the harsh chemicals used including radiation , huge water volumes force pumping those chemicals down, when it reaches the rock below, will crack generating rock fissures then drawing the oil substance to the top using enmasse water pressures to get the substance to rise to the top, the gas excesses enter tall built chimneys called flares and flare gas flames whose heat rises into the surrounding atmosphere for as long as required, there is always a small dam containing this highly toxic poisonous substance, fatal to wild animals die drinking or flying into it. The water usage per well is huge, Farmer Brian Monk of Chinchilla Queensland discovered, water bubbling in his paddock, his home use water became contaminated, a young bathed grandchild from his bath was covered in red rings around the child's body. another Chinchilla successful farmer his bores ran dry with a gas company operating on his property, his name was George Bender, he struggled with the gas company, finally he committed suicide he knew his farm was finished, You will find him talking on U Tube before he died. Glen Lazarus talked of a Royal Commission, I have not heard about either for years now. Glen's name I was unable to locate on the long ballot paper approx., two federal elections ago. My heart sank. I was keen for Glen Lazarus and the Royal Commission into the gas industry.

I can only hope and pray the gas industry will be taken over by the several clean energies which has grown now teaming with other new energies, sea wave the newest, Geo Thermal has been keeping Canberra Library warm for decades. Should a phone call to Elon Musk to set up his power solution for each Australian State, as he has in South Australia it would be nice to be rid of the Gas & Coal Industries for our living safety now and in the future.

On tonight's news the talk of a long gas pipeline to run through NSW regional areas, when we are talking of no more fossil fuel and winding it down.

Less Gas industries expansion, the less climate pollution and emissions putting us and animal life at high danger survival risk.

Many thanks
Yours sincerely
Jacqueline Franklin
post code 2403
11.08.2022

Jacqui Kay
****
NSW 2355

Keane, Cate – Saturday, 13 August 2022 – 14:25:29

Subject	Stop Origins fracking plans
From	Cate Keane
Sent	8/13/2022 2:25:29 PM

My name is Cate and I an sick of profits being put before people. If there are so many reasons this is not good for our country. the water table is very good at transporting and contaminates and is not worth playing with.

Please do not risk out future

Cate Keane
****
VIC 3515

Kearney, Bev – Monday, 15 August 2022 – 07:25:55

Subject	Stop origins fracking plans in the NT
From	Bev Kearney
Sent	8/15/2022 7:25:55 AM

stop Origin from more fracking plans in the NT. Fracking threatens the water supply in already a low rainfall area, cultural heritage and our climate. We cannnot live on gas, clean plentiful water and food sustains us. the thought of more fracking in the NT makes my blood run cold

Bev Kearney
****
NSW 2640

Kearney, Dianne – Saturday, 13 August 2022 – 10:12:48

Subject	Stop Origins Fracking Plans
From	Dianne Kearney
Sent	8/13/2022 10:12:48 AM

To N T Parks and Wildlife Authorities:
Please do not allow fracking in our country. If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. And it it is so destructive to the land the climate and all the species. It would have widespread effects contributing to a planetary disaster. We must think globally and not allow the mindless greed to destroy our beautiful planet

dianne kearney
****
VIC 3028

Kearney, Salina – Saturday, 13 August 2022 – 08:02:50

Subject	Fracking is so destructive
From	Salina Kearney
Sent	8/13/2022 8:02:50 AM

Each State and Territory in Australia must take responsibility in acting towards better decisions in protecting our planet not just words. Surely, Origin's profit margins and government tax earnings shouldn't superceed the wellbeing of the environment and communities that suffer the consequences.
Greedy greedy greedy

Salina Kearney
****
QLD 4880

Keating, Bernie – Saturday, 13 August 2022 – 18:44:12

Subject	Stop Origin Fracking in the NT
From	Bernie Keating
Sent	8/13/2022 6:44:12 PM

To NT Dept of Environment, Parks and Water Security.

Origin's plans willdestroy country, water and our climate. Please do not allow this to happen.

Bernie Keating
****

Bernie Keating
****
VIC 3124

Keatley, Vera – Friday, 12 August 2022 – 22:00:20

Subject	Stop Origin
From	Vera Keatley
Sent	8/12/2022 10:00:20 PM

Dear Northern Territory Department of environment and water security.

You may be aware that 12 fracking projects are underway and about to be approved. Fracking has devastating effects on country. It is really like a rape. Polluting our water and using what can be taken with no regards to country, traditional owners connection to their land.
In a time where we must transition to clean energy, I implore you to do anything in your power to stop these projects to go ahead.

Thank you.

Vera Keatley

Vera Keatley
****
QLD 4575

Keebaugh, Shannon – Sunday, 14 August 2022 – 10:50:06

Subject	Stop Fracking in NT
From	Shannon Keebaugh
Sent	8/14/2022 10:50:06 AM

I gravely concerned that Origin is fracking in the fragile eco systems of NT. There is much evidence that fracking is environmentally damaging, specifically that it impacts delicate underground water systems. Our world is gravely at risk due to climate change resulting cataclysmic weather events, any risk to water systems, waste, mis-use, pollution must be banned. Aboriginal elders and custodians want the ban on fracking in NT reinstated immediately. Stop Origin from doing irreversible damage.

Shannon Keebaugh
****
VIC 3056

Keefe, Caron – Saturday, 13 August 2022 – 09:11:56

Subject	Stop fracking, the water supply is too important
From	Caron Keefe
Sent	8/13/2022 9:11:56 AM

Enough wreckage in Aboriginal land. That ground water is very
important, more important than gas.
Mine where coal is already being mined and improve chimney carbon capture for a decent electricity supply with the smallest footprint.

Caron Keefe
****
NSW 2469

Keith, Don – Saturday, 13 August 2022 – 12:00:38

Subject	Stop Origins fracking plans.
From	Don Keith
Sent	8/13/2022 12:00:38 PM

Northern Territory Department of Environment Parks and Water Security.
Climate Change is already causing bush fires and floods to be catastrophic beyond our nations ability to cope. While Climate Change is a global problem, Australia should at the forefront of Climate Change action and not the laggard we currently are. As well as needing to cease new fossil fuel projects , fracking threatens ground water on which first nations people depend. Surely it is time first nations people were given security for their water and just consideration of issues that affect them.

Don Keith
****
QLD 4511

Kelder, Jo-Anne – Friday, 12 August 2022 – 10:51:39

Subject	Origin must not be allowed to frack
From	Jo-Anne Kelder
Sent	8/12/2022 10:51:39 AM

Short term thinking on fossil fuels will kill our planet. Allowing fracking in the Northern Territory will be another step on the way to disaster for children, grandchildren and possibly NOT for great grandchildren if country is not habitable.
Please do not make decisions that will irrevocably destroy country that the Traditional Owners rely on and belong to. This is not ok.
kind regards,
Jo-Anne Kelder

Jo-Anne Kelder
****
TAS 7053

Kelly, Ann – Sunday, 14 August 2022 – 19:44:10

Subject	Stop fracking
From	Ann Kelly
Sent	8/14/2022 7:44:10 PM

Origin Energy wish to frack by digging 10 wells goes against the mounting evidence of this destructive practice.

Traditional Owners reject the use of country this way. They protect Country.
Millions of Australians agree with them.

The time of reckless use of water are over. Fracking requires huge amounts of water.

Australia and the rest of the world need clean water not water that is so contaminated it has to be buried deep in the earth.

Water is our most precious resource.

Ann Kelly

Ann Kelly
****
NSW 2749

Kelly, Jane – Sunday, 14 August 2022 – 15:14:47

Subject	Stop Origin fracking
From	Jane Kelly
Sent	8/14/2022 3:14:47 PM

Allowing Fracking is insane. It destroys the watertable, adds undisclosed chemicals to water, pollutes Country, destroys nature and is against the wishes of the indigenous people and all who value nature. We are in a climate emergency! Stop Origin or any other company fracking our country and precious water

Jane Kelly
****
QLD 4383

Kelly, Sue – Friday, 12 August 2022 – 06:15:07

Subject	Say no to more fracking in the NT
From	Sue Kelly
Sent	8/12/2022 6:15:07 AM

Please stop Origen from destroying our environment further with more fracking.
They profit from our destruction and steal from our children's future.
Please protect our habitat and prevent them from causing us all more harm

Sue Kelly
****
NSW 2478

Kelso, Lyn – Thursday, 11 August 2022 – 14:27:09

Subject	Stop Fracking by Origin
From	Lyn Kelso
Sent	8/11/2022 2:27:09 PM

My name is Lyn Kelso. I have lived in the Northern Territory for almost 30 years. I am very concerned about the damage done during the fracking process to the underground water table as well as triggering earthquakes. Please reject Origins application to frack.

lyn kelso
****
NT 0812

Kely, Daydd – Thursday, 11 August 2022 – 15:25:27

Subject	Fracking is no solution...
From	Daydd Kely
Sent	8/11/2022 3:25:27 PM

I am an Australian from the south, but have spent considerable time in the Territory and have many friends there. It astounds me that Origins fracking plans are even under consideration, let alone that they may be approved. Against all the scientific warnings, against the widespread wishes of the traditional owners, against the majority of public opinion that we need to act to counter the real and present danger of climate change, these proposals keep coming.
Its time, its actually way past time that we put these projects out to pasture. They are no longer appropriate, there is no social license to permit such proposals which have many identifiable and manifest problems ranging from the impact on local water systems, to the unwanted incursion on traditional lands, to the release of vast amounts of greenhouse gases, to name a few...
We need, as a country to say no! We need to stop listening to the false narratives of economic salvation these companies bring, to their specious claims that these projects are somehow helpful, when in fact corporate greed is the base driver. The political class need to pay heed to the evident will of the people , but more vitally to the dire warnings of the scientific community.
Sadly my child is to inherit a more dangerous and uncertain world regardless of what happens here, we are so far behind addressing these issues already. But that is no reason to continue down the path we have been going, its a reason to do better, to pay attentions, to be actually mindful of the future generations who will bear the burdens of these decisions... because it is already a heavy burden...
Please heed the call for caution, please deny Origin Energy and all these companies so keen to exploit these areas for short term gain. Please think of the long term when decisions are being made. Now is the time to say no!

daydd kely
****
VIC 3451

Kemke, Mignon – Thursday, 11 August 2022 – 14:10:35

Subject	Origins Fracking Plans MUST be stopped
From	Mignon Kemke
Sent	8/11/2022 2:10:35 PM

To the Northern Territory Department of Environment, Parks and Water Security,

Hi, my name is Mignon, as a retired educator, I have taught about the changing climate for well over 30 years! It has long been known that our actions have and continue to cause drastic changes in our weather, the climate and our lives. It is now at a point where if we don't take drastic action, we will ruin our world entirely.
As custodian of the Northern Territory and its environment, You have a job to nurture and protect its lands and waterways. N.T's unique environment must remain as pristine as it can be. We are already seeing the devastation of weather change throughout the country and to add in any way to this would be absolutely and totally irresponsible.
This is a submission to DEMAND that you STOP Origin's reckless fracking plans. Traditional owners, the true land carers of this country have been staunchly defending theirs and our country against Origin for years.

We know that fracking causes huge carbon emissions both in the drilling of the gas and the burning of it as a commodity. To drill requires mega litres of water which a dry country like Australia cannot afford to waste. taking it from Gum Ridge would mean devastation for that area. It also makes millions of litres of waste water. We also know that fracking ruins ground water which is vital to Australia's overall water needs.

Our land is unique and MUST be protected at all times from powerful companies who only see it as a source for making profit. PLEASE, Please, reject Origin's EMP. The EMP doesn't account for the environmental impact nor does it implement the recommendations of the Pepper enquiry. It proposes to cause toxic water waste without any solution to clean it up and will produce hundreds of thousands of greenhouse emissions into the environment.

I remind you that you are the custodians of the environment at present, and any plans that you approve now will resonate well beyond your tenure, and even your life. you MUST NOT allow the beautiful Northern Territory environment to be destroyed.

I beg you to PLEASE reject Origin's EMP.

Yours Sincerely,

Mignon Kemke

Mignon Kemke
****
VIC 3153

Kemp, Melody – Saturday, 13 August 2022 – 19:33:45

Subject	Simply not on
From	Melody Kemp
Sent	8/13/2022 7:33:45 PM

Fracking has a natty punch to it as a word. it does not reflect that is the practice of letting climate toxic methane into the atmosphere and later into pipes.
I must say that the pursuit of profit can never be an excuse for destroying our world. It appears more like laziness lack of foresight and innovative skills. Origin should be part of the solution not an accelerator of the problem

Melody kemp
****
QLD 4171

Kennedy, Barbara – Friday, 12 August 2022 – 12:23:10

Subject	Stop fracking in NT
From	Barbara Kennedy
Sent	8/12/2022 12:23:10 PM

Fracking threatens water which is Australias most precious commodity.No use saying we were careful, if an accident happens it is too late. Better not to frack in the first place
Please reject Origin's plans for 12 new wells
Sincerely
Barbara Kennedy

Barbara Kennedy
****
NSW 2075

Kennedy, Dianne – Sunday, 14 August 2022 – 17:14:46

Subject	Stop fracking plans
From	Dianne Kennedy
Sent	8/14/2022 5:14:46 PM

I am a 75 year old pensioner who has worked as a teacher in Tasmania with Aboriginal Training Programs for many years prior to my retirement.
I have been absolutely alarmed and disappointed to note that Traditional Owners are once again having their land, water, and culture threatened by Origin's fracking plans in NT, and at a time when our climate is under threat. This sets a dangerous precedent for other fracking companies to follow suit.
Water is the lifeline to any community, especially those in remote areas, and yet the NT Government seems to not care that fracking, which has a proven bad record across the globe, could do irreparable harm both to the land, water and to the lives of people.
Fracking on Traditional Lands also damages sites held sacred for thousands of years, showing a complete lack of understanding and respect for our First Nation citizens and the whole of Australia which, finally, has set a target for a cleaner and more sustainable future for generations to come.
Please make sure that our indigenous citizens are listened to, and not sacrificed in the name of profit for Origin or any other company who see only dollars for a few, with no regard for the sacredness of country or the lives of Traditional Owners.

Yours sincerely,
Dianne Kennedy

Dianne Kennedy
****
TAS 7306

Kenner, Kate – Thursday, 11 August 2022 – 18:26:13

Subject	Stop fracking plans for 12 new drills
From	Kate Kenner
Sent	8/11/2022 6:26:13 PM

Twelve new fracking drills in the Northern Territory. The world, because what happens in the NT does not affect just the NT but the world, is experiencing wildfires, floods, heat, and whatever else nature can do and by allowing these drills is irresponsible and unethical. The only ones who will benefit are those making financial gains or maybe currying favors. The environment, wildlife, and people, especially those who live near there, will all suffer the consequences-polluted water and more-and it is time to do what is right for everyone and not just for fossil fuel companies and these who make money from this. It is time to say no to the companies that have far too much money and power and do what is right. Just say no.

Kate Kenner
****
VIC 3915

Kent, Robert – Thursday, 11 August 2022 – 17:38:27

Subject	No drills for Origin!
From	Robert Kent
Sent	8/11/2022 5:38:27 PM

To the NT Government,
Any new fracking drills for Origin will not only destroy water wells, and the lives of those dependent on them; but ultimately the lives of all Australians through exacerbated and uncontrollable climate change.
Take the correct and moral action then. Deny Origin, defend Traditional Owners and save Australia from further catastrophic climate damage and complete chaos!

Robert Kent
****
QLD 4184

Kerber, Peter – Saturday, 13 August 2022 – 07:16:33

Subject	Stop Origin (or anyone), fracking in the NT
From	Peter Kerber
Sent	8/13/2022 7:16:33 AM

The NT government has an opportunity to show that it is progressive and cares about people and the environment. They can either kowtow to big business and give them short term profits (with no return to the people). Or the can protect the long term integrity of country and secure the future of countless generations.

The NT, in particular, has a tremendous opportunity to harness its sunshine, wind and tidal movements to produce free sustainable energy for all. This is the future. Be brave. Grasp it. No fracking!

Peter Kerber
****
VIC 3374

Kerr, Andrew – Friday, 12 August 2022 – 07:37:40

Subject	No fracking by origin
From	Andrew Lawson Kerr
Sent	8/12/2022 7:37:40 AM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Andrew Lawson Kerr
****
VIC 3145

Kerr, Lakshmi – Monday, 15 August 2022 – 07:27:45

Subject	Stop Origin's Fracking
From	Lakshmi Kerr
Sent	8/15/2022 7:27:45 AM

It is time to start leading change and making sustainable decisions. Stop approving intensive energy projects like fracking and start investing in renewables.

Lakshmi Kerr
****
QLD 4178

Kersten, Elizabeth – Sunday, 14 August 2022 – 09:30:21

Subject	Stop fracking in Northern Territory
From	Elizabeth Kersten
Sent	8/14/2022 9:30:21 AM

To whom it may concern , I am writing to beg of you to stop origin energy from fracking . After all it leaves the precious water poisoned and the land destroyed and this is apart from the increased emissions .

Elizabeth Kersten
****
VIC 3351

Keys, Penelope – Friday, 12 August 2022 – 17:39:32

Subject	keys.penelope@gmail.com
From	Penelope Keys
Sent	8/12/2022 5:39:32 PM

You need to listen to the indigenous people of the area and the local people, to not let Origin do these fracking plans. You must look at and assess these environmental issues. You cannot destroy our precious resource of water, once it is contaminated it will affect all wildlife, and people. Do not proceed.

Penelope Keys
****
VIC 3940

Khan, Shahbaz – Friday, 12 August 2022 – 22:26:52

Subject	Stop Origins Fracking plans
From	Shahbaz Khan
Sent	8/12/2022 10:26:52 PM

I am writing my submission because fracking is bad for our environment it produces lots of emissions and impacts the environment very badly leaving the water and communities underresourced so we cannot have anymore fracking

Shahbaz Khan
****
ACT 2615

Kiely, Marian – Sunday, 14 August 2022 – 14:28:07

Subject	FRACKING is a DIRTY TOXIC industry!
From	Marian Kiely
Sent	8/14/2022 2:28:07 PM

Northern Territory Department of Environment, Parks and Water Security.

ORIGIN made 12.1billion in 2021 and ONLY employs 5000 workers around Australia - Aust. micro businesses employ way more.
It's top shareholders are a massive USA corporation & a Chinese Corporation, hence, they sit on the board & make decisions that are NOT in the interests of Australia as their main interest is in PROFITS which they as FOREIGN shareholders, take overseas. Taxes: ORIGIN pays NOTHING, ZILCH, ZERO taxes as it manipulates expenditure between subsidiaries & offshore, etc.
Royalties.... PATHETIC.... ORIGIN virtually steals OUR resources... hence it is more of a FREEBIE.
Oh! and ORIGIN doesn't clean up or PAY for the clean up of the environmental & cultural damage that is caused by fracking. If it is at all possible.... what do you do with poisoned WATER!!

Franking is a DIRTY & TOXIC industry.. fact!

So, then, ORIGIN is not really Australian as it has huge FOREIGN interests, gets OUR resources for next to nothing, makes 12.1billion which is mostly taken overseas, pays NO TAXES in Australia, employs minimal people and completely STUFFS UP Australia's environment... the worst of which is the poisoning of OUR precious WATER.

So then economically there is no advantage. More importantly, given there are NO POSITIVES to Origin fracking in NT, there are really serious and important DISADVANTAGES..... the environment (especially water) & Australia's cultural heritage. Some of the environment destruction is permanent & poisoning water in a country such as Australia is a national CRIME.

It is your job to protect Australia's WATER & ENVIRONMENT from foreign controlled mega corporations who contribute NOTHING to Australia... they only maraud & steal our resources, giving nothing back to Australia or its people... who OWN those resources.

It is time to understand how our country is being raped, pillaged & destroyed, just to fill the pockets of a few parasitical oligarchs.

Australia is NOT a 3rd world country... so why are we acting like we are & allowing PRIVATE concerns override OUR sovereignty!!

Marian Kiely
****
WA 6959

Killips, Martin – Saturday, 13 August 2022 – 14:19:08

Subject	No Fracking
From	Martin Killips
Sent	8/13/2022 2:19:08 PM

Dear Sir/Madam,
As an origin customer I am horrified to hear of Origin's plans to open 12 new fracking sites in the NT. As a scientist and having learnt about fracking, the environmental impact is devastatingly clear. Fracking destroys land, clean water, farming lands, wildlife due to habit loss and impacts communities and human health.

It is time for Origin to get serious and invest in clean sustainable technologies - NOT fracking. There is NO time to waste with the climate crisis.

Regards,
Michaela Killips

Martin Killips
****
NSW 2482

Kilroy, Kym – Sunday, 14 August 2022 – 15:17:00

Subject	STOP Origin's Fracking
From	Kym Kilroy
Sent	8/14/2022 3:17:00 PM

We need the waterholes to remain STOP ORIGIN FRACKING

kym kilroy
****
QLD 4102

Kilty, A – Sunday, 14 August 2022 – 11:43:47

Subject	Stop Origin and their Fracking Plans
From	A Kilty
Sent	8/14/2022 11:43:47 AM

My name is Antoinette Prendergast. I'm writing this submission while I'm in great fear for our Aboriginal people still living on their country. I've never been a fan of fracking and the damage it causes to land and water. There is no good outcome for any living thing except more wealth for a few. I also fear for our land that is burning and flooding at and ever increasing rate and our waterways that are drying. Origins proposals are not going to help. They will contribute instead to the destruction of much that we are concerned about. It's not going to help those most in need of protection. It's not going to help our wildlife and our natural assets. And it's definitely not going to help our indigenous peoples who have been screwed ever since the rest of the world put a foot on this land. Please consider very carefully.
Regards
AP

A Kilty
****
NSW 2538

Kilvert, Peter – Sunday, 14 August 2022 – 18:26:51

Subject	STOP FRACKING
From	Peter Kilvert
Sent	8/14/2022 6:26:51 PM

You have a duty NOT to frack as it produces methane which seriously affects climate change. When methane is burnt it produces carbon dioxide which seriously affects climate change. Fracking produces airborne chemicals which seriously affects the health of workers and neighbours. Fracking uses up too much precious WATER, which becomes so toxic and radioactive that it cannot be returned to the water cycle. Fracking contaminates the underground water. We need to move away from fuel containing carbon to SURVIVE. You will be killing our children and grandchilren. STOP FRACKING.

Peter Kilvert
****
QLD 4870

Kimberley, Maree – Saturday, 13 August 2022 – 07:19:30

Subject	No to Origin fracking in the NT
From	Maree Kimberley
Sent	8/13/2022 7:19:30 AM

To: Northern Territory Department of Environment, Parks and Water Security.

I'm Maree Kimberley, a Queenslander who has spent time in the territory and loved it's beautiful landscapes. The NT is a remarkable place, important to Australia and the world. It's a place to be protected and honoured, not torn apart by fracking.

I understand Origin Energy want to explore 12 new fracking mines in the NT: that is 12 too many. My key concerns are:

1. They want to fast track gas production without the correct licence.
2. They have failed to fully consider the climate impacts, which are disastrous.
3. They haven't implemented all the recommendations from the Pepper Inquiry.

Above all these considerations is the fact that Traditional Owners have said they do not want fracking on their land. Traditional Owners have cared for Country for thousands of years. They are the experts in land management, and in keeping Country healthy for generations to come.

Origin must respect Country and halt all fracking preparation and activity immediately.

Kind regards,
Maree Kimberley

Maree Kimberley
****
QLD 4030

Kindler, Kim – Sunday, 14 August 2022 – 13:52:35

Subject	Stop Origin's fracking plans
From	Kim Kindler
Sent	8/14/2022 1:52:35 PM

Dear Northern Territory Government
For the Australian, state or territory Governments to continue the behaviours and activities of the past 200 + years goes against the will of the people and what is better for our land, water, air and the other creatures with which we share this land.
Fracking is only good for those the will benefit- as for the past 200 years- individuals and fossil fuel corporations. Any Government that is responsible now simply must put an end to further CO2 emissions. Fund these industries to provide renewable power sources, encourage individuals to have their own, be true to the Indigenous peoples who do know how to care for it and do not relegate us to a land mass devoid of cleaner air, water and pasture. Its criminal.
I think the NT has enough problems so why make more? for the benefit of a few select and the detriment of the rest of your electorates.
with sadness and sincerity,
Kim Kindler

Kim Kindler
****
NSW 2119

King, Grahame – Sunday, 14 August 2022 – 10:17:57

Subject	Stop Origin's reckless fracking plans in the NT
From	Grahame King
Sent	8/14/2022 10:17:57 AM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please REJECT the application from Origin and any other mining companies to carry out fracking activities in the Northern Territory.

Grahame King
****
NSW 2099

King, Stephanie – Monday, 15 August 2022 – 09:19:52

Subject	Stop origin fracking plans
From	Stephanie King
Sent	8/15/2022 9:19:52 AM

Dear Minster,
Please stop Origin fracking plans. This is not good for the country , the people and our furture.
Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.
Thanks Stephanie King

Stephanie King
****
QLD 4825

Kirby, Grant – Thursday, 11 August 2022 – 15:15:13

Subject	Stop Origin fracking
From	Grant Kirby
Sent	8/11/2022 3:15:13 PM

Stop Origin fracking in the NT please.

Grant Kirby
****
VIC 3193

Kirby, Sandra – Saturday, 13 August 2022 – 16:13:18

Subject	Origin and Fracking
From	Sandra Kirby
Sent	8/13/2022 4:13:18 PM

Dear NT Government

It's way past time that any new gas fracking ceased in our highly climate threatened land.
Please cease the fracking.
Most sincerely
Sandra Kirby

Sandra Kirby
****
NSW 2264

Kirk, Ron – Friday, 12 August 2022 – 14:31:49

Subject	Stop Origin;s Fracking Plans
From	Ron Kirk
Sent	8/12/2022 2:31:49 PM

Norhtern Terrirory Parks
Please will you not grant approval for Origin to go ahead with these activities.
Fracking may be good for gas production but without a doubt gas (fossil fuels) is ceasing to be useful anymore. It has been shown to be damaging, dirty and harmful and people, corporations and governments are seeing it for what it really is.
A damaging, dirty, short term fix for a system that we can do without. There is other cleaner projects that you could invest in and be applauded for you efforts.
The money gained by you from this adventure is dirty money.

Ron Kirk

it wha what it really is.
Ashor term fix for a long term disaster.

ron kirk
****
ACT 2602

Kissick, Wayne – Friday, 12 August 2022 – 12:07:48

Subject	Stop Origin fracking
From	Wayne Kissick
Sent	8/12/2022 12:07:48 PM

Time to stop putting greed before the environment and First Nation people. Really is your high paying job worth more than your children and grandchildren. Think before you act.

Wayne Kissick
****
QLD 4183

Klaic, Marguerite – Saturday, 13 August 2022 – 15:17:44

Subject	Please do not approve Origin Energy fracking proposals
From	Marguerite Klaic
Sent	8/13/2022 3:17:44 PM

My name is Mary Klaic and I am a reside in Melbourne. I am writing in regard to Origin Energy's proposal to conduct fracking in the Northern Territory. I would like the Northern Territory government refuse this proposal.

Fracking presents an unacceptable risk to the water table and the environment. This activity will scar the landscape and potentially destroy sites that are sacred to the local traditional owners. In a time when the Australian community have suffered significantly from the impact of climate change, investment in non-renewable energy sources must be stopped.

At the last federal election our community sent a clear message that action on climate change must be prioritised. Approving fracking projects flies in the face of community opinion and should not be approved. Please reject this proposal.

Regards
Mary Klaic

Marguerite Klaic
****
VIC 3186

Kleinig, Colin – Sunday, 14 August 2022 – 15:09:01

Subject	Stop Origin fracking in NT
From	Colin Kleinig
Sent	8/14/2022 3:09:01 PM

Please stop them

Colin Kleinig
****
NSW 2261

Klemm, Maree – Saturday, 13 August 2022 – 14:30:47

Subject	Origin fracking is not a legitimate way to take the Peoples' resources
From	Maree Klemm
Sent	8/13/2022 2:30:47 PM

In my geological view, fracking to release interstitial hydrocarbons to make it a mineable resource, is like bursting the human body's veins and arteries to take a blood donation. DON'T DO IT!!!

Maree Klemm
****
QLD 4101

Kleppen, Christine – Sunday, 14 August 2022 – 13:08:08

Subject	Origin - Northern Territory
From	Christine Kleppen
Sent	8/14/2022 1:08:08 PM

To Whom It May Concern
It has been bought to my attention that Origin is seeking to open new fracking drills in the Territory. Having travelled through the territory several times I am extremely disturbed to hear that this would be allowed in 2022. So many and so much damage. Australia could power the world with renewable energy. Origin needs to look to the future in the 21st century.
Regards, Christine Kleppen

Christine Kleppen
****
NSW 2251

Klucis, Margaret – Thursday, 11 August 2022 – 14:15:59

Subject	Stop Origins plans for drilling in the Northern Territory
From	Margaret Klucis
Sent	8/11/2022 2:15:59 PM

Not only do we want the NT government to stop the fracking plans but we want Respect for The Traditional Owners and respect for the majority of Australians who are concerned about the lack of respect for our concerns about climate change.
The world is flooding and burning and governments around the world are ignoring the disaster. Don't ignore the fact that approving fracking will add to the disaster. STOP FRACKING

Margaret Klucis
****
QLD 4017

Kneipp, Vanessa – Saturday, 13 August 2022 – 19:30:01

Subject	Stop Origin
From	Vanessa Kneipp
Sent	8/13/2022 7:30:01 PM

To: Northern Territory Parks department of Environment - Parks and Water Security

Origan's fracking plans - No to plans.

I believe the custodians of the land should have the right to deny any mining, drilling or fracking plans.

With global warming -our priority should be towards renewables. Water security should also be a top priority! and no risks taken for any ground water to be contaminated!

Please listen to the people and not corporations, who are concerned only with their profits, with no regards to the land, the people or our future

Best regardes
Vanessa Kneipp (Highvale Qld)

Vanessa Kneipp
****
QLD 4520

Knight, Leon – Thursday, 11 August 2022 – 14:50:16

Subject	Please Ban Fracking in the NT
From	Leon Knight
Sent	8/11/2022 2:50:16 PM

Dear NT Government,

Can you please advise what measures will be put in place to make the owners of Origin Energy, as well as senior public servants involved in the approvals process, are held personally responsible for the costs of any and all eventual environmental damage that ensues from fracking operations.
No fracking should be permitted unless the people arranging it commit in legal documents to remain responsible in perpetuity.
Yours sincerely.

Leon Knight *********

Leon Knight
****
NSW 2527

Knight, Patrick – Sunday, 14 August 2022 – 17:46:34

Subject	No fracking for Australia
From	Patrick Knight
Sent	8/14/2022 5:46:34 PM

Don’t poison our precious water!!

Patrick Knight
****
SA 5000

Knight, Rosemary – Friday, 12 August 2022 – 18:52:04

Subject	Please stop fracking in the NT
From	Rosemary Knight
Sent	8/12/2022 6:52:04 PM

The Northern Territory Parks and Water

Please stop fracking in the NT. We do not need the gas or oil that they are fracking for with our transition to green power and we must not take risks with our precious water resources, which we may need desperately in the future.

This exploration and fracking is the outcome of the wish by large corporates to exploit our resources in the persuit of profits and corporate greed

Respectfully

Rosemary Knight
****
NSW 2325

Rosemary Knight
****
NSW 2325

Knott, Deborah – Sunday, 14 August 2022 – 13:49:34

Subject	Origin's fracking plans must not be allowed to continue
From	Deborah Knott
Sent	8/14/2022 1:49:34 PM

I am Deborah, an Australian citizen and senior, and I am very concerned about the destruction and danger posed by companies planning on opening even more gas fracking or coal mining projects around our country.
I include Origin's plan to drill and frack 12 new 'exploration' wells on the Amungee Mungee pastoral station 50 km east of Daly Waters in the Northern Territory.
This is an appalling prospect!
There will be the destruction of the local environments and groundwater, a deep affront to the local indigenous people who have been opposing this for decades. And additionally, there's the danger for all beings on the earth from the eventual new gas fracking's pollution on a massive scale with its flow-on of global warming.
Origin has submitted an Environmental Plan to the Northern Territory Government for now, which sounds pretty innocuous, but actually hides plenty of problems. If Origin switches from exploration to production mode, all the downsides of gas fracking will be writ large over decades.
The local environment and the world at large cannot afford that!
Floods, fires, heat waves, and droughts are already on a scale that exceeds what has been experienced before – as are the numbers of people and other sentient beings that have either died or been devastated by the loss of their homes/businesses/ecosystems and crops/foods.
Those effects of global warming will become more extreme as global temperatures continue to rise, yet we can't even manage what is already happening! The dangers of exceeding the 1.5°C rise in global temperatures are not to be ignored or subverted – and I have not mentioned any other environmental changes that will also occur!
And yet – that is what Origin is trying to do. It is unconscionable! And it makes me angry that private companies try to get away with it and tell lies about the scientific evidence in the process. How can a massive carbon footprint of over 2 million tonnes of emissions amount to anything less than a global disaster?
Origin hasn't even been honest enough to acknowledge that their Scope 1 emissions will be larger than the emissions that would have come from that area without their presence. And their only acknowledgment of their Scope 3 emissions is to assume that they will be someone else's problem. I think that is dishonest.
Really, in a nutshell, that mirrors their mindset – it's a case of profit for themselves and communal losses for everyone else.
The world cannot afford Origin to frack and sell any gas from that basin. It will blow Australia's required emission reduction to 43% by 2030 out of the water,
And apart from the project's global warming, it is also dependent on them taking enormous volumes of groundwater out of the Gum Ridge Formation.
In a country that is already the driest continent on the earth – one that is set to become drier and hotter as global warming proceeds – I think it is criminal to allow that to happen. What a shocking waste of such a valuable resource that all the locals (human and otherwise) depend on. What a shocking abrogation of governmental responsibility!
Again, this is a matter of Origin's financial benefit outweighing the existential needs of the community and natural ecological systems. That water resource belongs to all of us – not Origin alone. They should not have the right to squander it in the first place or convert a huge proportion of it into toxic wastewater for later generations to have to deal with. What sort of

husbandry of community resources does that represent other than governmental irresponsibility?
Importantly, Traditional Owners do not want Origin fracking on their land because of the risks to the water and their country and cultural heritage. And I do not want it either. I do not want Origin to denature yet another Australian natural ecosystem or trample on the rights of another group of indigenous peoples. I do not want the forces of destruction and death to override those of life and ecosystem interconnectivity.
The living systems of the entire Australian continent comprise many smaller, unique ecosystems. The more threatened those individual ecosystems, the less resilient the whole, which is a truth that will become even more salient as global temperatures rise and stress all ecosystems everywhere.
As a result, I want the Northern Territory Government to reject Origin's Environment Management Plan as I think it is totally inappropriate in current times locally, for Australia and for life on earth at large.

References
[1] Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program, Department of Environment, Parks and Water Security, 18 July 2022.
[2] Government accepts all recommendations of the inquiry, Northern Territory Government, 28 June 2022.
[3] Climate Action Plan 2018–2021, Alice Springs Town Council
[4] Environment management plan, Department of Environment, Parks and Water Security, 20 January 2022.

Deborah Knott
****
QLD 4066

Knox, Robin – Saturday, 13 August 2022 – 13:58:32

Subject	Fwd: Origin energy Amungee NW Delineation Program
From	Robin Knox
Sent	8/13/2022 1:58:32 PM

origin.ep98&**********

Dear Origin
Please see letter attached below

Kind regards, Robin Knox

Attached Documents

10 Walker St
Nightcliff, NT 0810
13 August 2022

Dear Honourable Minister Lauren Moss

I am a long term Territorian who has in the Territory for nearly 50 years.

Keeping our healthy environment and clean air is our greatest asset and many jobs rely on the businesses based on the healthy, unpolluted Northern Territory.

I am very concerned about Origin's Amungee NW Delineation Environmental Management Plan (EMP).
Your Government agreed to meet all the conditions of the Pepper Enquiry. Now Origin are trying to sell gas by calling it an exploration licence so they don't have to Meet the Pepper Inquiry recommendations. This is sneaky and dishonest and pollutes our planet with no offsets for their CO2 emissions.

The Federal Government has already Paid $21million to do exploration for fracking so sadly the cost to the company are already paid by my taxes. But they should not be allowed to increase testing from, 135 to up to 730 days and not offset emissions.

You need to be strong and listen to the Territory population and stop this sneaky application now. It is not in the interests of reducing climate emissions. The Federal Government has said they will not help the NT offset production emissions and the NT cannot offset them so we should stop this madness now.

The area has potentially 15 threatened species that may be threatened if additional of 111 hectares goes ahead. 430 million litres of precious water will be used to frack 12 wells and produce 90 million litre of waste water which will be driven interstate, increasing emissions. Promises of carbon capture and storage are not good enough.

Please do not approve this increased activity and allow the gas industry to expand by taking small creeping steps to a future that is not sustainable.

Kind regards,

Robin Knox

Koenders, Ida – Sunday, 14 August 2022 – 08:53:27

Subject	stop Origin fracking in the Northern Territory
From	Ida Koenders
Sent	8/14/2022 8:53:27 AM

Fracking for gas is destructive to the environment. Water, which is needed for the people in the Northern Territory, needs to be used for this fracking and will be polluted, and be unusable for agriculture and consumption. The peoples living there need to give their consent before Origin is starting

Ida Koenders
****
VIC 3158

Koller, Claudia – Friday, 12 August 2022 – 21:27:53

Subject	Please don’t frack
From	Claudia Koller
Sent	8/12/2022 9:27:53 PM

Hello,
Considering the existential threat of climate change and the associated ecological catastrophes I urge you to do everything possible to minimise future emissions and focus on processes and developments in line with sustainability. It does not make sense to open more gas fields, rather we need to work towards closing the ones we have.

The catastrophic weather events we have been seeing worldwide are expensive in human and monetary terms. Even with the best behaviour regarding emissions and all efforts directed towards green energy transition from today, the world temperature will go up. We must do everything we can to keep this increase as low as possible. In my mind it is worth giving up some of our current wealth and lifestyle to secure a habitable planet in the future. One with people on it …

Kind regards,
Claudia Koller

Claudia Koller
****
NSW 2289

Komersaroff, Sally – Friday, 12 August 2022 – 10:24:52

Subject	Please stop Origin's fracking practices
From	Sally Komersaroff
Sent	8/12/2022 10:24:52 AM

Northern Territory Department of Environment, Parks and Water Security.

I am a landholder deeply committed to conservation and addressing global heating. I have read the recent State of the Environment Report and am involved in numerous actions aimed at informing and building climate and environmentally aware community as well as trying to retain biodiversity in my region.
Recently I changed my gas retailer from Origin to another company with better environmental and climate change mitigating credentials. To my knowledge Origin pays only lip-service to addressing looming environmental catastrophe.

I am making this submission because business as usual practices of allowing big companies to lobby governments successfully and without transparency, so that they can profit from our national estate, now based on overwhelming evidence urgently needs to stop.

Fracking for gas in our dry and fragile ecosystems on this continent is a race to the end-of-times. I have been following the controversies over fracking now for many years - from 'Aim High in Creation" (2013) by Anna Broinowski to the Pillaga and now the Northern Territory.

There must be a moratorium on all fracking in the Northern Territory until the institution of recommendations of the Statement from the Heart and Indigenous voice to parliament.

This is an opportunity for our nation to begin to identify what it stands for in the world and on this earth.

Dr Sally Gardner
Honorary Research Fellow, Deakin University.

Sally Komersaroff
****
VIC 3143

Koppi, Tony – Saturday, 13 August 2022 – 16:07:26

Subject	Please reject Origin's fracking plans in NT
From	Tony Koppi
Sent	8/13/2022 4:07:26 PM

To: Northern Territory Department of Environment, Parks and Water Security

I am a citizen of Australia living on the Sunshine Coast in Queensland, and am very concerned about Origin's fracking plans in the NT.

Apart from respecting the rights of Traditional Owners who have been defending their country against Origin for years, I believe that fracking will destroy the land, water and climate.

This is the time for developing innovative, sustainable and clean energies, not further destroying our finite resources.

Please reject Origin's fracking plans in NT.

Sincerely,

Tony Koppi

Tony Koppi
****
QLD 4562

Kornweibel, Jan – Friday, 12 August 2022 – 16:21:33

Subject	Please stop Origin's fracking plans
From	Jan Kornweibel
Sent	8/12/2022 4:21:33 PM

To: Northern Department of Environment, Parks and Water Security. I am Jan, in Fremantle Western Australia. I am writing to ask that you stop Origin's fracking plans. I have seen films about some parts of the world, mainly in Texas, USA, that have fracking, and am horrified what fracking does to the environment. I support the Traditional owners of these lands in the Northern Territory in trying to protect their land.
Please - I ask the Department to reject Origin's fracking plans.
Thank you.

Jan Kornweibel
****
WA 6160

Koser, Dianne – Sunday, 14 August 2022 – 16:50:35

Subject	Submission into Origin's Amungee NW Delineation EMP.
From	Dianne Koser
Sent	8/14/2022 4:50:35 PM

To whom it may concern,,

I am writing to you as long term Darwin resident about my concerns with the proposed Origin's Amungee NW Delineation EMP.

I have lived in Darwin with my family since 1972, raising our children and working as a teacher for many years.

I really appreciated the unique unspoilt nature of the Territory and have great fears for its future because of the effects of Climate change.

I have looked at Origin Energy's EMP and am very worried about many aspects of it.

Origin Energy has a licence to explore for gas which would increase Greenhouse gas emissions in the NT by over 500,000 tonnes

It would require 60 km of seismic surveying tracks, involving many hectares of land clearing, which includes the habitat of several endangered native species, including Gouldian finch, Grey Falcon, Painted Honeyeater and the Yellow-spotted Monitor.

Very large amounts of groundwater would be needed, at a time when rainfall levels are becoming less predictable with the changing climate and many communities do not have reliable safe water.

Origin is proposing to sell any gas fracked for use, naming this process 'beneficial use of Gas' .. but Greenhouse gases would still be emitted. Exploration licences do not permit the selling of gas under NT law. Before any production of gas, further processes and approvals need to be given.

I ask you as my representative to refer the entire EMP to the EPA for a full EIS.

Thank you,

Dianne Koser

40 Jacksonia Circuit Nightcliff

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Koser, Stefan – Sunday, 14 August 2022 – 17:12:25

Subject	submission into Origin's Amungee NW Delineation EMP
From	Stefan Koser
Sent	8/14/2022 5:12:25 PM

To Whom it May Concern,

I am writing to you as long term Darwin resident about my concerns with the proposed Origin's Amungee NW Delineation EMP.

I have lived in Darwin with my family since 1972, raising our children.

I also ran my own construction business for many years.

I really appreciated the unique unspoilt nature of the Territory and have great fears for its future because of the effects of Climate change. As a person who loves fishing and camping, I have noticed many changes for the worst.

I have looked at Origin Energy's EMP and am very worried about many aspects of it.

Origin Energy has a licence to explore for gas which would increase Greenhouse gas emissions in the NT by over 500,000 tonnes

It would require 60 km of seismic surveying tracks, involving many hectares of land clearing, which includes the habitat of several endangered native species, including Gouldian finch, Grey Falcon, Painted Honeyeater and the Yellow-spotted Monitor.

Very large amounts of groundwater would be needed, at a time when rainfall levels are becoming less predictable with the changing climate and many communities do not have reliable safe water.

The increase in heavy vehicles on the roads also concerns me, as does the likely damage from the additional use.

Origin is proposing to sell any gas fracked for use, naming this process ‘beneficial use of Gas’ .. but Greenhouse gases would still be emitted. Exploration licences do not permit the selling of gas under NT law. Before any production of gas, further processes and approvals need to be given.

I ask you as my representative to refer the entire EMP to the EPA for a full EIS.

Thank you,

Stefan Koser

40 Jacksonia Circuit Nightcliff

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Sent from Mail for Windows

Kotsiakos, Erika – Saturday, 13 August 2022 – 20:51:30

Subject	Please reject Origin's EMP regarding fracking the Territory
From	Erika Kotsiakos
Sent	8/13/2022 8:51:30 PM

Attn. Northern Territory Department of Environment, Parks and Water Security.
Hello.
My name is Erika Kotsiakos. I am a farmer from Baynton, Victoria. As a farmer, I am acutely aware how essential clean uncontaminated water and land is to not only farming, but to life itself. Fracking is by it's very nature destructive to all life. There are plenty of examples in both USA and Australia of the disastrous long term effects of fracking.
I am writing to you today to ask that you do not approve Origin's Environment Management Plan, or indeed any other fracking corporation's plan to frack and destroy country, water security and climate!
Kind Regards,
Erika Kotsiakos

Erika Kotsiakos
****
VIC 3444

Koussas, James – Thursday, 11 August 2022 – 17:08:11

Subject	Stop unwanted fracking plans
From	James Koussas
Sent	8/11/2022 5:08:11 PM

Dear Ministers,

My name is James. I am a recent PhD graduate from La Trobe University, where I currently work as a Demonstrator and Tutor. I am currently based in Lalor, which is in the federal division of Scullin.

I am writing in regards to Origin Energy's fracking plans. Aside from this being unethical on the basis of being done without the consent of the Traditional Owners of the lands that are to be fracked, fracking in of itself is also highly unethical due to the fact that climate scientists recommend that new fossil fuel projects should be stopped, and because it can ruin fresh water supplies which are limited in this very dry continent. There is no real reason to allow this to happen and many reasons not to.

Yours faithfully,

James Koussas

James Koussas
****
VIC 3075

Kovats, Tibor – Sunday, 14 August 2022 – 11:42:32

Subject	Objection to Origin Energy EMP for Fracking Wells
From	Tibor Kovats
Sent	8/14/2022 11:42:32 AM

To: Northern Territory Department of Environment, Parks and Water Security

I am informed that the Department is exhibiting an EMP for Exploratory Wells by Origin Energy on the Amungee Mungee pastoral station 50 km east of Daly Waters.

As a resident of Gloucester, NSW I am aware of the potential harmful impact of the fracking process. Residents of Gloucester fought against AGL undertaking fracking in the Gloucester area and AGL abandoned its plans.

Rather than allow exploratory drilling, the Northern Territory should prohibit fracking and this form of industry all together.

I urge the Government to look at energy generation alternatives that are less harmful to the environment and to heed the wishes of Traditional Owners.

Sincerely

Tibor Kovats

Tibor Kovats
****
NSW 2422

Kowal, Patricia – Friday, 12 August 2022 – 05:27:53

Subject	To frack or float
From	Patricia Kowal
Sent	8/12/2022 5:27:53 AM

Yesterday I read with great concern about the melting of a huge iceberg in Antarctica and expected sea level rises around the world.
Today, more fracking.
When will it stop?
Please use your brains and your hearts for all our grand children.
You can do it … be leaders, be problem-solvers, be lighthouses for us all.
Kind regards
Patricia Kowal
****
9 White Street
George Town
7253 Tasmania

Patricia Kowal
****
TAS 7253

Kretser, Steve – Friday, 12 August 2022 – 14:43:37

Subject	Hi from Steve de Kretser
From	Steve De Kretser
Sent	8/12/2022 2:43:37 PM

My family moved to the NT in 1971. They'd immigrated from SriLanka to Sydney in '68.
Mid 1971 dad took a 3 month limited tenure commonwealth job up here on Melville Island, 51 years later he, and we are still here. I grew up here. The dirt track to the Mataranka pools was so skinny the pandanus brushed the shoulders; no paving, soil banks. I drank Katherine water. Howard Springs still worked. My children were fortunate to grow up 15 min from Litchfield Park, from '97 to '04.

The possibility of any fracking, specifically in the NT, but anywhere really, is a threat to the natural environment. I'm not an authority on the subject, but there are many examples of environmental damage caused by fracking to convince me that allowing origin to "explore" 12 more sites on the Amungee Mungee pastoral station 50 km east of Daly Waters.
You've probably heard all the arguements for;
economic un-viability,
dodgy work practices by Origin,
rights of traditinal land owners ignored,
etc etc
I'd also like you to consider your children visiting the bush and creeks in 50 years...

I am politely and passionately asking the Department to reject Origin's EMP, (it was probably written by their uncle's cousin who owed them a carton)
Thanks for reading this,
Steve de Kretser.

Steve de Kretser
****
NT 0810

Križaj, Mirko – Thursday, 11 August 2022 – 18:37:55

Subject	Stop Origin's fracking plans
From	Mirko Križaj
Sent	8/11/2022 6:37:55 PM

Stop Origin's fracking plans, thanks.

Mirko Križaj
****

Kunugi, Atsuko – Friday, 12 August 2022 – 17:14:02

Subject	No more to Origin's reckless fracking plans
From	Atsuko Kunugi
Sent	8/12/2022 5:14:02 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I write to you as an extremely concerned resident about Origin's disastrous TWELVE new fracking drills in the NT - which will threaten our natural resources, cultural heritage, environment, wildlife and climate.

I stand with the Traditional Owners in defending their human rights and the valuable water source.

Origin Energy is a corrupt company and one of the biggest players in the fracking industry. They are already destroying the environment and contributing to the alarming levels of emission.

Twelve fracking wells is horrendous enough, what is down right irresponsible and a total disregard to our environment are the following:

1. Fast tracking disastrous gas production without the right license.
2. No accountability for or have addressed the full climate impacts.
3. Wasting massive amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal.
3. Origin haven't implemented all the recommendations from the crucial Pepper Inquiry.

Information I have obtained as outlined:
- Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
- In May 2022, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater. Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
- 535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.
- Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

We are under pressure to curb climate change and turn to renewables. It is now time to stop these greedy and irresponsible corporations plundering and destroying our nature, climate and cultural heritage.

By allowing Origin to go ahead with such a disaster plan without any accountability will set a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Please consider a cleaner, and more respectable future for the environment, climate, wildlife, Traditional Owners and the community.

Stop the fracking once and for all.

Yours sincerely,
Atsuko Kunugi
Summer Hill NSW

Atsuko Kunugi
****
NSW 2130

Kurnorth, Wayne – Sunday, 14 August 2022 – 07:47:31

Subject	Stop Origin fracking plans
From	Wayne Kurnorth
Sent	8/14/2022 7:47:31 AM

Northern Territory Department of Environment, Parks and water security.
Need to understand that water is life and Origins fracking plan has to stop.

Wayne Kurnorth
****
NT 0812

Kyriakidis, Anastasia – Saturday, 13 August 2022 – 20:48:28

Subject	Stop Origin's fracking plans
From	Anastasia Kyriakidis
Sent	8/13/2022 8:48:28 PM

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT.

Now, they've lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into their EMP, it's even worse…

They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater. Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs. This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Anastasia Kyriakidis
****
NSW 2206

Lacroix, Laurel – Thursday, 11 August 2022 – 14:42:24

Subject	Stop Origin's fracking plans
From	Laurel Lacroix
Sent	8/11/2022 2:42:24 PM

Submission to Northern Territory Dept of Environment, Parks and Water Security,

I am an IT professional who dearly loves our beloved country and want it to both survive and thrive. Origin's plans for twelve new fracking drills in the Northern Territory pose massive risks to water, cultural heritage, environment and our climate. I heartily agree with Traditional Owners who have strongly opposed fracking for many years as it would consume vast amount of water, pollute remaining water supplies and have a devastating effect on the environment - all of which contributes to even greater climate change. Origin claims that fracking reduces emissions is absolute bunk!

I am sincerely asking the Department to reject Origin's fracking plans.

Laurel Lacroix
****
NSW 2090

Ladhams, Pam – Friday, 12 August 2022 – 14:48:12

Subject	Stop Origins fracking plans
From	Pam Ladhams
Sent	8/12/2022 2:48:12 PM

To Northern Territory Dept of Parks, Environment and Water Security
My name is Pam Ladhams and even though I live in Perth I am aware of the struggles the Traditional Owners have had opposing fracking. Origin'S plans to frack the Northern Territory go against everything I hold dear.
The future of the world depends on stopping energy companies from destroying country, water resources and climate change by allowing fracking to take place. To much greed by energy corporations has already impacted the planet. The fact that world climate is so changed already by floods and devastations storms should be a wake up call to halt all new approvals for fracking and instead be working towards renewable alternatives to safe the world from becoming destroyed for all the worlds people and animals etc.

Please stop all fracking approvals.

Sincerely
Pam Ladhams

Pam Ladhams
****
WA 6018

Laing, Geoff – Friday, 12 August 2022 – 21:33:31

Subject	Stop Origin fracking in the NT
From	Geoff Laing
Sent	8/12/2022 9:33:31 PM

Fracking is a sure way to destroy the water table and the environment, let alone ignore native rights, please do not allow new drilling

Geoff Laing
****
NSW 2750

Laizans, Cheryl – Saturday, 13 August 2022 – 19:24:34

Subject	Fracking is not the way of the future
From	Cheryl Laizans
Sent	8/13/2022 7:24:34 PM

Water security is a contradiction when talking about fracking !!! Please listen to our first nation representatives, also listen to the people affected by this practice in other parts of the world, dreadful stories coming out of the USA, where water from the tap is inflammable, fertile farms with animals no longer viable - how much more information do you need ? or is the greed so great it overwhelms all other considerations ?

cheryl laizans
****
QLD 4552

Lamb, Lloyd – Thursday, 11 August 2022 – 22:13:30

Subject	Fracking
From	Lloyd Russell Lamb
Sent	8/11/2022 10:13:30 PM

Water cannot be taken for granted , you are risking a man irreversible contamination of the most important survival resource

lloyd russell lamb
****
VIC 3342

Lambrechtsen, Michael – Sunday, 14 August 2022 – 10:12:09

Subject	Stop Origin's Plans to Frack for Gas
From	Michael Lambrechtsen
Sent	8/14/2022 10:12:09 AM

To: Northern Territory Department of Environment, Parks and Water.

Living in Northern Rivers NSW we are well aware of the dangers to country and the environment from fracking for gas.

We have also just experienced our worst flood ever which was exacerbated by climate change from burning fossil fuels.

With huge solar farms planed for the Northern Territory which will help NT industries and Singapore reduce their carbon emissions why look backwards to fossil fuels rather the future for clean energy?

Fracking for gas penetrates subterranean water systems with the chance of spoiling these water systems. The scientists say it is a risk and an uninsurable risk. It is an uninsurable risk as no one can quantify the risk. No one can put a price on the risk as how long will the water be contaminated and how much is water worth in these remote environments. Not just the worth to humans but the environment as well. Where will this contaminated water end up?
The waste water is planned to be trucked interstate. So the Northern Territory is planning unload their problem to others. What is going to happen to that waste water? is it going to be purified or just moved to another dump site making it someone else's problem.

With EV solar power now more cost effective and more environmentally friendly than fossil fuels, why allow projects that exacerbate climate change? Power generated by EV's can be exported cost effectively by cable, converted into products like ammonia and be imbedded in export products as part of a manufacturing or mineral refining process.

The Pepper Inquiry in 2018 made 135 recommendations. These recommendations have not been implemented. What is the point of having an enquiry if the recommendations are not implemented before commencing fracking?

Traditional Owners are also against the fracking of their land. This is totally understandable as I would not want fracking on my land with all the associated risks to water and destruction of land and country.

Do not approve Origins Enviromental Management Plan as:
1. Further gas projects damage our climate when cheaper and more plentiful alternatives are available.
2. It would be disrespectful to the Traditional Owners and all Australians to despoil water, country and land.
3. All 135 recommendations from the Pepper 2018 enquiry have not been implemented. No fracking should commence until they are implemented.

Thank you for your consideration.

Michael Lambrechtsen
****
NSW 2474

Lancaster, Jo-Ann – Thursday, 11 August 2022 – 14:07:17

Subject	Stop fracking. Just Stop.
From	Jo-Ann Lancaster
Sent	8/11/2022 2:07:17 PM

I am opposed to Origins plans to frack in the NT. They have plans for 12 new wells which threaten water, culture heritage and climate.

They are not welcome by the Traditional Owners who defend their land against massive companies year after year, lifetime after lifetime. We have let First Nations people down time after time and it is a source of shame for this country.

We have got to reduce fossil fuel use not increase it. Arguments about gas replacing coal don't cut it -the more wells the more gas that is released.

These company don't deserve it. They don't pay their fair share of tax, they refuse windfall taxes on OUR resources when we need that money for social safety nets.

It is time that these mining/fossil fuel companies stop calling the shots on policy and we listen to the people. We particularly pay attention to First Nations people to whom this land belongs.

Jo Lancaster

Jo-Ann Lancaster
****
NSW 2640

Land, Ron – Friday, 12 August 2022 – 18:33:18

Subject	Don't Frank NT
From	Ron Land
Sent	8/12/2022 6:33:18 PM

Frank your own backyards you criminals

Ron Land
****
NSW 2481

Lane, Gerard – Saturday, 13 August 2022 – 17:04:21

Subject	The stupidity of fracking !!
From	Gerard Lane
Sent	8/13/2022 5:04:21 PM

You can not seriously entertain the idea of fracking in this beautiful country !! It's bad for the water it's bad for climate it's also not needed in Australia N T Gov needs to listen to its owners of the land so simple Don't do it no good alround Thank you Common Sense should prevail

Gerard Lane
****
VIC 3199

Lane, Vikki – Friday, 12 August 2022 – 14:09:54

Subject	Ground Water and Fossil Fuel Fracking
From	Vikki Lane
Sent	8/12/2022 2:09:54 PM

I am strongly of the understanding and belief that the advantage of extracting yet more combustible fuel at the risk of contaminating ground water and despoiling the environment is the action of a stupid species hell bent on self destruction.
Please consider the survival of the next generation and employ the benefit of common sense in any decision making process relating to Origin's plans to frack in the Northern Territory.

vikki lane
****
VIC 3669

Lang, Quentin – Sunday, 14 August 2022 – 13:45:43

Subject	Origin's new fracking plans
From	Quentin Lang
Sent	8/14/2022 1:45:43 PM

Please do not approve Origin's new fracking plans.
They are bad for the environment and Traditional owners.
Climate change has started happening and new gas extraction will only make it worse.

Quentin Lang
****
VIC 3135

Lang, Steven – Friday, 12 August 2022 – 15:25:41

Subject	Please stop Origin Energy's fracking in the Northern Territory
From	Steven Lang
Sent	8/12/2022 3:25:41 PM

Northern Territory Department of Environment, Parks and Water Security
My name is Steven Lang, I live in Maleny in South East Queensland. This may be remote from the Northern Territory but this is of no consequence. Fracking does not simply damage the immediate area but the whole of our commonwealth.
We cannot afford to expand our mining of gas further. The emissions associated with the process and with the burning of the gas will render our environment uninhabitable.
This development proposal is also against the wishes of the Traditional Owners.
There are so many much better options - some of them slated for the NT itself - for energy production via renewables. Please concentrate on these.
I wholeheartedly oppose Origin's Environment Management Plan, yours sincerely, Steven Lang

Steven Lang
****
QLD 4552

Langfield, Russell – Friday, 12 August 2022 – 08:00:50

Subject	Stop Origin's fracking plans
From	Russell Langfield
Sent	8/12/2022 8:00:50 AM

Why are you still considering fracking in the NT, especially on Traditional Owners' lands when they don't want it to happen?

It is polluting both above and below the ground, especially dangerous to water supplies. You already have a major pollution problem around Katherine with PFAS. Why are you risking another disaster?

Do you learn NOTHING from your previous mistakes???

Origin developed "Sliver technology" solar panel cells decades ago and have been sitting on them for all this time instead of using it to move to renewable energy supplies. One of the participants developing this technology for Origin is now one of the richest men in China because he went back there and started his own solar panel manufacturing business.

Are you people stupid???

You have all the sun in the world up there to provide free clean energy for goodness sake!

USE IT!!!

Russell Langfield
****
TAS 7321

Lanham, Anne – Thursday, 11 August 2022 – 14:14:55

Subject	Don't frack the NT
From	Anne Lanham
Sent	8/11/2022 2:14:55 PM

Submission

I call on the NT government to prevent Origen from fracking in the Northern Territory.
Yours sincerely, Anne Lanham 6/20 Grove St'Toowong Q 4066
****

Anne Lanham
****
QLD 4066

Larew, Genie – Sunday, 14 August 2022 – 20:16:07

Subject	Stop fracking drills in the Nirthern Teritorry
From	Genie Larew
Sent	8/14/2022 8:16:07 PM

Dear Origin Energy Decision Makers, As a former, long-standing Origin shareholder I implore you to abandon all plans for fracking drills in the NT. Traditional owners homelands will be severely negatively impacted and their lands can never be repaired once you bring in your equipment.. The drills are totally inconsistent with fighting climate change.Australians have shown in the recent Federal election that they prioritise climate action. People like me with SMSFs don't want to invest in companies like Origin which have a reputation for a lack of conscience and which damage our precious, unique Australian environment via fracking. Your corporate reputation can only be saved if you pull out of your planned fracking drill projects.

Genie Larew
****
VIC 3065

Larwood, Caroline – Saturday, 13 August 2022 – 14:58:30

Subject	Stop origin's fracking plans
From	Caroline Larwood
Sent	8/13/2022 2:58:30 PM

I do not support fracking and the impact on the environment.
Please do not allow this to go ahead

Caroline Larwood
****
VIC 3144

Lauritsen, Natalie – Sunday, 14 August 2022 – 19:22:48

Subject	Please no fracking by Origin
From	Natalie Lauritsen
Sent	8/14/2022 7:22:48 PM

To the Northern Territory Department of Parks, Environment and Water Security,

I am writing to you as I have heard that Origin wishes to drill and frack several new gas wells in the NT. This is against the wishes of the first nations people and comes at a time when the next natural disaster is just around the corner.

We must respect the wishes of our first nations people if we are to have meaningful reconciliation. I can only imagine how I would feel if Origin wanted to drill in my backyard and be powerless to stop it.

We must also do everything that we can to halt and reverse climate change as fast as we can. Many eminent scientists have said that we need to leave oil, coal and gas in the ground if we are going to avoid warming above 1.5 degrees. People's lives are already being impacted and lost around the world and we haven't got to 1.5 degrees yet. I don't want to imagine what will happen if we do.

Please do not allow Origin to drill in the NT. Why should everyone else bear the cost of their pursuit for profits?

Yours sincerely Natalie

Natalie Lauritsen
****
WA 6530

Lawler, Madeleine – Thursday, 11 August 2022 – 14:12:39

Subject	Please let our children have a future...
From	Madeleine Lawler
Sent	8/11/2022 2:12:39 PM

I am a concerned Australian citizen, hoping desperately that our governments at all levels in all states and territories make the choice to stop any new fossil fuels projects.
I have children. We are passing onto them a future that is disastrous, insecure, unhealthy and deadly.
Please reject expansion on fossil fuels and use your distinct and unique advantage to provide the globe the renewable energy it needs to survive.
Thank you for your consideration.
Madeleine Lawler

Madeleine Lawler
****
QLD 4735

Lawlor, Margaret – Friday, 12 August 2022 – 08:10:32

Subject	It's far to risky; reject Origin's fracking plans
From	Margaret Lawlor
Sent	8/12/2022 8:10:32 AM

To the Northern Territory Department of Environment, Parks and Water Security,

Please reject Origin's latest plans to undertake 12 new fracking drills. Fracking has high risks, and in Australia's fragile environment it is simply not worth taking these risks. Complex water tables can be impacted, and cause unexpected and unpredictable damage leading to devastating environmental impacts. There is also significant damage to climate by the release of gas, and then the subsequent release of carbon emissions from burning that gas.

I believe it is also vital to consult with the Traditional Owners and seek their guidance on environmentally friendly ways of generating energy that protect country, and their culture and cultural heritage.

Please say no to this plan and to all future fracking plans. It is not the direction we should be heading in, anywhere in Australia.

Thank you for your attention to this.

Margaret Lawlor

Margaret Lawlor
****
NSW 2089

Lawrence, Joan – Sunday, 14 August 2022 – 15:49:12

Subject	rls300095@bigpond.net.au stop more fracking.
From	Joan Lawrence
Sent	8/14/2022 3:49:12 PM

As the indigenous always did and still endeavour to do we should protect this precious land and especially from any fracking as planned now to do more.

Joan Lawrence
****
NSW 2089

Lawrence, Peter – Friday, 12 August 2022 – 20:54:29

Subject	STOP ORIGIN'S FRACKING PLANS
From	Peter Lawrence
Sent	8/12/2022 8:54:29 PM

To NT Dept of Environment, Parks and Water Supply,

My name is Peter Lawrence and I'm passionate about ensuring that no fracking or mining on traditional indigenous land is allowed in the Northern Territory.

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

I wish to confirmi that I'm asking the Department to reject Origin's EMP.

With sincere thanks,

Peter

Peter Lawrence
****
VIC 3923

Lawrence, Sarah – Thursday, 11 August 2022 – 15:29:56

Subject	Stop fracking in the NT
From	Sarah Lawrence
Sent	8/11/2022 3:29:56 PM

To the Northern Territory Department of Environment, Parks and Water security,

I am writing to you in response to Origin energy's 12 proposed fracking drills in the Northern Territory. Traditional owners of the land have consistently opposed fracking plans and this proposal clearly is against their wishes. Allowing fracking in this instance will open up a prescient for further fracking and environmental damage, in addition to the damage done by these drills. Please consider the long term health of the environment as well as the rights and wishes of traditional land owners.

Kind regards,
Sarah Lawrence

Sarah Lawrence
****
WA 6076

Lawrence, Stuart – Saturday, 13 August 2022 – 14:16:50

Subject	stop Origin fracking plans
From	Stuart Lawrence
Sent	8/13/2022 2:16:50 PM

dear minister the Origin fracking plans will destroy the environment and so please stop right now

stuart lawrence
****
NSW 2011

Lawton, Richard – Monday, 15 August 2022 – 11:50:53

Subject	Fracking in N T
From	Richard Lawton
Sent	8/15/2022 11:50:53 AM

all fracking should stop until we know the extent of the damage it causes, especially to the water table

richard lawton
****
VIC 3145

Leach, Richard – Friday, 12 August 2022 – 19:38:04

Subject	Stop dirty fracking on indigenous land
From	Richard Leach
Sent	8/12/2022 7:38:04 PM

Most dirty type of mining that must be stopped

richard leach
****
NSW 2218

Leach, Tanya – Saturday, 13 August 2022 – 08:24:53

Subject	Protect the precious land in NT
From	Tanya Leach
Sent	8/13/2022 8:24:53 AM

To NT Dept of the Environment

I write from the land of the Larrakia Nation.
I was born in Darwin in 1957.
I have returned to work on Darwin Festival.
Yesterday I spent in Litchfield NP.
The fragility of this ancient land should be respected and available for all visitors.
I have joined protests with Traditional Owners in Sydney.
These people know and live through the land. When they object please listen.
Short term gains could ruin more precious physical and spiritual treasures.
Thank you for noting my personal objection to fracking in NT.
Best wishes
Tanya Leach
8-10 The Drive
Stanwell Parl 2508

Tanya Leach
****
NSW 2508

Leago, Stephen – Sunday, 14 August 2022 – 15:07:08

Subject	Do not permit fracking
From	Stephen Leago
Sent	8/14/2022 3:07:08 PM

There are many reasons to not allow fracking, here are a couple:
1. Respect the wishes of first nation peoples.
2.Gas is a fossil fuel, therefore.....
3. The cocktail of chemicals that are used in the fracking process are generally not disclosed by these companies, SO DON'T RISK THE ENVIRONMENT.

stephen leago
****
VIC 3461

Leahy, Kathleen – Saturday, 13 August 2022 – 21:02:24

Subject	Stop Origin Fracking in NT (or anywhere)
From	Kathleen Leahy
Sent	8/13/2022 9:02:24 PM

Dear NT Dep of Environment & Water,
Please do not let Origin frack traditional First Nations' country and cause dangerous increases in carbon and methane emissions that will massively affect global warming.
We have lost decades to limit the harm to our habitats so we cannot keep stoking the fossil fuel fire. Please be part of the solution rather than one of the major causes of the climate horror that will bring more floods, fires, droughts, extreme weather, coastal erosion, melting glaciers & permafrost, destruction of ecologies, extinction of native species, loss of potable water and arable land and so on.
I now have grandkids and am terrified for them, traditional owners, all Australians and the people of the globe.

Kathleen Leahy
****
NSW 2300

Leaney, Charlie – Saturday, 13 August 2022 – 04:49:54

Subject	Stop origin fracking
From	Charlie Leaney
Sent	8/13/2022 4:49:54 AM

Northern Territory gov. Please listen to the wishes of the people that you represent and have supported in the past. Water is life

Charlie Leaney
****
NSW 2326

Lee, Barbara – Friday, 12 August 2022 – 16:55:32

Subject	Origin must not be allowed to frack in NT
From	Barbara Lee
Sent	8/12/2022 4:55:32 PM

To the Northern Territory's Department of Environment, Parks and Water Security.
Greetings and salutations.
My name is Barbara Lee and I am the grandmother of 5 children. I live in Carlton Melbourne with 2 of them and the other three live in Bendigo. As a family we are concerned with the impact climate change is having on our lives.
I am furious to hear that Origin is still persisting with trying to get access to NT country to frack the land. Not only one fracking well but TWELVE. This will threaten, water, cultural heritage and our already affected climate. The traditional owners have been trying to stop Origin for years, why hasnt it been stopped?
I do hope you have the courage to decide this matter on the basis of the needs of the traditonal ownners, not the self-serving members of Origin's board and management.
We should all be prepared to reign in our wishes and appetites for the good of the country as a whole and our future children, my grandchildren.

respectfully yours

Barbara Lee

Barbara Lee
****
VIC 3054

Lee, Barry – Friday, 12 August 2022 – 14:25:27

Subject	Don't smash the planet
From	Barry Lee
Sent	8/12/2022 2:25:27 PM

No new Gas or coal. This is the only safe way forward. Fast track hydrogen/electric. All of the old technologies are environmentally disastrous. All are expensive relative to the green technologies. This is especially true counting and including the cost of ongoing floods and fire. Extreme weather is now a world wide and regular occurrence and will worsen as we continue with dangerous emissions. At some point we will reach the tipping point at which time we cannot turn back. Lets hope we are not there yet and our powers have the foresight to curtail smashing the planet.

Barry Lee
****
QLD 4655

Lee, Chris – Thursday, 11 August 2022 – 16:47:54

Subject	Please stop Origin's fracking plans in the NT
From	Chris Lee
Sent	8/11/2022 4:47:54 PM

To: Northern Territory Dept of Environment, Parks and Water Security.

I am a civil engineer and project manager and worked for many years with oil and gas companies, particularly Shell, in the UK North Sea, the Netherlands, Brunei and New Zealand, and I have good understanding of the process of gas extraction, processing and delivery. I ask you to prevent Origin's fracking for gas in the NT for reasons of climate impact and threat to groundwater resources - reasons amongst others that I understand the traditional owners are also objecting to Origin's plans. The environmental damage of gas is always understated without proper regard for the effect of fugitive emissions, which are likely to make gas's climate impact equivalent to that of coal. We in Australia are particularly vulnerable to the effects of climate change so we have to put ourselves in a strong position to advocate for emissions reductions by other countries - and we can only do this if we are making exemplary efforts ourselves. If we continue to put short term profit ahead of climate action then we will have not influence on other countries and will suffer the consequences of their continuing emissions.

Please stop Origin's gas production plans. Give us a chance to advocate for climate action globally so that we can protect Australia's future.

Thank you and best wishes

Chris Lee

Chris Lee
****
NSW 2088

Lee, Jenny – Sunday, 14 August 2022 – 11:02:53

Subject	stop new fracking drills
From	Jenny Lee
Sent	8/14/2022 11:02:53 AM

Please do not ignore the wishes of most Australians including traditional owners and allow fracking it destroys our water and climate

Jenny Lee
****
TAS 7304

Lee, Joy – Thursday, 11 August 2022 – 15:54:33

Subject	Origins Plans to Establish 12 more fracking drill Needs to be stopp0ed
From	Joy Davison Lee
Sent	8/11/2022 3:54:33 PM

I do not understand how the Northern Territory can allow 12 more fracking drills in the Northern Territory especially now we know about the terrible results of climate change. The destruction of land and especially water would be detrimental to the environment and could set a precedent for other fracking companies. For the sake of Australia and Australians please do not allow.
Thank you
Joy Davison-Lee
unit 5-10 Dibbs Street, Lismore NSW 2480

Joy Davison Lee
****
NSW 2480

Lee, Meewun – Sunday, 14 August 2022 – 11:25:17

Subject	Please act to stop fracking by Origin
From	Meewun Lee
Sent	8/14/2022 11:25:17 AM

Dear NT Dept of environment, parks and water security,

Fracking is not sustainable. It threatens water, cultural heritage and adds to our emissions. Please act responsibly and protect our environment and climate from fracking.

Yours sincerely,
MeeWun Lee

MeeWun Lee
****
QLD 4122

Lee, Roger – Friday, 12 August 2022 – 06:51:42

Subject	STOP NEW FRACKING - YOU KNOW YOU MUST
From	Roger Lee
Sent	8/12/2022 6:51:42 AM

Common sense tells us that new developments in fossil fuel exploration, mining & use are damaging to the environment & must be curtailed for the benefit of humanity & where these activities destroy or severely impact customary or sacred territory preventing them should be a no brained.
New fracking must be prevented particularly given the real danger to impacts on subterranean water.
TYERE ARE ALTERNATIVES.

Roger Lee
****
NSW 2323

Leeman, Grusha – Monday, 15 August 2022 – 15:52:16

Subject	deadline time?
From	Grusha Leeman
Sent	8/15/2022 3:52:16 PM

Good afternoon,
Just wondering what time today is acceptable to you for providing comment on the "Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program"

cheers

Grusha

Leeman, Grusha – Monday, 15 August 2022 – 22:32:40

Subject	Deny Origin's Amungee NW Delineation EMP
From	Grusha Leeman
Sent	8/15/2022 10:32:40 PM

Dear Hon Environment Minister Lauren Moss

Thank-you for taking my concerns with Origin's Amungee NW Delineation EMP into consideration. Please ensure this EMP is rejected. Tell Origin no. We simply cannot allow the processes and structures we have built to be ignored. That is the path to anarchy. Origin has an exploration license. That means absolutely no production sales.

As promised, we are expecting all of the 135 Pepper recommendations to be completed in full before any consideration of production. The EDO says we are a long way from the Pepper Inquiry conclusion that "provided that all of the recommendations made in this Report are adopted and implemented in their entirety, not only should the risks associated with an onshore shale gas industry be minimized to an acceptable level, in some instances, they can be avoided altogether."

The Pepper Inquiry found fracking the NT could result in 100 million tonnes per year of emissions boosting Australia's emissions by another 20% every year. Wrong way: go back. To begin such an internationally embarrassing calamity is criminal. Many people will die as a result. We must desist with all plans to release our safely stored gases and keep our planet habitable.

The climate impacts of combusting the gas must be fully addressed in a passable Environmental Plan, yet Origin appears to have failed this obvious requirement. Minimizing the real impacts of their proposal makes it clear they are not serious about looking after our beloved Northern Territory. This is grounds for cancelling their exploration licenses as they cannot be trusted.

In addition, the 20th Century is long gone, and it is unacceptable that there is no attempt to keep climate impacts of this project as low as reasonably possible (ALARP).

Offsetting of the emissions was granted as a response to avoiding killing our precious fragile climate. It is unconscionable to plan to offset avoidable pollutants in other places when they have their own pollutants to vanish. In the NT, there are no easy unallocated offsets to manifest for this unnecessary project. We could add a big tax to avgas: limiting the airforce from flying for 11 months of the year just might do it. Or would removing our cattle be easier? Avoiding the problem is much better than trying to fix up the massive messes.

All possible offsets must be kept for the emissions we have already released. It is much too 1980s to be planning on releasing new climate pollutants and hoping they can be offset. To ensure zero net increase in emissions from fracking development, simply deny them production licenses. It won't fit under the carpet.

We cannot afford to smash our precious biodiversity, clean groundwater or habitable climate. In these heady days of Treaty and Voice, we cannot ignore the persistent and adamant refusal of the First Nations custodians to allow fracking. The NT is not deserving of being a sacrifice zone.

So we cannot afford to grant Origin the right to drill these wells. Say no to this one Lauren. Be my hero.

Grusha Leeman

Lees, Maryann – Sunday, 14 August 2022 – 15:35:22

Subject	Please do not allow Origin to frack
From	Maryann Lees
Sent	8/14/2022 3:35:22 PM

Origins plans to put 12 new fracking wells is poorly thought through. These new wells will pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been actively defending their country against these wells for years. Traditional owners have repeatedly said no. No means no.

There is so much to be concerned about Origin's plans.

The climate impacts would be huge, and that's only when considering the emissions they're actually counting.

Origin will also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking, remote Aboriginal communities that rely on this water will be left without water.

Water is such a precious resource. We should not be risking it in the pursuit of profit.

I hope you will strongly consider stopping the approval of these wells.

Kind Regards
Maryann Lees

Maryann Lees
****
NSW 2296

Lehane, Quentin – Thursday, 11 August 2022 – 15:44:12

Subject	qlehane@gmail.com
From	Quentin Lehane
Sent	8/11/2022 3:44:12 PM

Australia being slug by exporting most of it's gas and all this does is to add to the hugely profitable export business; it's not in Australia's interests to support greedy multi-nationals.

Quentin Lehane
****
VIC 3084

Lehmann, Mikailah – Thursday, 11 August 2022 – 16:16:37

Subject	Stop Origin Fracking our Lands
From	Mikailah Lehmann
Sent	8/11/2022 4:16:37 PM

i am against plans to frack any of our land. The underwater supply system in Australia is unique and we need to keep it clean . we have enough ecosystem damage without fracking ! I fully support the indigenous peoples fighting this industry from contaminating our land.

mikailah lehmann
****
WA 6010

Leighton-Daly, Phillip – Friday, 12 August 2022 – 16:15:30

Subject	Fracking
From	Phillip Leighton-Daly
Sent	8/12/2022 4:15:30 PM

I am concerned about the pollution of the groundwater especially whereby it could contaminate the Great Artesian Basin. The welfare of any inhabitants in the vicinity should be a primary concern also. Comprehensive scientific investigations should be undertaken along with assurances and responsibilities.

phillip Leighton-Daly
****
NSW 2577

Lelliott, Michael – Sunday, 14 August 2022 – 10:18:37

Subject	michael481@bigpond.com
From	Michael Lelliott
Sent	8/14/2022 10:18:37 AM

to Northern Territory Department of Environment,Parks and Water and Security
It is Aboriginal Land TREAD LIGHTLY and look after Australia's water resources

michael lelliott
****
NSW 2430

Lemp, Roland – Saturday, 13 August 2022 – 14:42:18

Subject	No Fracking!!
From	Roland Lemp
Sent	8/13/2022 2:42:18 PM

We don't want out country and water destroyed even more by corrupt people!!

Roland Lemp
****
NT 0810

Leonard, Alison – Sunday, 14 August 2022 – 18:47:18

Subject	No fracking for the future
From	Alison Leonard
Sent	8/14/2022 6:47:18 PM

At this time in human history, with climate charge/ catastrophe in full swing the very idea of fracking is beyond abhorrent. I understand we need energy. I've understood this since I was 10. My father was an electrical engineer and was a key person in the snowy hydro power scheme.
We then lived in the Solomon Islands and he implemented better hydro power schemes.
So, Origin, be better. Look ahead. You could herald in the way of fully renewable resources and stop contributing to the death of our planet.
You'll still make money. You'll actually make more money as going fully renewable will mean, simply, there are humans left on earth who need energy.
Regards,
Alison Leonard.

Alison Leonard
****
NSW 2482

Leonard, Diane – Thursday, 11 August 2022 – 16:41:41

Subject	STOP ORIGI'S FRACKING PLANS
From	Diane Leonard
Sent	8/11/2022 4:41:41 PM

If the NT government approves these plans it would be allowing Origin to destroy the climate, the water supply and the environment.
We need to save our

diane leonard
****
NSW 2261

Leslie, Judith – Thursday, 11 August 2022 – 14:22:38

Subject	Fracking for gas is a threat to water and land and is unjustifiable
From	Judith Leslie
Sent	8/11/2022 2:22:38 PM

Australia does not need to mine more gas (The profits to line the pockets of the ultra-rich)
We need sensible policies to reserve more of the obscene amount that is exported. THEN we need to concentrate more and more to a transition away from gas towards renewable energy sources

Judith Leslie
****
NSW 2330

Leslie, Loretta – Saturday, 13 August 2022 – 11:37:01

Subject	Stop Origin's Fracking Plans
From	Loretta Leslie
Sent	8/13/2022 11:37:01 AM

Fracking is a flawed process that destroys water courses and habitat. That Origin is going ahead with fracking exploration without abiding by due process is a mark of the company's disrespect for the traditional owners, the citizens of Australia and the state authorities. If the government gives in and approves these illegal operations, it will give a green light to every unscrupulous operator to target the territory making a mockery of the government and the people.

Loretta Leslie
****
VIC 3922

Lester, Michael – Saturday, 13 August 2022 – 17:45:36

Subject	The ignorance/arrogance of "Aqua Nullius" in Fracking N.T.
From	Michael Lester
Sent	8/13/2022 5:45:36 PM

The Great Artesian Basin connects vast areas of underground Australia. Ramifications of tampering with it must not be underestimated. Once degradation occurs, it cannot be turned back.
Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

michael lester
****
NSW 2483

Lethbridge, Kirstin – Sunday, 14 August 2022 – 17:28:12

Subject	Stop Origin's fracking plans
From	Kirstin Lethbridge
Sent	8/14/2022 5:28:12 PM

To the Northern Territory Government,
Thanks for reading this mail.
Why do you prioritise listening to ORIGIN over the consistent voice of TRADITIONAL OWNERS? Origin want to make money for themselves while traditional owners care for the country they love and live in..... not just for short term gain (like Origin) but to keep country healthy for the generations to come.
Doesn't climate mean anything to this government?
It is crucial that no new fracking projects are commenced.
Thanks
Kirstin Lethbridge

Kirstin Lethbridge
****
VIC 3138

Lethlean, Lizz – Saturday, 13 August 2022 – 16:28:23

Subject	RE Origin's EMP in NT submission.
From	Lizz Lethlean
Sent	8/13/2022 4:28:23 PM

Dear Legislators,

I am writing to you via the NT Govt submission process concerning Origin's plans for exploratory fracking in the NT, in particular the Beetaloo Basin.

I know you will observe that I am Victoria, and therefore at the other end of the country but I have followed the fracking outcomes world-wide for getting on a decade now and am horrified to see that these practices that I oppose are occuring here in Australia in our beloved top end.
This disenchantment is also strengthen by the fact that they are about to occur on remote country by an energy company that the consumer advocacy company CHOICE judges as

Origin Energy is among the worst performers in our green electricity assessment, with 1.5 stars out of 10.28 Mar 2022

I implore you to reject Origin’s EMP.

I would also like you to assure me that due process is undertaken in regards of the traditional owners concerns about each site and the impact fracking will have upon their country and culture. For too long have the rights of aboriginal people's been swept aside in decision making processes where vast amounts of money are to be made.

The aquifer beneath the Beetaloo basin is an ancient water source that must be preserved, intact for all time, for all peoples.

Only yesterday the ABC reported the appalling facts around indigenous remote communities lack of access to clean drinking water. Why endanger this underwater source? All the safeguards promised will be meaningless for our future as a whole, if exploitation of natural resources via gas fracking even chances to jeopardise water supply, above or below ground. It is simply a risk not worth taking. It cannot be repaired if damaged.

Once again, I ask the Department to reject Origin’s EMP

With respect,

Lizz Lethlean
1 Melbourne Road
Williamstown VIC 3016

Lizz Lethlean
****
VIC 3016

Letts, Richard – Saturday, 13 August 2022 – 15:14:23

Subject	Do not allow Origin's reckless fracking plans
From	Richard Letts
Sent	8/13/2022 3:14:23 PM

To Northern Territory government
Origin intends to set up 12 new fracking drills in the NT, against the wishes of the individual owners and the health of the planet, the NT and its people.

Obviously, as a responsible government you will not permit this.

Richard Letts AM

Richard letts
****
NSW 2000

Levick, Barbara – Friday, 12 August 2022 – 16:00:29

Subject	Origin can't be allowed to expand its fracking
From	Barbara Levick
Sent	8/12/2022 4:00:29 PM

We know, without any doubt, that fracking is environmentally irresponsible. Origin have no social licence to expand its fracking in the Northern Territory (or anywhere else). Their actions threaten valuable water, which might have implications for many generations.

We know, without any doubt, that any type of mining of fossil fuels has to stop now. At the very least we need to stop any expansion of thermal coal and unconventional gas.

Listen to the traditional owners and those who care about the environment, both in the Territory and as part of our planet.

Please reject Origin's plans.

Thank you
Barbara Levick

Barbara Levick
****
TAS 7210

Levingston, Jillian – Saturday, 13 August 2022 – 21:42:32

Subject	STOP ? Origin's fracking
From	Jillian Levingston
Sent	8/13/2022 9:42:32 PM

STOP Northern Territory's proposed fracking plans by Origin
Stop the destruction of our beautiful planet earth
STOP THESE PLANS TO ADD TO THE DESTRUCTION OF OUR PLANET

Jillian Levingston
****
NSW 2489

Levy, Catherine – Friday, 12 August 2022 – 14:10:47

Subject	Use your weight: say no to fracking the Betaloo
From	Catherine Levy
Sent	8/12/2022 2:10:47 PM

Dear NT Dept of Environment,
Living in Qld, i know NT as a visitor, and love its beauty and unique environment. It is as a lover of Australian environment, that i respectfully ask the NT government, to not support Origin's plans for fracking. Rather, use NT territory's plentiful sun to support reviewable energy -make NT a model of solar environment and be ahead of the energy expansion in the future.
Look forward to new solutions, rather than dirty, damaging, outdated ones.
Please say no to Origin's plans for fracking.
Thanking you in advance for your kind attention,
Best regards,
Catherine

Catherine Levy
****
QLD 4159

Lewick, Charles – Thursday, 11 August 2022 – 14:57:32

Subject	Fracking must never be used in Australia
From	Charles Lewick
Sent	8/11/2022 2:57:32 PM

Hi I wish to add my concerns to Origins' fracking approval plans.I can understand (perhaps) the need to use this method to extract natural gas, in a country where no other alternatives are available.But Australia is so rich in alternative fossil fuels and has untapped and unexplored natural gas fields,where it's processing does not the include fracking process.For instance Victorian State Government has a blanket ban on gas & oil exploration.
Why would any State Government want to impose fracking , where the overseas experience has shown that this method has destroyed the underground artesian water supplies.This poison then has in turn poisoned the water supply for drinking & domestic use .It also will cause eventually the degradation of the artesian water supplies that supply our agricultural and natural rainforest world heritage areas.(down the track as fracking will only increase,once the big energy companies realise that it's good for their bottom line of vast profits.Of course these are generally owned and financed by overseas investors including China ,who could not give a brass Yen for what the process of fracking has done to bigger up country.
I am not a radical "Greenie" ,just an Aussie who hates long term destruction of our lands.
Thank you very much for giving me a opportunity to share my strong objections.The process's of fracking should never be used as an option in Australia.

Charles Lewick
****
VIC 3042

Lewin, Kate – Saturday, 13 August 2022 – 21:20:51

Subject	Fracking is Wrong. W_R_O_N_G
From	Kate Lewin
Sent	8/13/2022 9:20:51 PM

Why?
Why is fracking considered feasible?
The land is not theirs, yours or anybody's to frack?
The destruction of the water table, the pollution of the existing or remaining underground water? Are these not reasons enough to say, No - that's enough.
But the further degradation of the environment, and indigenous country & cultures is a breathtakingly disappointing path for Australians to take.
Let alone the obvious contribution to global warming and global greed.
Please stop it now -
Thank you,
For your time -
In hope that fracking in the NT will stop now

Kate Lewin
****
NSW 2578

Lewington, Leonie – Friday, 12 August 2022 – 15:26:40

Subject	Stop Origin's Fracking Plans!
From	Leonie Lewington
Sent	8/12/2022 3:26:40 PM

The Minister
Northern Territory Department of Land, Environment and Water Security
Dear sire
I am writing out of great concern on hearing the news that mining companies are intending to carry out fracking along the Carpentaria Highway!

Fracking carries great risks to the environment, to water, which is extremely scarce in remote Australia, and particularly to the livelihoods and wellbeing of people living in remote Indigenous communities!

I exhort you to use your ministerial powers to stop this dreadful process, before more of our beautiful country is ruined!

Yours sincerely
Leonie Lewington
Colbinabbin
Victoria 3559

Leonie Lewington
****
VIC 3559

Lewins, Angela – Saturday, 13 August 2022 – 09:21:34

Subject	SAY NO TO FRACKING PLEASE.origin are greedy and dangerous
From	Angela Lewins
Sent	8/13/2022 9:21:34 AM

Please please don’t submit to greed powerful insane people trying to sway you to say yes and give them the green light to permanently degrade our country for a quick buck.
You were voted in to your job, that doesn’t give you the right to do the wrong thing. SAY NO TO ORIGIN, SAY NO TO FRACKING, READ REPORTS FROM OTHER COUNTRYS WHO SAID YES, SEE THE SICKENING UNNECESSARY PERMANENT DAMAGE DONE TO THEIR COUNTRY DIRECTLY FROM FRACKING.
Please remember you inner child, your children and future generations need you to say no and put in place LAW that always says no to fracking.
Thank you for reading my request. Angela Smith, Mother, career of Australian Land and everything living.

Angela Lewins
****
VIC 3942

Lewis, April – Thursday, 11 August 2022 – 17:43:08

Subject	Strop Origin's wreckless fracking plans
From	April Lewis
Sent	8/11/2022 5:43:08 PM

April Lewis. 5031
I can't believe that you're allowing Origin to frack more!!! What is wrong with you? We need to protect and preserve our water and land. Life depends upon it. You cannot eat money… unbelievable.

April Lewis
****
SA 5007

Lewis, John – Thursday, 11 August 2022 – 17:31:49

Subject	Stop Origin Fracking in NT
From	John Lewis
Sent	8/11/2022 5:31:49 PM

Northern Territory Dept of Environment Parks and Water Security
Dear Sirs,
I strongly object to any expansion of Fracking in Australia, Fracking will create irreversible damage to aquifers and water resources in the NT, as has been continually observed from US experience.
It is unconscionable that a Government would consider permitting such an environmentally disastrous process for such a short term monetary gain.
Please put a halt to it.
Sincerely,
John Lewis

John Lewis
****
QLD 4877

Lewis, Margaret – Saturday, 13 August 2022 – 14:29:09

Subject	Stop Origins fracking plans
From	Margaret Lewis
Sent	8/13/2022 2:29:09 PM

Northern Territory doesn't need these fracking plans that Origin is deciding on without proper consultation with the local indigenous peoples. This is why we need this planned referendum so as the Indigenous peoples can make authentic approaches to the government if the day. History needs protecting as there is no surveys that have been carried out to my knowledge of where there are sites of cultural significance.

Margaret Lewis
****
NSW 2323

Lewis, Simon – Saturday, 13 August 2022 – 14:35:57

Subject	Stop Origins Fracking Plans
From	Simon Lewis
Sent	8/13/2022 2:35:57 PM

NT Department of Parks and Water Security,

I can’t believe that I even need to write to you and urge you to reject Origins plans for 12 new fracking sites. Please, reject this absurd risk to our water supply, environment and further climate crisis.

Regards, Simon Lewis

Simon Lewis
****
VIC 3068

Lewis, Will – Sunday, 14 August 2022 – 08:13:30

Subject	Stop Origin's Fracking Plans
From	Will Lewis
Sent	8/14/2022 8:13:30 AM

Hi there,
Please don't let Origin frack in the NT. It will end in tears, hurt and irreparable damage to country and to the people who rely on it. Please let your legacy be one of standing up for what's right. Don't be myopic! Too much of that in politics. Our land is precious and we know we need to chanfe what we're doing to turn this ship around!
Thank you
Will Lewis

Will Lewis
****
VIC 3013

Lewis-Peel, Helen – Monday, 15 August 2022 – 17:46:13

Subject	Stop Origin's reckless fracking plans.
From	Helen Lewis-Peel
Sent	8/15/2022 5:46:13 PM

Fracking drills affect the water and the land around that water. This can then have far reaching affects on the people who rely on that water and that land. The traditional owners and even those who have lived in this area for an extended time do not want their land changed by fracking. Those doing the fracking do not care about the consequences of their actions. They also do not want to set a precedent to other frackoing corporations. Can you image the conequences of this?

Helen Lewis-Peel
****
QLD 4561

Liberty, Elspeth – Friday, 12 August 2022 – 15:58:12

Subject	Stop Origin's Fracking Plans
From	Elspeth Liberty
Sent	8/12/2022 3:58:12 PM

Please respect First Nations people and their land and stop destroying country. Please prohibit Origin's Fracking plans.

Sincerely,

Elspeth Liberty

Elspeth Liberty
****
TAS 7316

Lieberman, David – Sunday, 14 August 2022 – 19:16:56

Subject	Dear
From	David Lieberman
Sent	8/14/2022 7:16:56 PM

Dear Minister

I am concerned that fracking will damage water sources, damage indigenous sacred sites and encourage other companies to seek to do the same.
Most importantly it will release gases that will reduce our ability to reduce our to ability to meet our goals.
Respectfully David Lieberman

David Lieberman
****
NSW 2021

Lightfoot, Dennis – Saturday, 13 August 2022 – 15:47:45

Subject	Canberra's gas exit plans.
From	Dennis Lightfoot
Sent	8/13/2022 3:47:45 PM

For the moment there may be reason to explore for more gas production. However, gas (like coal) continues to insist on maintainng the use of old fossil fuel carbon producing technology. The latest move by Canberra, has put an exit date on the use of gas within that city. Many other cities will follow suit and gas use will certainly be out dated and in rapid decline. Therefore any further permits for gas exploration will be short lived and economically unviable. Time to reject all demands for fracking or any other form of gas mining.

dennis lightfoot
****
SA 5633

Lilley, Victoria – Sunday, 14 August 2022 – 20:53:30

Subject	Stop Origin from Fracking
From	Victoria Lilley
Sent	8/14/2022 8:53:30 PM

Traditional owners do NOT WANT FRACKING & neither do I.
Its got to stop. For goodness sake, gas is so expensive. I have experienced gas heating in Canberra 1992 to 2011.
Electricity is much cheaper.

Please just for once be on the side of climate change.

Yours sincerely
Victoria Lilley
163/15 Cockcroft Avenue, Goodwin Village, MONASH ACT 2904

Victoria Lilley
****
ACT 2904

Lim, Nigel – Saturday, 13 August 2022 – 17:20:02

Subject	Stop Origin's fracking plans
From	Nigel Lim
Sent	8/13/2022 5:20:02 PM

Dear Sir / Madam,

I write in opposition to the plans by Origin to open twelve new fracking drills in the Northern Territory.

This is an awful plan which endangers access to clean water, threatens to increase our dependence on fossil fuels and worsen the climate crisis, and encroaches on the cultural heritage of Traditional Owners. It will also set a precedent for other corporations to do the same.

Instead, we should be seeking to expand our renewable energy architecture to prevent climate catastrophe and avoid environmental disaster. This must be done in a way that respects the rights of Traditional Owners.

I ask that you reject these plans and choose a better way forward for our energy future.

Nigel Lim
****
SA 5307

Lincoln, Todd – Saturday, 13 August 2022 – 08:52:38

Subject	If not you, then who? If not now, then when?
From	Todd Lincoln
Sent	8/13/2022 8:52:38 AM

Northern Territory Department of Environment, Parks and Water Security,

When will the greedy corporations realise that without this planet we have nothing?
Allowing any fracking to continue is one step closer to irreversible damage.
Please listen to our aboriginal elders, the original custodians, who looked after this amazing country for so long.
We don't want this. Please do the right thing.
If not you, then who? If not now, then when?

Todd Lincoln
****
VIC 3222

Lipscomb, Peter – Friday, 12 August 2022 – 16:12:42

Subject	Stop Origin's Plans for fracking in the NT
From	Peter Lipscomb
Sent	8/12/2022 4:12:42 PM

Origin has plans for twelve new fracking drills in the Northern Territory despite the fact that they haven't completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals to safe guard country, water, and climate.
Fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to but Origin is doing anything they can to bypass proper processes, all without consent.

The NT Government should not approve these plans, it would not only be paving the way for Origin to frack and destroy country, water, and climate.

Peter Lipscomb
****
NSW 2293

Lister, Suzannah – Saturday, 13 August 2022 – 15:12:52

Subject	No New Gas
From	Suzannah Kennett Lister
Sent	8/13/2022 3:12:52 PM

Not too long from now, any decision to allow new gas expansion will surely be recognised for what is already is, a crime against humanity. If we have any chance of protecting a habitable planet, gas and coal expansion has to stop. Lead the way.

Suzannah Kennett Lister
****
SA 5064

Little, Trent – Sunday, 14 August 2022 – 06:23:37

Subject	Ban fracking now !
From	Trent Little
Sent	8/14/2022 6:23:37 AM

To the NT government,

Please do not let origin frack our beautiful country for there out right greed and disregard for the Australian community.
Protect our country from these thieves.
Origin Causing long time damaged that’s unrepairable should be on you.

Concerned citizen Trent Little

Trent Little
****
SA 5606

Lloyd, David – Friday, 12 August 2022 – 18:06:09

Subject	Stop the fracking
From	David Lloyd
Sent	8/12/2022 6:06:09 PM

Northerd Territory Government. As a science eductor (BSc: MSc) and studies in futures (PhD) it is very clear that we need to address climate change. fracking must stop AS IT CONTRIBUTES SIGNIFICANTLY TO green house gas concentrations and hence climate change and all the changes that go with it. I cannot understand why it is allowed.

David Lloyd
****
SA 5152

Lloyd, Helen – Thursday, 11 August 2022 – 14:29:01

Subject	Fracking
From	Helen Lloyd
Sent	8/11/2022 2:29:01 PM

Stop endangering environmental destruction make Australia aa example to world environment

Helen Lloyd
****
NSW 2283

Lockwood, Leonie – Saturday, 13 August 2022 – 12:01:12

Subject	Stop Origin's fracking plans
From	Leonie Lockwood
Sent	8/13/2022 12:01:12 PM

I write to express my deep concern about Origin's fracking plans in the Northern Territory. Whilst I am based in Melbourne, any decision made by the NT government will affect not only the local Traditional Owners but all of us in Australia.
If these plans are approved it opens the door to more fracking applications in the NT. This will spread to other states.
And whilst the companies claim that their processes don't destroy waterways, numerous environmental studies have been completed that note extensive damage to waterways due to fracking.
Fresh water is an essential for everyone, particularly those in remote communities who frequently rely on freshwater plants and fish for food and water sources.
The extensive cattle and cotton farming industries also require fresh water.
The current gas shortage along the Eastern seaboard is due to gas companies not setting aside enough gas for local consumption. We have plenty of gas already in Australia without fracking, but companies such as Origin have little consideration for the Australian community in terms of gas distribution and prefer instead to make greater profits for shareholders.
Gas in an old and expensive energy source. The NT government should be looking to lead the way in renewable energy instead of reverting back to archaic technology.
Whilst I am not an environmental scientist, you don't need to be one to understand the extensive damage that fracking does. Which is why fracking is banned in a number of countries across the globe.
I'd ask you to reject Origin's application to frack in the Northern Territory.
Yours sincerely,
Leonie Lockwood

Leonie Lockwood
****
VIC 3051

Loftus, Miriam – Sunday, 14 August 2022 – 17:58:06

Subject	Origin's Fracking Plans in the N.T.
From	Miriam Loftus
Sent	8/14/2022 5:58:06 PM

I am writing to you, the Northern Territory Government, to demand that you do not approve the Origin plans to open twelve new gas wells. If these wells go ahead, they will severely threaten water resources, Indigenous cultural heritage and undermine our targets to reduce greenhouse gases. As well, it would grossly undermine the wishes of the Traditional Owners of country who do not want these destructive wells on their land. I believe your government knows this, but continues to over-rule the people who have effectively 'owned' the land for thousands of years. And worse, the whole world is experiencing the dramatic affects of climate change -floods, fires and droughts - and major gas fracking projects will only exacerbate this urgent problem into the future. You must decide - is money more important than life itself? The world (and Australia) must transition rapidly to renewables if we want to save this beautiful planet. Instead of allowing polluting and dangerous industries such as gas wells, have you considered the options of cleaner renewables such as solar, wind and battery storage? This is where future long-term profits lie. In the not too distant future, all dirty sources of energy such as coal, gas and oil will be stranded assets because no-one will want to buy them. Please don't wreck our country for short-term gain. It makes no sense! Lastly, it is time that your government shows the respect due to the Traditional owners of these lands by allowing them to make decisions about their country. That is their right, which must take precedence over multinational corporations such as Origin Energy.
Thank you for your time.
Sincerely,
Miriam Loftus

Miriam Loftus
****
NSW 2446

Logan, Jude – Friday, 12 August 2022 – 17:18:32

Subject	Reject Origin's plans
From	Jude Logan
Sent	8/12/2022 5:18:32 PM

DON'T allow Origin frack and destroy country, water, and our climate. It would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Jude Logan
****
NSW 2456

Lolback, Yvonne – Friday, 12 August 2022 – 15:27:54

Subject	Stop Origin's Fracking Plans
From	Yvonne Lolback
Sent	8/12/2022 3:27:54 PM

We keep saying sorry to First Nations People but then we do exactly as we wish with their land anyway, the way we always have.
The Traditional Owners have been fiercely defending their land against Origin for years. Now Origin wants to open 10 fracking wells on their land, knowing that fracking threatens water, climate and cultural heritage site.
If you approve these, Origin will just continue to do what they like and other companies will do the same.
It's time we mean what we say when we say sorry. Please DON'T APPROVE ORIGIN'S PLANS.

Yvonne Lolback
****
NSW 2777

Lord, Gloria – Saturday, 13 August 2022 – 14:49:17

Subject	Stop
From	Gloria Lord
Sent	8/13/2022 2:49:17 PM

Stop fracking we need to protect our earth listen to First Nations people

Gloria Lord
****
SA 5010

Lord, John – Sunday, 14 August 2022 – 09:42:18

Subject	Origin's fracking plans
From	John Lord
Sent	8/14/2022 9:42:18 AM

I am a concerned Australian citizen who objects to any profit driven ventures that have direct impact on the environment and people's health and safety, in particular, any form of fracking / extraction impacting groundwater supply.
Common sense does not appear on any Government's agenda when money or personal gain is involved.
Government's are supposed to represent Australian Citizens, not 'Big Business' and shareholders.
WAKE UP !!!

John Lord
****
QLD 4551

Lord, Theresa – Friday, 12 August 2022 – 06:35:26

Subject	Senator Bragg is out of line.
From	Theresa Lord
Sent	8/12/2022 6:35:26 AM

With the state of the environment ie 'climate change' being extremely affected by the choices being made by large corporations to continually disrupt the ecology of the earth's environment, Origin is not taking note of of the factual educational information available in regards to the damage causes of fracking. Wake up Origin you are creating a nightmare by setting a precedence for others to follow. Where is you environment policy and respect for first nations people. This is a very risky plan that has the potential to do catastrophic damage to our water supply. We cannot live without clean water, this is a priority to gas.
Please stop this before it too late.
Theresa Lord

theresa lord
****
NSW 2462

Lording, Peter – Sunday, 14 August 2022 – 15:30:02

Subject	NT Traditional Owners are against fracking to protect land, water, and cultural heritage
From	Peter Lording
Sent	8/14/2022 3:30:02 PM

Traditional Owners are defending their country against Origin's plan to open 12 new fracking drills.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack which would destroy country and water, and ignore cultural heritage.

Peter Lording
****
VIC 3127

Lorenz, Anita – Friday, 12 August 2022 – 15:16:22

Subject	Stop Origin's Fracking Plans
From	Anita Lorenz
Sent	8/12/2022 3:16:22 PM

Northern Territory Department of Lands and Waters:
It amazes me that any responsible government is still allowing fracking, knowing the accompanying risks. This is the filthiest industry imaginable and benefits no-one but the fossil fuel magnates sucking up the profits. It leaves a blasted landscape behind... polluted beyond safe use. The soil and water become hopelessly contaminated, and this endangers anyone inhabiting the areas involved. Fracking should be completely banned in Australia. It is neither sustainable nor safe!

Anita Lorenz
**********u
WA 6010

Lorraway, Ross – Saturday, 13 August 2022 – 18:24:04

Subject	Stop Origin's Fracking Plans for the NT
From	Ross Lorraway
Sent	8/13/2022 6:24:04 PM

To the Department of Parks, Wildlife & Water Security
Please do not approve Origin's plans to remove gas, etc via fracking mining in the NT. At a time of crisis in the world in regards climate change, degradation of soils, contamination of water resources, massive loss of animals & plant life from current & potential extinction, loss of first nation's land use, why would any sensible government agree to Origin's proposals? For the sake of Origin's profits? For egoistic government attitudes & designs for power?
Please be sensible! Use common sense! Stand up for humanity, instead of for self interest! Reject Origin's proposal! You will then be looked upon favourably by the good people of NT & of the world, instead of succumbing to the commonly occurring greed which has gripped so many people.
Regards, Ross Lorraway

Ross Lorraway
****
QLD 4703

Lough, Colin – Monday, 15 August 2022 – 19:40:36

Subject	Stop Origins fracking planes
From	Colin Lough
Sent	8/15/2022 7:40:36 PM

Just stop it

Colin Lough
****
QLD 4173

Love, Randal – Friday, 12 August 2022 – 17:05:33

Subject	Stop Origins reckless fracking plans
From	Randal Love
Sent	8/12/2022 5:05:33 PM

To the Northern Territory Department of Environment, Parks and Water Security.
I'm am writing to urge you to not approve Origins reckless gas fracking plans from which Origin is attempting to profit greatly at the expense of expected environmental damage whilst providing almost no tangible benefits for Australian citizens. The Traditional owners have not consented such fracking plans which will likely cause severe damage to the environment, risk water security over large areas of land and accelerate climate change which is already proving very troublesome and costly to all Australians.

Randal Love
****
SA 5089

Lowe, Ian – Thursday, 11 August 2022 – 16:22:01

Subject	Stop Origin fracking in NT
From	Ian And Jan Lowe
Sent	8/11/2022 4:22:01 PM

Hi NT Department of Environment, Parks and Water Security
I am a concerned voter. Origin Energy is obliged to consult traditional owners about the use of their land. Origin Energy has no authority to start fracking in NT, as traditional owners have always opposed it. Please stop it happening.
Ian

Ian and Jan Lowe
****
VIC 3088

Lowen, Judith – Sunday, 14 August 2022 – 12:45:24

Subject	Stop Fracking in NT.
From	Judith Lowen
Sent	8/14/2022 12:45:24 PM

To all this may concern,
I write with urgent sincerity that opening up new gas resources is not economically viable. Investors all over the world are wising up to the fact that our current standard of life can not be maintained by the use of fossil fuels!!
The science and lived experiences of millions of people devastated by fire, flood and high temperatures never seen before is proof. Climate is changing and the smart investors are leaving fossil fuels in the ground.
Northern Territory can stand proud and economically viable if it chooses clean,green and cheaper sustainable energy.
Gas is NOT a long term economical solution.
Yours Judith Lowen

Judith Lowen
****
VIC 3677

Loy, Tegan – Saturday, 13 August 2022 – 08:30:53

Subject	No fracking!!!
From	Tegan Loy
Sent	8/13/2022 8:30:53 AM

Hey NT government peeps,

Could we stop it with the fracking plans already?? I realise it's "profitable", if you count profit purely as short-term monetary increases, but it's super destructive, both in terms of destroying the land it's done on AND worsening climate change, so long term it's super costly. Not worth it!

If you think you need to increase energy production, there are a lot of different types of renewables! Which I'm sure you know! They might be less profitable in the short term, but long term? Definitely better than fracking!

Also people will be happier with you. I realise you're probably not elected officials, but it still sucks when people think your job is bad!

And seriously. Fracking is bad. Stop with it, okay??

Tegan Loy
****
VIC 3084

Lualhati, Jane – Friday, 12 August 2022 – 07:17:21

Subject	Stop Origin fracking
From	Jane Lualhati
Sent	8/12/2022 7:17:21 AM

Dear Northern Territory department of Environment, parks and water security,

I urge you to stop the Origin fracking project. We must respect our beautiful country and preserve it for future generations. This project would ruin the land for all Australian people, Indigenous and non Indigenous. Let's use renewable sustainable energy sources, which are plentiful in the Northern Territory, instead.
If the project went ahead it would seriously damage the precious water supply, and also the tourist industry that supports the community. Let's care for our country so it can care for us. I understand it would be a massive profit making exercise, but I urge you to look to other sources for this such as tourism and renewable energy investment.

Kind regards,
Dr Jane Lualhati

Jane Lualhati
****
NSW 2150

Lucas, Andrew – Thursday, 11 August 2022 – 16:53:48

Subject	Stop Origins fracking plans
From	Andrew Lucas
Sent	8/11/2022 4:53:48 PM

Good Government is tasked with the protection of its people and their interests.
Power/electricity can now be sourced cheaply from renewable clean sources.
Please reject / stop Origin fracking .

Andrew Lucas
****
QLD 4879

Lucas, Mark – Sunday, 14 August 2022 – 15:11:44

Subject	End Origins fracking madness once and for all
From	Mark Lucas
Sent	8/14/2022 3:11:44 PM

Protect the environment and show some respect for the traditional owners of the land, and maybe while you're at it give future generations a chance at survival.

It's that serious - endgame.

Sincerely
A. Mark Lucas
Leichhardt, NSW

Mark Lucas
****
NSW 2040

Lucas, Paul – Friday, 12 August 2022 – 11:50:02

Subject	Stop Origin and its Fracking
From	Paul Lucas
Sent	8/12/2022 11:50:02 AM

To the N.TGovernment members ,
One only has to read the current "State of the Environment" reports for Australia ,the Pacific Islands , Antarctica and other areas on the planet to realize that Gas emissions are a major contribution to the devastastation of thePlanet.Further , as supervisors of the N.T. you must be aware of the danger this fracking will do to indigenous/First Nations' land and culture : TWO reasons why Origin must not be given any permissions to mine gas in the N.T.
Thankyou for caring more for the planet and its peoples !

Paul Lucas
****
QLD 4814

Lucre, Colin – Saturday, 13 August 2022 – 10:24:51

Subject	Fracking the NT
From	Colin Lucre
Sent	8/13/2022 10:24:51 AM

Australia is the driest most under-resourced continent on the planet, in terms of water supply. Yet the process of fracking seriously jeopardises limited underground water tables which when they are polluted will take decades to improve, if ever. The experiences of American farmers and Native Americans who have suffered after Energy companies have fracked their land proves that this is a very dangerous proposition. And for only short term results. Encouraging a company like Origin to frack is the wrong move. Especially in a country so well provided with sunshine. Let's move away from short term profiteering. The NT Government needs to show vision and steer Origin in the right direction for the long term benefit of Territorians, First Nations people and Australians in general.
Kind Regards
Colin Lucre M.A.
Teacher

Colin Lucre
****
NSW 2041

Lulu, Stephanie – Sunday, 14 August 2022 – 12:53:05

Subject	We don't need Fracking destroying the environment
From	Stephanie Lulu
Sent	8/14/2022 12:53:05 PM

Please don't approve fracking. Its common knowledge they use dangerous to human health chemicals and they use a lot of water. Communities up in NT rely on this water.

Australia is a dry continent and it makes no sense to use up our water for big business like Origin.

They make enough profit. Please listen to the citizens. Please consider our safety above money.

Stephanie

Stephanie Lulu
****
VIC 3000

Luxford, Hugh – Friday, 12 August 2022 – 18:06:56

Subject	Stop Origin's Fracking Plans
From	Hugh Luxford
Sent	8/12/2022 6:06:56 PM

It is questionable how relevant new fracking gas fields are in an environment of decarbonisation. Primarily is the issue of damage to sacred sites and cultural heritage.

Is it necessary for Origin to extract relatively marginal gas fields at such a risk of cultural and environmental damage when Australia is flooded with natural gas that is largely going overseas?

Hugh Luxford
****
VIC 3143

Lynch, Deborah – Friday, 12 August 2022 – 23:27:32

Subject	Stop Origin's fracking plans
From	Deborah Lynch
Sent	8/12/2022 11:27:32 PM

To Northern Territory Department of Environment, Parks and Water Security,

It It has come to my attention that there is a window of opportunity to make submissions to your department, concerning Origin Energy's plans to frack in your Territory, despite the wishes of the Traditional Owners.

I live in Tasmania, so this planned activity is not "in my backyard". I am extremely concerned about the effect on the climate, about the effect on Aboriginal cultural heritage and the effect on the water.

I would like a reply to this submission please.

Thank you,

Deborah Lynch

Deborah Lynch
****
TAS 7304

Lynch, Dianne – Saturday, 13 August 2022 – 17:07:37

Subject	Origin's Fracking plans are reckless
From	Dianne Lynch
Sent	8/13/2022 5:07:37 PM

To the Northern Territory Parks and Water Authority
To whom it may concern
Given the climate crisis and Australia's vulnerability re water in general, it is hard to understand how it could be possible for Origin to frack in the Northern Territory. This destructive mining process will destroy country, underground water and add to our climate problems. In Addition it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Please please listen to common sense in this matter and move to prevent fracking from going ahead.
Regards
Dianne Lynch

Dianne Lynch
****
VIC 3930

Lynch, Kerri – Thursday, 11 August 2022 – 16:22:31

Subject	Fracking
From	Kerri Lynch
Sent	8/11/2022 4:22:31 PM

Please stop this fracking from going ahead it is so bad for the planet and our climate leave it alone it is all greed and what are we leaving our grandchildren nothing but a wasteland.

kerri lynch
****
VIC 3934

Lynn, Joan – Saturday, 13 August 2022 – 17:31:13

Subject	Stop Origin's fracking plans
From	Joan Lynn
Sent	8/13/2022 5:31:13 PM

My name is Joan Lynn. While I live a long way from the Norther Territory, in Victoria Australia, I am extremely concerned about the fracking that Origin is wanting to undertake against the wishes of the traditional owners and even without any regard to implementing all the recommendations from the crucial Pepper Inquiry with the 350 recommendations in 2018 vital for the health of the environment and so much more.
Over the years I've learnt the terrible cost to clean water, to the environment, to indigenous people's cultural heritage and including the destruction of farming lands. We do know the effect on the climate.
Amongst so many issues that this plan would undertake, I am horrified to read the amount of water this project would use - 430 million litres of clean water, equivalent to 172 Olympic swimming pools. If that isn't enough to raise my shackles, Origin plans to truck interstate the 90million litres of contaminated waste water.
I believe Origin is behaving in an arrogant manner with no regard to the social and environmental destruction their actions would produce.
It is vital the the NT Government does not approve their plans. If that would happen it would not only provide Origin with this disastrous opportunity, it could also provide a horrifying precedent for other fracking corporations to do exactly the same.
I'm a grandmother and I do not want to continue to see the future of these next generations be eroded in such a destructive and cavalier manner that is completely avoidable. I want to see the increase in sustainable options, renewable energies where there is work and opportunities for the NT communities to flourish rather than fight against corporations that are not caring for a future we all can be proud of.
I am asking the Department to reject Origin's EMP and fully accept my submission and the traditional owners demands

Joan Lynn
****
VIC 3016

M, Colin – Thursday, 11 August 2022 – 18:51:38

Subject	Stop fracking
From	Colin M
Sent	8/11/2022 6:51:38 PM

Stop drilling holes in planet Earth

colin m
****
NSW 2483

Macdonald, Kathy – Sunday, 14 August 2022 – 18:47:46

Subject	Fracking in the Northen Territory
From	Kathy Macdonald
Sent	8/14/2022 6:47:46 PM

Introduction:
I am 75 years old. I've known about climate change induced by fossil fuels for almost 50 years. As have those in the fossil-fuel industry. Now in 2022, everyone can see the consequences of our lack of action, with extreme weather events throughout the world. And we know it's only going to get worse. I dread the inheritance we are leaving my adult children, nieces and nephews, their children and all the others around the world.
I've had a privileged life in so many ways, but the future is looking grim for those that come after. I'm left feeling distressed and angry, and desperate to see positive action in a timely manner. The proposed fracking in the Northern Territory is exactly what we don't need.
I have tried to summarise some of my concerns on the following grounds:
Ground 1: Incompatibility with Science
The Intergovernmental Panel on Climate Change, the International Energy Agency, and the United Nations Environmental Programme comprise three of many reputable organisations from the world's best scientific experts on climate change. They are consistent in stressing the urgent need to boost clean energy, and to reduce fossil fuels. Amongst other recommendations, they clearly state that there can be no further investment in new fossil fuel projects. Otherwise, it will be impossible to transition to a net zero energy system by 2050, while ensuring stable and affordable energy supplies, universal energy access and robust economic growth.
In addition, a recent World Energy Report advises that we [collectively] need to double our current investment in renewables to keep global warming under 2°C, and triple it for a chance to stay below 1.5°C. Clearly, we urgently need to focus on increasing renewable energy and decreasing fossil fuels.
A May 2021 report from UNEP and the Climate and Clean Air Coalition advises that cutting methane emissions is the strongest lever we have to slow climate change. Although methane is a powerful greenhouse gas, it has a relatively short period in the atmosphere. They state that methane emissions can be reduced by 45% this decade, and that such reductions would put the limit of 1.5°C rise of global emissions within reach. Obviously, this will not be achieved with the continuing development of projects such as that proposed in the Northern Territory.
Ground 2: Responsibility:
Australia is already shamed as one of the biggest emitters per capita in the world, and one of the biggest emitters totally – through domestic use and export of fossil fuels. We are a big part of the problem in contributing to climate change, and this project only increases our culpability.
I have travelled in the Northern Territory and am aware of it's stunning landscape and delicate ecosystems. The need for clean water is paramount This would be seriously at risk with fracking and extraction of gas.
Ground 3: Human health
Processing gas results in the release of many harmful chemicals, including benzene, nitrogen dioxide and sulphur dioxide. Many of these are known to impact on human health.
Ground 4: Impact on Cultural Heritage
Failure to consider and fully appreciate the cultural heritage of indigenous Australians is an ongoing shame on for many of those in the fossil-fuel industry, which will be perpetuated with any new gas project.
Conclusion:

Australia does not need more gas. We have more than we need to help facilitate the transition to renewable energy.
What we do need is the increased capacity for growth in renewable energy. Not just for Australians, but for those who have relied on our export of fossil fuels. Investment in such industries would be a huge benefit for all – and is already happening.
We also need government policies that follow the science, and care about the health and well-being of the people. Policies that support the urgent transition away from fossil fuels. [Refusing donations from the fossil-fuel industry would be a good start.]
We need an environmental protection agency that protects the environment. And politicians who put the well-being of their constituents first, rather than the profits of the fossil-fuel industry. Thier interests are not ours.

Kathy Macdonald
****
NSW 2282

Macdonald, Mary – Sunday, 14 August 2022 – 17:33:11

Subject	Stop Fracking in the Northern Territory
From	Mary Macdonald
Sent	8/14/2022 5:33:11 PM

My name Mary MacDonald and I am passionate about the country that I call home but over the last few decades I am so saddened by the climate has been changing to a much warmer one with far less rainfall in some areas and floods in others. This change in the climate has caused the massive destruction of the Barrier Reef. If this continues there will be no icon to attract visitors to our unique sites in Australia. This is because our country has not respected the lands the Traditional Owners have called home for many centuries without massive change to the climate. I am urging the NT Government to respect the Indigenous Traditional Owners and not frack on the NT land. Fracking destroys the water and is affecting the climate. We need to have rules to protect the land, water & climate for future generations. This would not be allowed in other countries.

Mary MacDonald
****
WA 6059

Macdonald, Susan – Sunday, 14 August 2022 – 17:26:24

Subject	Don’t approve Origin’s fracking proposal
From	Susan Macdonald
Sent	8/14/2022 5:26:24 PM

NT DEPWS

Dear madam / sir

I’m writing to you as an Australian profoundly concerned by news of proposed drilling of wells for fracking in the Northern Territory.

The proposal indicates a frightening level of recklessness and disrespect. The traditional owners of the targeted country have made their opposition, and the sound reasons for that opposition, more than clear. The threat to water resources alone should rule the proposed drilling out of consideration.

Many uncontested reports and projections, notably by the IPCC, have made it very clear that no more fossil fuels can be extracted and burnt if a climate compatible with human civilisation is to survive. Despite the deliberately deceptive claims of Origin and other profiteers, that includes no more gas.

It cannot even be truthfully claimed that the proposal would benefit the Territory or Australia, since these companies are 95% foreign owned and pay little or no tax.

I urge you to act responsibly and reject Origin’s irresponsible and destructive proposal and any like it.

Yours sincerely
Susan Macdonald
M: *********

Susan Macdonald
****
ACT 2614

Macdougall, Ian – Thursday, 11 August 2022 – 14:39:32

Subject	FRACKING, ANYWHERE
From	Ian Macdougall
Sent	8/11/2022 2:39:32 PM

WHEN THE GAS IS ALL GONE, SO WILL THE DRILLERS LIKEWISE, LEAVING THE LOCALS TOM DEAL WITH THE DAMAGE THAT THEY WILL LEAVE BEHIND, AND FOREVER. BECAUSE OF 'CONCRETE CANCER' AND THE RUSTING OF STEEL REO BARS, THERE IS NO WAY TO SEAL THE WELLS EVEN HALF OR 1 TENTH AS WELL AS THE NATURAL SEALING THE FRACKERS DESTROY IN ORDER TO GET AT THE GAS. SO I SAY 'FORGET THE WHOLE PROJECT.'

Ian MacDougall
****
ACT 2607

Macgillivray, Robin – Friday, 12 August 2022 – 18:16:02

Subject	Stop Origin's fracking plans
From	Robin Macgillivray
Sent	8/12/2022 6:16:02 PM

NT Dept of Environment, Patks and Water Security.

Do not approve Origin's fracking plans. You know the community is against these projects for scientific and social reasons. Be brave. Stand up to protect the natural systems of the Terrirory, and keep our global emissions down.

Robin macgillivray
****
NT 0820

Macgregor, Barbara – Friday, 12 August 2022 – 15:13:49

Subject	Stop Origins Fracking Plans
From	Barbara Macgregor
Sent	8/12/2022 3:13:49 PM

Our new Federal Govt has just announced its plan to sponsor a referendum to support a Voice to parliament. It is a time of hope. The Northern TerritoryGovernment cannot turn its back on Aboriginal voices now, it would be a disgraceful act of disrespect that would echo around the world
I
I

Barbara MacGregor
****
NSW 2009

Macgregor, Lynden – Sunday, 14 August 2022 – 22:46:54

Subject	Please Refuse and Disallow Origin Energy Proposal for Twelve New Fracking Drills
From	Lynden Macgregor
Sent	8/14/2022 10:46:54 PM

TO: Northern Territory Department of Environment, Parks & Water Security

Re: Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program, 18 July 2022

I write to oppose the proposal of Origin Energy seeking approval for the drilling of twelve new fracking wells in the Northern Territory.

I urge you to deny any such approval and thus stop to the intended imminent commencement of this drilling from proceeding.

These proposed wells threaten our water, cultural heritage, and our climate security.

That threatened damage, destruction and disruption is clear and inevitable if the project is permitted to go ahead; particularly as some elements of such incursions are already present and being suffered by the Traditional Owners; as well as some other communities.

The wider threats to our climate security are readily apparent.
The impacts of the toxic green-house gas emissions would further jeopardise our national capacity to achieve an accelerated reduction of such emissions by 43% by 2030.

As we know from the February 2021 update Report of the Intergovernmental Panel on Climate Change (which draws on the irrefutably findings of some thirty years of research by the world's leading scientists) - and that Report's dire scientific-research-driven prognostications, we must contribute to the internationally agreed need to hold global heating within 1.5 degrees - or face an acceleration of unthinkable, irreversible destructive consequences.

Holding the rate of global heating within that critical 1.5 degrees, the United Nations and the International Energy Agency declare, will require that every nation must now cease from any further expansion beyond present level of extraction from currently operational fossil fuel resources. No exploitation or extraction from any new resource locations.

Adherence to that overall prohibition would certainly include your refusal of this Origin Energy proposal to open up twelve new fracking wells in the Northern Territory.

The destructive impacts upon our Water Security in particular, deserve and require particular attention.

Origin Energy would need huge amounts of water to frack these twelve drills. This equates to the volume of 172 Olympic swimming pools.

The contamination of this volume of water through fracking would be devastating to the remote Aboriginal communities who rely on this water for their existence.

In terms of regulatory requirements, it is deeply concerning that it appears Origin has not even

completed the regulatory processes required to sell the gas which they now propose to frack; and yet selling gas is what these plans would aim to achieve.

Is this Origin Energy proposal seeking to bypass those crucial government approvals?.

Surely a potentially fatal omission?

In Summary:

Surely, so long as fracking (such as that proposed in the present application by Origin Energy) impacts adversely and with such irremediable immediate long term negative consequences for our climate, water, and communities, it cannot be allowed.

This application must be refused and disallowed.

Thank you for the opportunity to provide comments in respect to the present Origin Energy proposal.

Lynden Macgregor
****
ACT 2600

Macgregor, Rupert – Sunday, 14 August 2022 – 22:22:56

Subject	Refuse and Stop Origin Energy Plans for Twelve New Fracking Drills
From	Rupert Macgregor
Sent	8/14/2022 10:22:56 PM

TO: Northern Territory Department of Environment, Parks & Water Security

Re: Origin Energy B2 Pty Ltd environment management plan for the Amungee NW Delineation Program, 18 July 2022

I write to oppose the proposal of Origin Energy seeking approval for the drilling of twelve new fracking wells in the Northern Territory.

I urge you to deny any such approval and thus stop to the intended imminent commencement of this drilling from proceeding.

These proposed wells threaten our water, cultural heritage, and our climate security.

I again support the stand of the Traditional Owners who have consistently opposed fracking anywhere in the Northern Territory.

Their motivation is compelling: for the preservation of country; for the protection of their natural environment; for the preservation of their culture and tradition.

To preserve intact those vital enabling and sustaining elements of their lives, their community cohesion and future.

To prevent these vital elements from being alienated from them; from being irremediably damaged or destroyed.

That threatened damage, destruction and disruption is clear and inevitable if the project is permitted to go ahead; particularly as some elements of such incursions are already present and being suffered by the Traditional Owners; as well as some other communities.

The wider threats to our climate security are readily apparent.
The impacts of the toxic green-house gas emissions would further jeopardise our national capacity to achieve an accelerated reduction of such emissions by 43% by 2030.
That is our present international commitment, one which is in process of being confirmed in legislation which has been passed by the House of Representatives, and currently the subject of review by a Committee of the Senate, to expedite its imminent passage into law.

As we know from the February 2021 update Report of the Intergovernmental Panel on Climate Change (which draws on the irrefutably findings of some thirty years of research by the world's leading scientists) - and that Report's dire scientific-research-driven prognostications, we must contribute to the internationally agreed need to hold global heating within 1.5 degrees - or face an acceleration of unthinkable, irreversible destructive consequences.

This existential need to reduce emissions to a net zero by no later than 2050 is grimly underlined by the stark warning by both the United Nations and the International Energy Agency, that to have any hope of holding the rate of global heating within that critical 1.5 degrees, every nation must now cease from any further expansion beyond present level of

extraction from currently operational fossil fuel resources – and desist from additional exploitation or extraction from any new resource locations.

Adherence to that overall prohibition would certainly include your refusal of this Origin Energy proposal to open up twelve new fracking wells in the Northern Territory.

It is surely time to pause and consider what possible positive costs and benefits ratio could be argued for this or any other such project, when the downside of the equation includes the irreversible ongoing cost to be suffered and borne these communities: the destruction of their futures; devastation of the land, pollution of the water; irreparable degradation of the environment; poisoning of the atmosphere and jeopardising the planet's ongoing habitability.

Against these egregious negatives and costs, the only (perhaps derisory) benefits appear to be some subsidies and profits [on which we earnestly hope they pay some tax] by the company- in the brief transitory period – the end stage of the age of fossil fuels - as the nation transitions to renewable energy sources, with the residual infrastructure left as abandoned and decaying "stranded assets" ...

The destructive impacts upon our Water Security in particular, deserve and require particular attention.

Origin Energy would need huge amounts of water to frack these twelve drills. To put this in sharp perspective, this is indicated to equate to the volume of 172 Olympic swimming pools; a dramatic impact in the driest continent on earth.

The contamination of this volume of water through fracking would be devastating to the remote Aboriginal communities who rely on this water for their existence.

In terms of regulatory requirements, it is deeply concerning that it appears Origin has not even completed the regulatory processes required to sell the gas which they now propose to frack; and yet selling gas is what these plans would do; apparently, by this present gambit, seeking to bypass those crucial government approvals.

It is relevant to consideration of the present Origin application from the perspective that fracking used to be banned in the Northern Territory. So, whence this proposal?

The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to.

But, to the contrary: in this instance it does not appear that those other essential pre-requisites have been undertaken or completed.

Surely a potentially fatal omission?

Conclusion:

The critical issue is, surely, that so long as fracking (such as that proposed in the present application by Origin Energy) impacts adversely and with such irremediable immediate long term negative consequences for our climate, water, and communities, it cannot be allowed.

Thank you for the opportunity to provide comments in respect to the present Origin Energy proposal.

Rupert Macgregor

****
ACT 2600

Mackay, Jessica – Sunday, 14 August 2022 – 12:07:02

Subject	No fracking
From	Jessica Mackay
Sent	8/14/2022 12:07:02 PM

To the Northern Territory's Department of Environment, Parks and Water Security,

My name is Jessica and I am appalled at the idea that you would allow twelve new fracking drills in the Northern Territory. Fracking poses considerable risks to water and climate. Moreover, this project does not have the consent of Traditional Owners, who I stand with. Origin does not care about the damages their fracking causes, they only care about their own profits. This is evident by the fact that they have failed to implement the he recommendations from the Pepper Inquiry.

Therefore, I ask you to reject the Environment Management Plan that has been submitted by Origen.

Jessica Mackay

Jessica Mackay
****
SA 5063

Mackenzie, Corinne – Thursday, 11 August 2022 – 14:26:20

Subject	Stop Origin appalling fracking plans
From	Corinne Mackenzie
Sent	8/11/2022 2:26:20 PM

I am very concerned that Origin Energy has been promoting and pursuing fracking industry for decades and already have "exploratory" fracking wells in the NT.

Please refuse their Environment Management Plan (EMP) to the NT Government that makes up their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Fracking is a risk to country, water, and climate. And their EMP is a disgrace…

_ They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

- They're planning to sell the gas from this proposal – even though they don't have a production license to do so.

- once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

Anyone who believes Origin's claim that by selling gas they will reduce emissions must also believe the world is flat.

Origin's plans to keep the wells open for over five times longer than they actually need for testing creates a massive carbon footprint of over 2 million tonnes of emissions.

Origin are also planning on taking huge amounts of precious water: (430 million litres of water to drill and frack the twelve wells in their proposal). They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

Why are traditional owners not being listened to?
They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

But right now, Origin intends to go ahead with fracking without all recommendations implemented.
For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);

In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP it would show that yet again govt is a conflicted lap dog that sits obediently when big business taps its nose.

NT govt should not be paving the way for Origin to frack and destroy country, water, and our climate.
To do so would be setting an unacceptable precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Your in continuing disappointment
Corinne MacKenzie

corinne mackenzie
****
VIC 3788

Mackie, Liz – Thursday, 11 August 2022 – 15:47:41

Subject	Please stopOrigin’s desperate and lawless fracking plans.
From	Liz Mackie
Sent	8/11/2022 3:47:41 PM

There must be NO NEW FRACKING If. We are to save what remains of our precious land and water. You are in the position tobe able toSTOP thisNOW.
The human race on this plane Tisa endangered species if we don’tstopthe exploitativeprogram thathasminedcoal and gas in ways that brought huge profit to a few mining investors and huge destruction to our land.
We need to stop newexploitation and start working
hard to repair the damage already done.
Please help save Australia andthe human race.
Thank you,

Already done

Liz Mackie
****
NSW 2193

Macklan, Leah – Saturday, 13 August 2022 – 15:33:01

Subject	Stop ruining Australia
From	Leah Macklan
Sent	8/13/2022 3:33:01 PM

Please stop destroying Australia without consent of the first nations people or public opinion. Your greed disgusts us.

Leah Macklan
****
VIC 3162

Maclean, Peter – Saturday, 13 August 2022 – 17:54:25

Subject	Stop Origin's fracking plans
From	Peter Maclean
Sent	8/13/2022 5:54:25 PM

Please reject Origin's fracking plans in the interests of the environment (present and future) and the legitimate objections of First Nation people on their scared land.

Peter MacLean
****
WA 6153

Macleod, Virginia – Friday, 12 August 2022 – 14:25:01

Subject	Do not allow Origin any further fracking rights
From	Virginia Macleod
Sent	8/12/2022 2:25:01 PM

Northern Territory Government Department of the Environment

I am an Australian citizen and it concerns me deeply that fracking is being allowed to continue in NT.

Australia is behind in all aspects of combatting climate change. The prospect of extracting more fossil fuel go against the urgent need to curb global warming. We all know that we need to cut emissions NOW and OPEN NO MORE FOSSIL FUEL SITES.

Futhermore, The local Aboriginal communities' water supply will be depleted and /or contaminated.

Please, I urge do not accept Origin's EMP application to open a dozen more drills for fracking.

Yours Virginia Macleod

Virginia macleod
****
NSW 2095

Maclure, Sybil – Sunday, 14 August 2022 – 16:09:48

Subject	No to Origin's Fracking Plans!
From	Sybil Maclure
Sent	8/14/2022 4:09:48 PM

Dear NT Department Environment, Parks and Water security,
I have lived in Australia for 32 years. I chose Australia as my home because I fell in love with the land and environment here.

In this day and age when we are faced with unprecedented Climate Crisis, and finally finding the maturity to address a First Nations Voice in the constitution, it is totally unacceptable to allow new developments such as Origin's plans to open 12 new polluting fracking drills in the NT.

I trust you will reject this and other such proposals,
Kind regards,
Sybil MacLure

Sybil MacLure
****
QLD 4552

Maconochie, Frank – Friday, 12 August 2022 – 16:03:41

Subject	Stop Origin's fracking plans in the NT
From	Frank Maconochie
Sent	8/12/2022 4:03:41 PM

To the Northern Territory Department of Environment, Parks and Water Security.
I am writing to you to ask you to stop Origin's fracking plans in the NT because: 1) I don't trust Origin to comply with any of the safety regulations required. Fracking companies are notorious for using a bizarre cocktail of toxic chemicals which leave a toxic trail in the Artesian water systems. It may improve their gas harvesting efficiency BUT it make the water system cancerous for human consumption forever. And good luck getting an accurate list of the chemical cocktail or a MDSS prior to them proceeding with their operation. They are not transparent about the toxic chemicals they use or concerned with long term environmental safety; 2) Origin and the other gas fracking companies promote gas as being 50% less polluting than coal burning BUT this does not account for fugitive gas and burning of gas at the well heads which add as much again to the emissions. But good luck trying to get accurate information from Origin about fugitive emissions; 3) and who are the shareholders of Origin? Does the financial benefit of this exploitation go to Australians and first nation folk? Will this company pay any tax or will they play the usual Game of Mates, capturing and corrupting NT politicians with promises of future directorships. And when it's all over, will they clean up their mess or will it be a cost to the taxpayer to remove the pipes that will blight the landscape? I believe the scientists who tell us, that due to fossil fuel emissions our planet is rapidly approaching the point when global temperature rises will make life on earth unsustainable, risking the death of billions of humans. This means that corporations who continue to emit greenhouse gases and the politicians that allow them to destroy the atmosphere are guilty of crimes against humanity.
I ask the NT Government to stand up for humanity and to listen to the calls to stop fracking. I live in hope that sanity, not greed, will prevail and that my grandchildren have a future. Thank you.

Frank Maconochie
****
ACT 2602

Maddox, Shirley – Thursday, 11 August 2022 – 16:31:09

Subject	Fracking in the Northern Territory
From	Shirley Maddox
Sent	8/11/2022 4:31:09 PM

To the Northern Territory Department of Parks and Environment. I am vehemently opposed to the plans of Origin Energy and other companies to frack lands in the Beetaloo Basin. Such fracking would cause irreversible contamination of underground water resources which are the property of all Australians. Such fracking would cause pollution of the air by the methane and other gases which would escape - air which all Australians own and breathe.

It is imperative that all preparations for fracking STOP NOW before further damage is done.

Shirley Maddox

Shirley Maddox
****
NSW 2135

Madell, Bob – Friday, 12 August 2022 – 16:24:09

Subject	Fracking. Known to be destructive to the / our Environment.
From	Bob Madell
Sent	8/12/2022 4:24:09 PM

To the relevant Minister of the NT Gov't., responsible for land & water.
Minister. Please respect the Aboriginal Elders & deny Big Business the access / right to FRACK on identified Aboriginal Lands.
It is well known that FRACKING can & does interfere with the water table & you must know that the Residents of the NT don't want this type of mining to continue.
The Traditional Owners deserve respect & they don't want Fracking on their land/s.
Please honour this request. Regards, BobM.

Bob Madell
****
NSW 2124

Maegdefrau, Pam – Sunday, 14 August 2022 – 18:14:28

Subject	No frocking fracking!
From	Pam Maegdefrau
Sent	8/14/2022 6:14:28 PM

It is not rocket science! Fracking destroys so much that is not ‘repairable’!
Fracking only benefits your corporate aspirations!
It doesn’t benefit the long term future of our Nation!
You have to stop looking for false solutions
We need to go forward and ‘‘embrace sustainable practices. You need to be part of the solution, not part of the problem!

Pam Maegdefrau
****
QLD 4560

Magarey, Christopher – Sunday, 14 August 2022 – 11:42:48

Subject	Do not allow Origin to frack the Aboriginal lands of the NT
From	Christopher Magarey
Sent	8/14/2022 11:42:48 AM

Northern Territory Department of Environment, Parks and Water Security
I am a retired medical practitioner with four beautiful grandchildren with their future ahead of them. Their future should be clean, sustainable and free from pollution. Their environment should be livable. But it is not headed that way because of pollution of the air by CO2 and global warming, as well as pollution of the land and sea by industrial and domestic waste.
Fracking of the NT to produce methane for fuel is the opposite of what is needed for our grandchildren, especially the aboriginal people of the NT. Fracking uses huge amounts of precious water needed for the survival of the ecosystem and the people living in the NT, and it pollutes the ground water which will become undrinkable. The traditional owners of the land are opposed to the extraction of methane and have not given permission.
CO2 produced by burning the methane will add to the CO2 already in the atmosphere to increase global warming. The scientific body of the United Nations has made it clear that there should be NO NEW gas fields or coal mines if there is any hope of maintaining a livable environment. Methane escaping into the atmosphere during extraction, transport and distribution is vastly more potent greenhouse gas.
There can be no justification whatsoever for removing vast quantities of subterranean water, risking polluting what is left, and significantly adding to global warming.
Please do not allow extraction of methane from the NT.

Christopher Magarey
****
NSW 2223

Magill, Raymond – Friday, 12 August 2022 – 14:22:43

Subject	stop origin fracking
From	Raymond Magill
Sent	8/12/2022 2:22:43 PM

As an Australian I am deeply concerned about the NT gov giving permission for fracking on indigenous land that the gov has no ownership of against the wishes of the traditional owners . Please respect their rights as they have a much better track record of looking after the environment than any non indigenous person.

Raymond Magill
****
NSW 2526

Magner, Brigid – Thursday, 11 August 2022 – 18:57:28

Subject	brigid.magner@rmit.edu.au
From	Brigid Magner
Sent	8/11/2022 6:57:28 PM

To the Northern Territory Department of Environment

I am horrified to discover that Origin plans to open twelve new fracking drills in the Northern Territory. It's obvious that these wells will significantly threaten water, cultural heritage, and our climate.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Given the well recognised need to counter climate change, this is going in the wrong direction. Our recent election showed the overwhelming public support for climate action. I implore you to take action to stop these plans in their tracks.

Yours sincerely,
Brigid Magner
RMIT University

Brigid Magner
****
VIC 3058

Maguire, Kathy – Saturday, 13 August 2022 – 21:11:37

Subject	Stop Origin's fracking plans
From	Kathy Maguire
Sent	8/13/2022 9:11:37 PM

This huge proposal to frack 12 new wells and operate them for at least three years and sell off the gas, before Fracking Inquiry recommendations about gas production have been implemented, is a serious risk to the Territory, our water resources - particularly our extensive groundwater systems and associated ancient ecosystems , and the climate.

No to Australian fracking - take this elsewhere to a country and indigenous communities, other concerned Aussies and a scientific community who doesn't care - wait - that might just be hard to find!!

Kathy Maguire
****
NSW 2250

Mahy, Tessa – Saturday, 13 August 2022 – 14:24:50

Subject	Fracking is destroying- block Origin
From	Tessa Mahy
Sent	8/13/2022 2:24:50 PM

To the Northern Territory Department of Parks and waterways

My name is Tessa and I reject the business plans of origin energy in fracking activities. Gas found will become a stranded asset as the future belongs to renewable energy.

Furthermore, no consent has been obtained from traditional land owners.

Our climate targets won't be met and future generations will suffer for short term profits.

Regards
Tessa Mahy

Tessa Mahy
****
VIC 3222

Mailfert, Friederike – Thursday, 11 August 2022 – 16:19:25

Subject	Beetaloo Basin - fracking by Origin- submission
From	Friederike Mailfert
Sent	8/11/2022 4:19:25 PM

To the Northern Territory Department of Environment, Parks and Water Security
Put a stop to Origen's plans for fracking in the Beetaloo Basin. Enough damage has been done to our environment and the results will only add to global climate change. Apart from this it seems that all the profits from gas extraction goes to companies like Origen while the Australian public get little of the benefits. These companies have too much power over Governments. It's time to put a stop to this exploitation especially of First nations people.
Yours sincerely
Friederike Mailfert

Friederike Mailfert
****
NSW 2350

Makin, Terry – Saturday, 13 August 2022 – 15:44:40

Subject	Fracking must stop in Beetaloo Basin
From	Terry Makin
Sent	8/13/2022 3:44:40 PM

Best projections say We are not going to meet our Global Heating reduction goals of 1.5 degrees. Therefor opening up Beetaloo Basin to fracking for Gas which is basically Methane is madness and a criminal act. Much of this land is First Nations Land and they have not given their permission. My grand children deserve these key decisions to be made now. Please show courageous leadership.
Yours faithfully
Terry Makin. DDA. M.App.Sci.
36 Eamon Dr. VIEWBANK. 3084

Terry Makin
****
VIC 3084

Mammone, Lucy – Sunday, 14 August 2022 – 17:48:53

Subject	Please do not allow Orgin to Frack the NT
From	Lucy Mammone
Sent	8/14/2022 5:48:53 PM

The NORTHERN TERRITORY DEPARMENT OF ENVIRONMENT ,PARKS AND WATER SECURITY
I am writing as I am deeply concerned about the effects of Coal Seam Gas (CSG) and shale mining on the water supply and the environment in Australian and indeed the rest of the world I am sure you appreciate that clean water is fundamental for good health and it is arguably the most important resource in food production .I believe unpolluted potable water and food production are amongst the most challenging issues for the world. Origin's dubious proposal will need 430 million litres of water to drill and will result in nearly 100 million litres of toxic wastewater. I wonder if this disastrous proposal is allowed to go ahead if the damage to the atmosphere will be repairable
Origin has not acted on the recommendations from the Pepper inquiry which I believe they duty bound to .They have a terrible track record in regard to respecting indigenous rights and culture . It is complete madness in my opinion to allow such a detrimental type of mining and continue to insult and damage the First Nations peoples .
.Although I do not live in the Northern territory , I have experience firsthand the devastating effect of huge bushfires closely followed by excessively flooding The general public are not the naive idiots that the Liberal National coalition tried to take us for , we can see climate change we can see this is related to poisonous activities like mining .Now is the time for a change for a better future .Please do not agree to this proposal instead please disagree to it and do something positive for the future instead of lining some rich, tax avoiding companies pocket .
Thank you very much for taking the time to read my submission
Yours sincerely,L Mammone

Lucy Mammone
****
NSW 2430

Manieri, Paul – Thursday, 11 August 2022 – 14:45:42

Subject	Stop the Fracking
From	Paul Manieri
Sent	8/11/2022 2:45:42 PM

I am not from the NT or Aboriginal however Origons plans to open new fracking wells camnnot be allowed to start .this places the region in danger of pollution to the water supply and destruction to country this will concern all Australians who do not wish to see this Reckless origon plan get off the ground will you please procede
with all due haste in rejecting Origons reckless plans for these projects thank you for your time

Paul Manieri
****
NSW 2518

Mann, Trish – Friday, 12 August 2022 – 18:53:13

Subject	Stop climate change ...stop origin...stop fracking
From	Trish Mann
Sent	8/12/2022 6:53:13 PM

To NT Dept of environment and water.
Dear Sir/Madame
The world is turning to renewables for our energy needs.
Allowing Origin to frack for gas against the wishes of the local indigenous communities and against at least half of the country as evidenced at the last Federal election is wrong
Please stop the Origin company from bulldozing it's way through Aboriginal land and make a statement for the future of the planet.

Trish Mann
****
NSW 2483

Manners, Allison – Thursday, 11 August 2022 – 15:14:45

Subject	Stop Origin Fracking
From	Allison Manners
Sent	8/11/2022 3:14:45 PM

Dear NT Government

Time is running out to halt the increasing impacts of climate change, and the progressive deterioration in our environment.

We must work together to make good decisions that benefit all of society and particularly, protect the land, water and air.
The shocking environmental impacts from fracking are known worldwide, causing irreversible damage to water quality; water tables, land health and air quality.
The State of the Environment Report 2021 clearly outlined the ongoing degradation of Australia's environment - particularly stating the significant environmental destruction to waterways and aquifers that need immediate protection. We are at red alert stage in Australia.

This is the decade we need to act responsibly to start protecting nature and to reduce our greenhouse gas emissions on a global scale.
This fracking project will produce massive Scope 3 emissions that are the world's problem and therefore, OUR problem. We cannot believe that Scope 3 emissions are OK - we will all suffer the impacts of climate change (and already are) regardless of Scope 1, 2 or 3 emissions. It is time to stand up, be responsible to the next generation and say No to fracking.

Furthermore, Origin and their project have not adopted all the recommendations from the Pepper Inquiry, and wastewater management has been poorly addressed.
The Traditional Owners of this Country have been defending their lands against Origin for years. Their lands must be protected.
The NT is a beautiful place - a region unparalleled in its beauty and spirituality. Nature and connection to nature is palpable when walking through Country in the NT. If this project is allowed to proceed, this land will never be the same again. And its cultural significance to First Nations peoples has been ignored. Shame on you for such ignorance.
NT Govt, you can do the right thing for nature, for the Traditional Owners, for next generations. Say NO to fracking and stop Origin from fracking in your beautiful Country.

Thank you for taking action to protect our precious Australia.

Regards
Allison Manners

Allison Manners
****
WA 6010

Manners, Sean – Sunday, 14 August 2022 – 17:19:35

Subject	Fracking plans by Origin in NT needs to be STOPPED
From	Sean Manners
Sent	8/14/2022 5:19:35 PM

Hi.
My name is Sean Manners and I have travelled across the NT both South to North and Westwards and enjoyed the unique, exquisite natural wonders of the NT outback.

I have also seen the ghastly, wrecked environment around Chinchilla, QLD. All due to fracking. I have seen first hand the damage both to the land and waterways.

When will we, humans, ever stop the greed; the destruction; the wrecking of the environment; all in the cause of the so called almighty dollar.

Origin seems to care little about the First Nations people, the fact it is their land, or the fact of a heritage stretching back over 60,000 years. NO the dollar is more important.

Well it is not!

Australia as a country, and especially NT as a Territory, should be really standing up and saying NO to fossil fuels. Origin could be investing the same amount of money into renewable energy, which the NT government could welcome, as could First Nations people.

I am asking the NT government to firmly reject Origin's Environmental Management Plan

Yours Sincerely
Sean Manners

sean manners
****
TAS 7303

Manning, Donna – Saturday, 13 August 2022 – 14:57:09

Subject	No fracking by Origin in the NT
From	Donna Manning
Sent	8/13/2022 2:57:09 PM

To the Northern Territory Department of Environment, Parks and Water Security
I'm writing to support the people of the NT - particularly the indigenous people who have so often been without voice - in stating that this land should not be destroyed with fracking.
We have seen enough evidence of fracking destroying water tablelands.
The NT is in a position to protect its large bodies off water from such damage.
Origin's plans for fracking in the NT show complete disregard for the environment and will cause irreversible damange.
We need to respect the land and the people of the NT - Please show ethical and responsible leadership and say no to fracking.

Donna Manning
****
NSW 2304

Manning, Joyce – Thursday, 11 August 2022 – 14:58:54

Subject	STOP the fracking!
From	Joyce Manning
Sent	8/11/2022 2:58:54 PM

I am someone that cares about our country and I know that NO ONE or ANYTHING can live without water & fracking uses lots of precious water & also contaminates water and can cause birth defects, neurological problems, blood disorders and cancer.
Australia is a dry country and we can not afford to lose or contaminate ANY of our water, our wildlife & people need the water

PLEASE stop Origin's plans of fracking

Sincere thanks
Joyce

Joyce Manning
****
NSW 2315

Manno, Rueben – Thursday, 11 August 2022 – 14:52:47

Subject	Origin's Unsustainable Proposal
From	Rueben Macdougall Di Manno
Sent	8/11/2022 2:52:47 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I am a young Australian who has watched a decade of inaction and outright sabotage in climate policy during my adolescence. I watched, helpless, as climate change ceased to be a moral concern about our future and instead became an existential crisis of the present. I'm looking forward to joining my peers and our allies to become a part of the solution.

But the truth is, we can't afford to go backwards. Year after year the Intergovernmental Panel on Climate Change reports that 1.5° has become unachievable, but we continue to pour fuel on the fire. The Territory has a target of net 0 emissions by 2050 and 50% renewable energy by 2030 - no accounting tricks can hide the fact that new gas exploitation will fail to comply with these targets.

Origin claims that natural gas is necessary in the transition to a low carbon future. While it's true that we cannot immediately stop using gas, building new gas infrastructure will actively increase emissions. I implore you not to approve the fracking of Country in the Betaloo and across the state. Instead, issue permits to projects from proven, economically rewarding, and renewable sources.

Sincerely and in hope,
Reuben Macdougall Di Manno

Rueben Macdougall Di Manno
****
VIC 3451

Mansted, Søren – Friday, 12 August 2022 – 14:30:33

Subject	Please Stop Origin's Fracking Plans
From	Søren Mansted
Sent	8/12/2022 2:30:33 PM

Dear NT Dept of Environment, Parks and Water,

I am a father of two teenagers and a mechanical engineer. I have a very solid understanding of energy generation and energy needs and strongly believe we can move to a carbon neutral energy system using only solar, wind, hydro, batteries and green hydrogen.

There is absolutely no need to open any new gas fields (or coal mines) and doing so will only make the climate emergency worse.

Please do not allow Origin to frack the NT.

Søren Mansted
****
ACT 2602

Mantell, Barbara – Sunday, 14 August 2022 – 08:48:29

Subject	Stop frackin fracking
From	Barbara Mantell
Sent	8/14/2022 8:48:29 AM

Fracking destroys the land and pollutes the water. Don't frack!

Barbara Mantell
****
QLD 4001

Mantell, Jan – Sunday, 14 August 2022 – 15:50:38

Subject	Stop Origin's fracking plans
From	Jan Mantell
Sent	8/14/2022 3:50:38 PM

To NT Dept of Parks and Gardens.Fracking has been shown internationally to cause harm to water supplies and waterways. With these already under stress due to Climate changes and taking into account the need to preserve and protect the land, I call on the NT govt to do so.
Regards
J Mantell
Concerned Australian citizen

Jan Mantell
****
WA 6023

Manuela, Alicia – Saturday, 13 August 2022 – 14:16:13

Subject	Stop Origin's Fracking Plans
From	Alicia Manuela
Sent	8/13/2022 2:16:13 PM

Gas is in the past and Origin wants to keep us there. It makes no sense to do exploratory drilling for gas when the world is moving towards renewable energy.

As a country, and as a world, we must learn from history, and it's clear that fracking is damaging to our water systems, the land, and that it contributes negatively to climate change. We also know that there are better, cleaner options available. Why then, would we continue to make these "dirty" choices for energy, when there are cleaner, more efficient options available that we could be moving towards?

Please don't approve Origin's plans for 12 new fracking drills in the NT. Please do better for Australia and the world by saying no to our "gassy" past and helping us move towards a clean future where generations to come can flourish and thrive.

Alicia Manuela
****
NSW 2036

Mardel, Michael – Friday, 12 August 2022 – 18:50:28

Subject	Origin's fracking plans in the NT
From	Michael Mardel
Sent	8/12/2022 6:50:28 PM

These wells would threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
sincerely
Michael Mardel
79 Swallow St
Port Melbourne VIC 3207
****

Michael Mardel
****
VIC 3013

Markham, Ernest – Thursday, 11 August 2022 – 15:40:58

Subject	WATER UR GREATEST RESOURCE.
From	Ernest Markham
Sent	8/11/2022 3:40:58 PM

WATER is our greatest RESOURCE and needs protecting at all times. The CLIMATE CRISIS will wait for no one. Do not destroy the Environment any further,

Ernest Markham
****
NSW 2333

Markiewicz, Christy – Friday, 12 August 2022 – 14:40:45

Subject	Stop origin’s fracking
From	Christy Markiewicz
Sent	8/12/2022 2:40:45 PM

Please stop the fracking of this precious and fragile and unique land by Origin.

christy Markiewicz
****
SA 5019

Marks, Greg – Friday, 12 August 2022 – 14:50:00

Subject	Submission: Origin Energy B2 Pty Ltd environment management plan (EMP) Amungee NW Delineation Program
From	Greg Marks
Sent	8/12/2022 2:50:00 PM

I wish to make the following Submission to the Northern Territory Department of Environment and Water Security.

Introduction

I have a strong and abiding interest in the Northern Territory, including the region of the proposed Beetaloo gas fracking projects. I previously lived in the Territory, have maintained close links and networks in the Territory and am au fait with the situation there.

In terms of qualifications, I am an economist and a published international lawyer, specialising in Indigenous Rights.

The EMP

After considering the EMP I find that this application is not well founded, has serious potential detriments and pre-empts full and detailed assessment of the risk profile of the proposal.

Issues of water security are a particular problem. There is insufficient detailed scientific assessment in respect of pollution, over extraction and disposal of waste water. The idea of trucking waste water interstate is a nonsense. A problem is not solved by landing it on someone else's doorstep. This apparently hasty and ill-thought through proposal throws doubt on the whole application.

Noting that the proposal goes much further than what is normally understood by "exploration", emissions of greenhouse gases is another significant issue. The emissions will be very large, whether the gas recovered is held back or used immediately. Origin may be prepared to flout the concerns of the wider community about reining in such emissions (as shown. inter alia, by the recent Federal election outcome) but others are not, and neither should the Department be prepared to allow this project to go ahead on this ground alone. This is hardly the way for Australia to reduce emissions, noting that there is abundant supply of gas for the domestic markets once the relative oversupply to off- shore markets is corrected.

We do not need this gas for Balance of Trade purposes. The economy is doing very well on this front without this gas from Amungee Mungee and Shenanddoah pastoral leases. Indeed, as an economist I am concerned by the economic viability of the proposal over the medium to long term. The key question is externalities. It has to be conceded that problems with water quality and quantity, plus surface environmental degradation will emerge down the track. Remedying these, to the extent possible, will need to be paid for. Experience has shown that such costs very often end up being borne by the taxpayer.

Any of these concerns I consider significant. However, as an International lawyer I cannot quite believe that the concerns and opposition of Aboriginal people can be so easily ignored or dismissed. We are in dangerous territory here in terms of compliance with our international obligations, in terms of both customary and treaty law. Key international instruments include the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP), which Australia supports, the International Convention on the Elimination of All Forms of Racial Discrimination (ICERD) which Australia has ratified, and the International Covenants on Civil and Political Rights (ICCPR) and on Economic Social and Cultural Rights (ICESCR), both of which have also been ratified by Australia. When we come to cultural rights we get to the nub of it. The likely impact on the cultural rights of Indigenous Australians flies in the face of all Government policy, particularly at the national level. When it comes to Indigenous rights, this proposal and similar in the Beetaloo basin are playing with fire – the potential reputational damage to Australia is immense.

It is time for Origin to pull back, and let these and related matters be properly and respectfully assessed in due course. In my considered view it would be quite wrong for this EMP to be approved at this time.

Recommendation

The EMP under consideration be rejected.

Greg Marks BA (Economics); Dip Ed; M Int Law (Indigenous Rights); MAIATSIS

Curtin ACT 2605

Attached Documents

Marks, Karen – Thursday, 11 August 2022 – 14:38:58

Subject	Stop Fracking!!
From	Karen Marks
Sent	8/11/2022 2:38:58 PM

stop, do not destroy our underground water and pristine country with this horrendous practice

Karen Marks
****
SA 5162

Markwell, Suzette – Friday, 12 August 2022 – 14:59:12

Subject	Please Stop Fracking in the Northern Territory
From	Suzette Markwell
Sent	8/12/2022 2:59:12 PM

We cant afford any new fracking in the Northern Territory. We have already seen climate disasters in Australia and we must wake up and stop any new deadly projects destroying our land.

Suzette Markwell
****
QLD 4220

Marsden, Marilyn – Thursday, 11 August 2022 – 19:40:48

Subject	ORIGIN MUST STOP ALL FRACKING PLANS
From	Marilyn Marsden
Sent	8/11/2022 7:40:48 PM

As a former customer of Origin, I have to say that the reason I write here is to tell everyone that the reason I changed to another supplier was because of their connections to the evil of fossil fuels. One must be devoid of humanity entirely to even consider fracking anywhere much less on the lands of Traditional Owners. Does this organisation have absolutely no integrity?

Marilyn Marsden
****
NSW 2400

Marsden-Sayce, Warren – Sunday, 14 August 2022 – 06:11:14

Subject	Stop fracking
From	Warren Marsden-Sayce
Sent	8/14/2022 6:11:14 AM

You are destroying our land and the future generations land for the short term greed of corporate companies and financial gain. Stop these fracking practices right now the consequences out weigh and potentially benefits.

Warren Marsden-Sayce
****
VIC 3165

Marston, Robert – Saturday, 13 August 2022 – 06:04:02

Subject	Stop Origin's Fracking Plans.
From	Robert Marston
Sent	8/13/2022 6:04:02 AM

Are we the most stupid animals on the planet? We foul our own nests, we foul everyone else's nest, and we are so short sighted as to assume someone else will clean up after us. One of the reasons that cars were such a boon in the early 20th Century, was because the big cities couldn't handle the mountains of horse poo that they were accumulating. Now we face the same problem with fossil fuel poo! And we have the answer in renewable energy. Do we have a vision for the environment for our children and grand-children? Or are we so duped by the almighty dollar, that we will sell our souls for one night in Paradise, and the devil take the rest?

In a country with all the resources required to implement a renewable energy industry that is becoming more economically affordable by the day, Australia could and should be leading the world into a safe and sustainable future.

Robert Marston
****
VIC 3672

Martin, Anthony – Thursday, 11 August 2022 – 15:27:17

Subject	Fracking Decision
From	Anthony Martin
Sent	8/11/2022 3:27:17 PM

The 'Origin' application to proceed with fracking wells must not be approved. It's dreadful for the planet and disastrous for the local indigenous folk. Unless a MAJORITY of them endorse the/a plan, please decline Origin's application.

anthony martin
****
NSW 2223

Martin, Elaine – Saturday, 13 August 2022 – 14:45:40

Subject	Stop Fracking
From	Elaine Martin
Sent	8/13/2022 2:45:40 PM

Good afternoon
I am a 90 year old grandmother most concerned about climate change and the effect it will have on our future generations (my grandchildren and their children and YOURS
FRACKING IN THE NORTHERN TERRITORY MUST NOT HAPPEN
I dread to think of our country. The NT GOVERNMENT MUST LISTEN TO THE TRADITIONAL OWNERS and the effect that this fracking will have. It will destroy country, water and our climate
I urge you to please do not let this happen
\
Elaine Martin

Elaine Martin
****
QLD 4070

Martin, Elsa – Saturday, 13 August 2022 – 20:34:11

Subject	No public money for gas in the Federal budget. Stop Origin's Fracking Plans
From	Elsa Martin
Sent	8/13/2022 8:34:11 PM

To the Northern Territory Ministry of Environment,Parks and Water.
Please reconsider the decision to let Origin frack for gas.
As Origin has plans to open twelve new drills, this threatens water, cultural heritage and climate, just at a time when around the world it is becoming ever clearer that these are the valuable things we need to preserve.

The use of gas is being phased out, so this is a backward step and in addition, would pave the way for other fracking corporations.

I understand that the traditional owners have been working to keep the water in a healthy state and have not consented to the presence of Origin.

I feel this is an urgent and important matter, with severe consequences for the Northern Territory and also for Australia.

Yours sincerely,
Elsa Martin

Elsa Martin
****
VIC 3113

Martin, Helen – Sunday, 14 August 2022 – 17:06:02

Subject	Stop Origin's Fracking Plans
From	Helen Martin
Sent	8/14/2022 5:06:02 PM

Northern Territory Department of Environment, Parks and Water Security,
For some time I have been following the development of fracking for gas by several companies in the Northern Territory with dismay.
The further development of twelve new sites by Origin is hard to believe when the traditional owners' demands are being ignored.
I believe Origin want to fast track these wells without the appropriate licence; have not accounted for or made plans to address the full climate impacts,they would need to use incredible amounts of water and deal with the contaminated water following the fracking of the gas.

Origin has not implemented all the recommendations from the 2018 Pepper Inquiry to mitigate the environmental, social, cultural and economic risks associated with fracking.
I believe the Northern Territory lifted the moratorium provide the 135 recommendations were implemented.

If the Northern Territory Government allows Origin to go ahead with their EMP it is quite feasible that the water system so relied upon by the First Nations people living in this area will become contaminated. If white Australians were living in this area I am sure this destroying of country and water supplies would not take place.

As a very concerned older citizen I would strongly ask the Northern Territory Government to consider the future and to deny Origin the rights to take these precedents which would allow further fracking development in the NT.

Yours Sincerely,
Helen Martin

Helen Martin
****
SA 5065

Martin, Roslyn – Friday, 12 August 2022 – 15:09:46

Subject	Please do not allow Origin's fracking plans
From	Roslyn Martin
Sent	8/12/2022 3:09:46 PM

To the Northern Territory Department of Environment, Parks Water Security,

I write to ask that you DO NOT approve Origin's fracking plans.
Our family live in Regional Victoria and we recently visited the NT in June, for the first time. We were amazed by how unique and special this part of the country was. It has become a popular destination for many and feedback has been unanimous. The NT is a special place. It would be a shame to allow an energy company to use the land for short term profits and potentially leave a legacy of destruction in it's place. The NT natural environment should be preserved for the current inhabitants and for future generations. Big corporations tend to have a terrible track record of saying all the right things before approval and then there's no guarantee once approved, whether they will abide by them. The result being the environment being negatively and possibly permanently impacted.
I very rarely act or write in these instances, but feel strongly about this issue. Please do not approve Origin's application.
Thank you
Roslyn Martin

Roslyn Martin
****
VIC 3444

Martin, Ross – Sunday, 14 August 2022 – 07:57:39

Subject	No to fracking
From	Ross Martin
Sent	8/14/2022 7:57:39 AM

To the Northern Territory Department of Environment, Parks and Water Security.

My name is Ross Martin and I live in Cooma a town in the Snowy Mountains region of NSW and Ngarigo country.
I oppose any and all gas fracking and would urge you to oppose it as well. The reason you should not allow fracking is in your name which says you protect assets vital for survival and community health and well-being. Fracking will irreversibly damage environment and lead to more and far worse climate heating. Fracking will damage country both for scenic value and culturally. Fracking will irreversibly contaminate and render water unfit for use.
I urge you to oppose any and all gas fracking and be true to your name and function.
Regards Ross Martin
168 Bidgee Rd Cooma NSW

Ross Martin
****
NSW 2630

Martinich, Tanya – Saturday, 13 August 2022 – 20:00:23

Subject	Stop origin energy Amungee application for 12 new gas wells
From	Tanya Martinich
Sent	8/13/2022 8:00:23 PM

Dear Hon environment minister Lauren Moss,
My name is Tanya Martinich and I work in Katherine as a doctor.

I am writing to you as I am extremely concerned regarding origins amungee nw delineation emp.

I am appalled to see the consideration of further 12 new exploration and appraisal wells. The state environment report makes it very clear we are facing an existential crisis in the Northern Territory with research indicating that the tropical northern savanna's are the second most intensely collapsing ecosystem in Australia and northern Australia has the highest mammal extinction rate in the world. Fracking will contribute significantly to this issue. We are all, humans and all other species, part of and completely dependent on our ecosystem for survival. With a collapsed eco system there is no future for anyone in the nt.

I am asking you as the minister to reject this emp due to the significant impacts it loses to climate , local biodiversity and ground water.
I request this emp is referred to the environmental protection agency under the environment protection act for complete assessment given the significant impacts it will have on climate water and biodiversity.

My specific concerns include
1) origin is actually going to sell this gas to macarthur river mine and keeping their wells open for 5 times the required duration for testing. This is dubious production. Their licence is exploration only, not production. Before production takes place the need to renegotiate consent from the traditional owners as per the senate enquire this year.

2)climate impacts
535651 tonnes of direct scope 1 green house gas emissions will be released by origins proposal. Origin has not addressed the scope 3 emissions.

3) biodiversity.
There is significant risk to threatened species through land clearance. 60 km of lines and another 111 hectares. No monitoring or protection of stygofauna. Risks of wet season waste water overflow and contamination.

4) excess water use.
430 million l of water are needed for origin to drill its wells. This water should be available for the ecosystem, not given to a private multinational al company that pays minimal tax for free. Also 90 million L of contaminated water will need to be trucked interstate.

Please stop origin moving to production by stealth and refuse the emp. Please take my significant concerns seriously and I will be following this mater and your action on it closely.

Yours sincerely
Dr Tanya Martinich MBBS FACRRM
Katherine NT

Tanya Martinich
****
NT 0851

Mason, Barbara – Saturday, 13 August 2022 – 16:45:20

Subject	Stop Origins lack of consent fracking plans
From	Barbara Mason
Sent	8/13/2022 4:45:20 PM

To the Northern Territory Sept of Environment, Parks and Water Security

Origin is reckless, and instead of listening to the Traditional Owners and the communities around the country united behind them, they are doubling down by doing anything they can to bypass proper processes, all without consent.

Origin has launched plans for twelve new fracking drills in the Northern Territory but these new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years. And so are many other people in Australia who are fed up with the empty words of honouring the Indigenous, even apologizing for the stolen generation, yet its all words and no action. This making a mockery of words without action.

Barbara Mason
****
QLD 4670

Mason, Kevin – Saturday, 13 August 2022 – 14:36:55

Subject	Stop all fracking in the Northern Territory
From	Kevin Mason
Sent	8/13/2022 2:36:55 PM

Fracking has been shown in other countries to cause immense damage. It poisons the water affecting everyone and everything that uses it. It will also add to climate changes, releasing gas. Please don't let any fracking to take place. The people who live in the area are against it but the companies are still pushing ahead with plans to start fracking very soon.

Kevin Mason
****
NSW 2121

Mason, Paul – Saturday, 13 August 2022 – 14:55:42

Subject	Origin Energy and Fracking in the NT
From	Paul Mason
Sent	8/13/2022 2:55:42 PM

Good afternoon,
My name is Paul Mason and I feel compelled to write to your department to implore you not to approve Origins plans to frack in the NT. Fracking has the potential to destroy country, water and our climate. I'm backing the Traditional Owners and they are opposed to any fracking taking place on their country. Let's plan for a better future by protecting our environment and helping to curb the terrible affects of climate change, one way to do this is to not approve any more fracking. So please think of the future of all Australians and stop this approval.
I live in hope
Sincerely
Paul Mason

Paul Mason
****
VIC 3698

Mason, Rick – Friday, 12 August 2022 – 17:29:05

Subject	Fracking Plans MUST STOP
From	Rick Mason
Sent	8/12/2022 5:29:05 PM

I am from SA and went to NT for the first time last year. I was stunned by the beauty of Litchfield Park and Kakadu. We must protect our environment and water. We cannot keep destroying our planet and hope it will continue to support us.
I would urge Origin to invest in renewable energy, solar, wind, wave power and thermal energy. We do not need/want more gas. Please reconsider this terrible plan and look after first Nations lands (I am not Indigenous) and respect the earth while it is not too late.

Rick Mason
****
SA 5072

Mather, Wendy – Monday, 15 August 2022 – 15:47:22

Subject	Stop Origin's fracking plans!
From	Wendy Mather
Sent	8/15/2022 3:47:22 PM

To the NT Government

We must stop big coal and gas companies from destroying our country. We are already in a dire situation with rampant climate change. The only hope we have to reverse some of the damage is to stop these large companies from damaging country. The plans they have to frack the NT are of deep concern to our First Nations people. They are of deep concern to me and my family. I give the Traditional Owners my full support as they challenge these plans. It will affect the land, our waterways and opens the door to continuous destruction by others in the coal and gas industry. There are alternatives and we must invest in them. Oppose these plans and force these companies to create the kind of sustainable energy we so desperately need and are capable of producing.

Wendy Mather
****
NSW 2043

Matheson, Meredith – Thursday, 11 August 2022 – 16:21:22

Subject	Stop origins fracking plans
From	Meredith Matheson
Sent	8/11/2022 4:21:22 PM

To the Northern Territory Department of Environment, Parks and Water Security.
Please stop Origin from fracking. Any further planned fracking should be stopped. Traditional Owners do not approve of fracking and fracking may destroy their country, water and our climate.
Stop Origin's plans for fracking.

Meredith Matheson
****
NSW 2565

Mathews, Guinevere – Thursday, 11 August 2022 – 22:43:04

Subject	Stop poisoning ground water
From	Guinevere Mathews
Sent	8/11/2022 10:43:04 PM

To whom it may concern
Having travelled the beautiful Northern Territory
several times I am very keen for the water that feeds the land, the people & the wildlife to be protected for the long term. Clean water is the essence of life and is absolutely necessary in its unadulterated state to sustain you and yours. Even if you are “in power” & have special privileges, you need to proactive in protecting water sources as your responsibility to fellow man.

Guinevere Mathews
****
QLD 4127

Matl, Aglae – Sunday, 14 August 2022 – 16:49:48

Subject	Stop new fracking plans
From	Aglae Matl
Sent	8/14/2022 4:49:48 PM

Please prevent origin from fracking even more of Australia's precious land.
Fracking is proven to be extremely damaging to the land, water and air as it leaks methane gas which speeds up climate change so much faster than CO2.
Fracking poisons the earth and water around the wells and this cannot be cleaned up.
It is irresponsible and will hurt countless people and animals if you allow more wells to be built.
You would hurt your own citizens and humanity worldwide. It is in your hands.
Please take responsibility and fight for our future.

Aglae Matl
****
QLD 4178

Matos, Mimaw – Thursday, 11 August 2022 – 16:03:55

Subject	Please do not allow origin's fracking plans
From	Mimaw Matos
Sent	8/11/2022 4:03:55 PM

Northern Territory department of parks and water security please do not approve these wells which threaten water, cultural heritage, and our climate.

Mimaw Matos
****
NSW 2134

Mattey, Janette – Sunday, 14 August 2022 – 08:34:04

Subject	Stop Origin Fracking in the NT
From	Janette Mattey
Sent	8/14/2022 8:34:04 AM

My name is Janette and I am deeply concerned by what I have heard from traditional custodians in the Northern Territory.
They do not want their Country fracked by Origin. These twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters are already damaging Country, with a risk also being posed to the water supply for remote communities.
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater. Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs. This doesn't even include scope 3 emissions. And this is just for Origin's "exploration" phase!
New gas fracking, with its massive scope 3 emissions, including methane emissions - not to mention adding to our rapidly shrinking carbon budget that we do "count" - makes absolutely no sense in a climate emergency such as the one we find ourselves deeply in now. Any Environment Minister who understands their responsibility to the environment, the countless thousands of native animals it sustains, the future generations of this country and this planet we call home - that this responsibility is so much bigger than short term profits - must say no to Origin's fracking in the NT.
Thank you.

Regards
Dr Janette Mattey

Janette Mattey
****
VIC 3677

Matthews, Heather – Sunday, 14 August 2022 – 16:44:03

Subject	Stop Origin Fracking in Australia
From	Heather Matthews
Sent	8/14/2022 4:44:03 PM

My name is Heather and I am a concerned Australian in that Origin are planning on 12 or more fracking drills in the Northern Territory. It is scientific knowledge that fracking destroys country, water and our climate, not to mention the cultural heritage of First Nations being ignored by Origin all in the name of profit and greed.
Fracking contaminates ground water and the amount of ground water required for these 12 or more drilling sites is estimated at around the amount of water to fill 172 olympic swimming pools. Once contamination leeches into the ground water it will hugely impact on First Nations survival and also effect the rest of Australia
I am requesting that the government do not allow the proposals for these fracking drills to go ahead in the Northern Territory or anywhere else in Australia.
We need to stop relying on fossil fuel exports and have more consideration for our country and those that live upon it be they human or animal.
Do not allow Origin or any other fracking organisation to drill in Australia
Regards
Heather

Heather Matthews
****
VIC 3182

Mawhirt, Ian – Sunday, 14 August 2022 – 22:21:26

Subject	The Damage Done by Fracking will not be reversible.
From	Ian Mawhirt
Sent	8/14/2022 10:21:26 PM

Two states this year passed statewide moratoriums on fracking – New York and Maryland. What's more, the entire country of Scotland has halted fracking projects nationwide, joining Ireland, the Netherlands, and France in the list of countries where this method of fossil fuel extraction is banned.

Fracking is an industrial process that breaks apart rock formations deep underground to extract fossil fuels like oil and natural gas. A major problem is that the process of getting to the fossil fuel deposits requires a massive amount of water, averaging at 3.6 million gallons of water for every well drilled. That water is mixed with chemicals that are injected into the rocks at extremely high pressures, allowing gas to flow out of the head of the drilling site.

Contaminated water from fracking has made its way into drinking water reserves across the country and the effects of these chemicals on communities and individual health is understudied , under-reported, and under-regulated.

Ian Mawhirt
****
QLD 4817

May, Charley – Sunday, 14 August 2022 – 09:02:25

Subject	Stop Origin's Fracking Plans
From	Charley May
Sent	8/14/2022 9:02:25 AM

Please do not approve plans for 12 new fracking drills. This is a short term, profiteering foolish enterprise that will cause devastating environment damage. You should be encouraging renewable energy investment in your State. You have incredible natural renewable energy resources. Stop being stupid and start wising up to embracing it. There are jobs in renewables, there's a future in it. Kindest, Charley May.

Charley May
****
VIC 3065

May, Kelly – Friday, 12 August 2022 – 16:10:47

Subject	Stop Origin's Fracking Plans
From	Kelly May
Sent	8/12/2022 4:10:47 PM

I understand Origin are seeking approval for 12 new fracking sites. I strongly oppose this because of the cultural impact and because of the environmental impact.

We recently voted at the federal election to throw out Morrison's government, as they had made themselves redundant with their lack of action on climate change. It is imperative that we don't continue to invest in old technology that negatively contributes to climate change and damages our indigenous heritage.

Today I read about opportunities for wind and hydro power off the east coast. This seems much more of a future forward opportunity for Australia, and one that will lead to jobs and preserve our environment and cultural heritage for not only us, but for tourists who visit the NT and spend huge amount to see what is on offer.

Please don't allow this redundant development to go ahead.

Kind regards,

Kelly May

Kelly May
****
NSW 2066

May, Leni – Sunday, 14 August 2022 – 15:34:16

Subject	STOP Fracking
From	Leni May
Sent	8/14/2022 3:34:16 PM

Please show the rest of the nation that you are indeed not so isolated that you are unaware of the threat to the environment with the needless Fracking.
Origin has obviously got you in a bind.
Be bold, brave and courageous and show us that you can be divergent in your thinking and go sustainably.
Please.
Leni May

Leni May
****
VIC 3444

Maybury, Chris – Saturday, 13 August 2022 – 11:09:30

Subject	No fracking. Listen to Traditional Owners
From	Chris Maybury
Sent	8/13/2022 11:09:30 AM

I am deeply concerned about Origin's plans for twelve new fracking wells at Amungee Mungee station in NT. I am particularly concerned about the impacts on First Nations people. I feel that the risk to country, water and cultural heritage is far too great to be ignored, and that for this reason in particular the proposal should not go ahead.
I also have other concerns from an environmental perspective. I believe that any production of gas from the project will have seriously adverse climate impacts, and that the proposal to fast track and sell on from the "exploratory" phase will be disastrous. The amount of dirty water produced will be on a ridiculous scale, and there is not even a coherent plan to manage this waste water.
Please, I urge you to reject these plans for the sake of our First Nations people and for the Australian and global environment.

chris Maybury
****
NSW 2204

Mayne, Andrew – Thursday, 11 August 2022 – 19:28:11

Subject	Vote of no confidence in Origin's Fracking Plans
From	Andrew Mayne
Sent	8/11/2022 7:28:11 PM

We are a country rich in every natural resource known to man, except the most precious to human existence - Water. This very water has supported the worlds oldest continuous living indigenous culture, the future viability of our NT farmers and continues to support NT's economic prosperity.

How is it possible for these resources to be placed in peril? That the future of this region be sidelined for the short term goals of a global corporation, whose shareholders care little for the risks it takes with NT water, NT indigenous culture or the NT's agricultural future? If Origin's risky gamble fails, they will know nothing of what it's like to live on a decimated landscape. They will know nothing of not being able to water their livestock. They will know nothing of the eradication of an ancient culture. They will only know of it as a failed asset, a blip in their portfolio; forgotten with in 24hours.

These Aquifers took millions of years to form. Our Indigenous culture has existed for 60 thousand years. Our farmers have toiled for over a hundred years. Once destroyed, they can never be replaced or reinstated. Do the bureaucrats of Darwin have such a stupefied indifference to the real wealth beneath their feet?

We can live without iron ore, we can live without gas. We can live without coal and we can live without Gold. However, we can not exist without water. Our indigenous peoples can not exist without their culture and the NT can not exist without either?

I ask again; how is it possible that any government would place these valuable resources in jeopardy, for such a short term and small minded goal as shareholder profit? For a potential lifespan of 15 years they would risk ending the life of a land as old as time itself.
The risk is not worth the lowly payout. Stop the Fracking of NT Land.

Andrew Mayne
****
VIC 3032

Mcadam, Margo – Friday, 12 August 2022 – 18:50:59

Subject	Origin Fracking Plans
From	Margo Mcadam
Sent	8/12/2022 6:50:59 PM

I am not going to beat around the bush. Get over the old thinking NT Government. We have enough Gas fields without adding the dangerous process of fracking.
The land that this project is intending to destroy, will bring in far more revenue now and hundreds of years into the future than the short gain of this project. The Traditional Owners actually have to have their say. The Traditional Owners are the future, not Corporations, here today, do the irreparable damage and gone tomorrow. The impact has far more consequences than we can imagine. This is a climate issue, this is a water issue and this is a love of country issue, the treasure of an ancient land which needs to stay pristine for future generations and our own survival as a human race. Money cant buy that.

Margo McAdam
****
WA 6056

Mcalister, Mandy – Sunday, 14 August 2022 – 15:27:32

Subject	stop Origin's fracking plans
From	Mandy Mcalister
Sent	8/14/2022 3:27:32 PM

We can't take any more destruction of country. Fracking has serious known risks that are not worth taking. If Australians are to remain hopeful that climate change is not out of control this means governments need to be active in protecting country any way it can.

Mandy McAlister
****
QLD 4053

Mcallister, Don – Sunday, 14 August 2022 – 15:21:19

Subject	Curtail Fracking exploration in Australia in general and Northern Territory in particular
From	Don Mcallister
Sent	8/14/2022 3:21:19 PM

To Northern Territory department of the Environment.
The international Oil a Gas extraction companies have shown that they exert tremendous pressure on Governments to utilize known sites for commercial fracking. Not only is this action now contrary to our national objectives, but it also places huge risk on maintenance of our water table, which much of the country is totally reliant on. If Origin Energy are allowed to proceed with their 12 "test sites" you can be confident that you'll be swamped with further applications. You must stop it now.

Don McAllister
****
VIC 3095

Mcbeath, Jacqueline – Thursday, 11 August 2022 – 17:58:26

Subject	Please stop fracking up the Northern Territory
From	Jacqueline Mcbeath
Sent	8/11/2022 5:58:26 PM

Traditional Owners have been valiantly defending the country against Origin's plans to open twelve new fracking drills in the Northern Territory. These wells are a devestating threat to water, to cultural heritage, and to the climate writ large

I strongly recommend that the NT Government rejects these plans immediately.

Origin's plan to frack will destroy country, water, it will also destroy native flora and fauna and ultimately be devestating to our climate.

Disgustingly, it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

I implore the ministers of the NT government to behave as world leaders in the current climate challenges we face as humans. Please give subsequent generations the chance to live on and rejoice in our beautiful country.

Reject origin's proposition and any similiar projects immediately! Please! Be the government (the good guys!) that go down in history with a positive record on our battle to stop climate change and save the human race and our beautiful world from extinction

jacqueline mcbeath
****
NSW 2077

Mcbride, Karen – Sunday, 14 August 2022 – 16:14:01

Subject	Origin to frack in NT?
From	Karen Mcbride
Sent	8/14/2022 4:14:01 PM

To the Northern Territory Department of Environment, Parks and Water Management,

My name is Karen McBride and I have been fortunate to explore the Northern Territory on many occasions. I intend to continue to do so, making sure that I am as culturally and environmentally sensitive as I can be.

With some concern I heard that Origin is planning to frack along the Carpentaria Highway, in pursuit of a fuel that most of the world is moving away from. I find it embarrassing that our country is allowing this, in the first instance.

Subsequently, I think about the effects to the people of the region if it goes ahead. The First Nations People of the area, like Nicholas Fitzpatrick, have made it clear that they do not want fracking on their land and are worried about the water table being polluted. How can this minority group remain unheard and ignored after the promises made time and again by different Governments, including the current one?

My limited understanding about fracking is that, in the Northern Territory, it can only go ahead if the recommendations from a scientific inquiry have been met. Can you assure that?

How the visual landscape changes for me, as I drive through the area, is nothing compared with the world landscape of fossil fuel mining and an environment under human-made stress.

Please reject Origin's Engineering, Mining and Petroleum plan.

Sincerely,
Karen McBride

Karen mcbride
****
SA 5107

Mccallum, Ian – Sunday, 14 August 2022 – 15:24:22

Subject	Stop Origins Fracking Plans
From	Ian Mccallum
Sent	8/14/2022 3:24:22 PM

Hello Northern Territory Department of Environment, Parks and water security.
The Origin energy company has plans to produce gas in your beautiful Northern Territory using the Fracking methods.
Fracking technology is widely criticised around the world. Why, because Fracking causes great disruption to the Environment and water use and quality.
You are the Department for Environment and water surely your research sends a shuddering message to you that allowing any Fracking for gas in The beautiful Northern Territory can only have non sustainable and negative impacts for the Environment and Water.
I hope you very carefully consider any descision for Fracking in the beautiful Northern Territory and you rest with a clear conscience.
Regards

The Patch 3792

Ian McCallum
****
VIC 3792

Mccann, Ken – Saturday, 13 August 2022 – 15:33:36

Subject	NT fracking
From	Ken Mccann
Sent	8/13/2022 3:33:36 PM

Please refrain from fracking our beautiful land

Ken McCann
****
NSW 2107

Mccarthy, Alice – Sunday, 14 August 2022 – 07:28:56

Subject	Stop Origins Fracking plans
From	Alice Mccarthy
Sent	8/14/2022 7:28:56 AM

Dear Ministers and Department of Environment,

Please reconsider approving yet more fracking “exploratory wells” in the NT.

The NT”s environment and the vibrant cultural heritage and resources is unlike any where else. It is a place that you want to holiday in and explore and spend tourist dollars in over and over. I have recently also spent time in WA and the vast regions hosting gas, mining and fracking are no longer places to belong to. This industry displaces people damages Indigenous peoples and the environment. Please consider the alternatives to Gas and fracking. The pressures internationally on energy prices are understandably creating pressure but please consider that the best time to do something about our future energy sources, renewables (!), was yesterday but the second best time is today.

We explore you as our leaders to listen to the Aboriginal and Torres Strait Islander peoples of this land, and to consider the future for all of us and how you can secure our natural heritage for all to enjoy and be at home in.

Good luck
Alice

Alice mccarthy
****
ACT 2602

Mccoll, Ruth – Monday, 15 August 2022 – 14:52:51

Subject	Origin's fracking plans
From	Ruth Mccoll
Sent	8/15/2022 2:52:51 PM

Dear Northern Territory Department of Environment, Parks and Water Security,

Please, please, do not approve Origin's plans for 12 new fracking drills. They would be diastrous for the climate, for the water supply generally and for the country and its cultural heritage. A precedent would be set for future fracking by Origin and other fracking corporations.
Present and future generations of Australians will be profoundly grateful for your rejection of of Origin's plans.

Sincerely,
Ruth McColl

Ruth McColl
****
NSW 2089

Mcconnell, Jacqueline – Saturday, 13 August 2022 – 22:30:34

Subject	Stop Origins Fracking Plans
From	Jacqueline Mcconnell
Sent	8/13/2022 10:30:34 PM

To the Northern Territory Dept of Environment, Parks and Water Supplies

I am deeply troubled that Origin is in the course of establishing fracking wells in the Carpentaria Highway area.

Not only has Origin in the short term not satisfied or pursued regulated environmental procedures, but the long term damage is grossly unacceptable creating water pollution for First National people and contributing detrimentally to climate change.

Your office has the power to stop Origin's operations in the destruction of the land and people that I thought would be your priority.

Regards

Jacqueline McConnell

****

Jacqueline McConnell
****
QLD 4556

Mccool, Lida – Saturday, 13 August 2022 – 13:40:29

Subject	Stop Origin Fracking in the NT
From	Lida Mccool
Sent	8/13/2022 1:40:29 PM

To the Northern territory Department of Environment, Parks and Water Security
I urge you to reject Origin Energy EMP and plan to frack 12 exploratory gas wells on Amangee Mungee station.
I am extremely concerned by Origin's plan, which threatens the cultural heritage of the local Traditional Owners and has met with their strong rejection. In addition, the fracking of the proposed wells will endanger the water source of the local communities and contribute to the current climate crisis, which is far too real to be ignored by the NT Government at this stage.
It is time to stop passing the buck and take full responsibility for the polluting effects of fracking and gas extraction. Recent scientific reports have yet again indicated that the existing gas resources must be left in the ground in order to keep in line with the Paris agreement of 1.5 degree warming.
The NT Government must reject Origin Energy EMP and honor the demands of the Traditional Owners and maintain a moratorium on fracking in the Territory, which is the only acceptable and responsible course of action.
Thank you for your attention.

Lida McCool
****
NSW 2257

Mccorkill, Geraldine – Sunday, 14 August 2022 – 21:41:21

Subject	Stop Origin's fracking plans,
From	Geraldine Mccorkill
Sent	8/14/2022 9:41:21 PM

Northern Territory Department of Water and Land,

Please for the security of Traditional Owners please do not open twelve new fracking drills in the NT. They will threaten water, cultural heritage and our climate

Geraldine McCorkill
****
VIC 3095

Mccosker, Robert – Friday, 12 August 2022 – 19:14:56

Subject	Stop Origin’s fracking plan!
From	Robert Mccosker
Sent	8/12/2022 7:14:56 PM

Please! Put a stop to Fracking! End this NOW!

Robert McCosker
****
WA 6537

Mccullagh, Frank – Sunday, 14 August 2022 – 12:23:17

Subject	Stop fracking
From	Frank Mccullagh
Sent	8/14/2022 12:23:17 PM

Please stop the unjustified fracking projects due to occur in the NT
This constitutes a huge danger to the environment and disregards the rights of our First Nations peoples.

Fracking is not the answer to our national energy needs.

Frank McCullagh

Frank McCullagh
****
QLD 4075

Mccullough, Jo-Anne – Sunday, 14 August 2022 – 14:53:04

Subject	No fracking in the NT
From	Jo-Anne Mccullough
Sent	8/14/2022 2:53:04 PM

To: NT Department of Environment, Parks and Water Security,

Pretty big blanket to cover all the science required to do your jobs effectively! I voted for Labor in the last election because I was led to believe that they were against fracking the NT. Primarily this is because with Australia being the driest continent water resources must be protected above all else if we are to have food resources for our growing population. I don't believe there is enough known about fracking and environmental consequences that flow from this fracking to safely say that fracking should go ahead.

I am not convinced that scientists have had enough of a say in the process and the size or the fracking to justify potentially destroying the environment for the economic benefit of the few. We who have lived in the Territory can safely say that the environment has not been put in front of decisions that are made for the benefit of very few Territorians, and the rest of us are left with the damage done by past decisions.

Make a difference for our future and put our country ahead of industry, or we will all be saying in the near future "Poor fella my country"!

Regards Jo-anne McCullough

Jo-anne McCullough
****
VIC 3079

Mcdavitt, Linda – Saturday, 13 August 2022 – 16:14:18

Subject	stop fracking plans for NT.
From	Linda Mcdavitt
Sent	8/13/2022 4:14:18 PM

We will never be able to stop our planet reaching 1.5 o C unless
gas projects are stopped. Surely you must realize by now the urgency to take action on climate change !

Linda McDavitt
****
TAS 7020

Mcdonald, Billie – Saturday, 13 August 2022 – 07:42:14

Subject	Stop Origins fracking plans
From	Billie Mcdonald
Sent	8/13/2022 7:42:14 AM

There is no need to pursue the tapping into and using fossil fuels. Get with the science, responsibility to our country and people and pursue clean green energy. Plenty of options for you with the amount of sunshine you enjoy.

Billie McDonald
****
TAS 7250

Mcdonald, Charles – Thursday, 11 August 2022 – 15:44:50

Subject	Origin Energy and Fracking
From	Charles Mcdonald
Sent	8/11/2022 3:44:50 PM

We use Origin as our energy provider at home, and we travel throughout Australia. The fracking process and Origin's plans to develop it in our country alarm us.
The risks to the water table are so well documented we can't justify staying with Origin.

Charles McDonald
****
NSW 2481

Mcdonnell, Kevn – Friday, 12 August 2022 – 09:29:14

Subject	Fracking in the NT
From	Kevn Mcdonnell
Sent	8/12/2022 9:29:14 AM

I am a retired geologist with experience in sedimentary basin formation and sedimentology. I urge you to cancel all plans to proceed with fracking on the Amungee Mungee propterty in the Northern Territory.
Fracking inevitably leads to interference with underground water systems, with chemical pollution and with destruction of habitat. It is a primitive and dangerous method of gas extraction that needs to be banned.
In any case fossil fuels are not the future!
Please give serious consideration to abandoning plans to drill more exploratory wells and put Origin's resources fully into developing sustainable green energy projects.
Thank you,

Kevn McDonnell
****
QLD 4034

Mcdonnell, Rosie – Sunday, 14 August 2022 – 10:23:15

Subject	Origin! No NT Fracking
From	Rosie Mcdonnell
Sent	8/14/2022 10:23:15 AM

As an Origin client, I'm appalled to hear your Company still have plans for FRACKING in the NT.
You should be putting all your effort & scientific knowledge into RENEWABLE ENERGY.
Are you unconvinced about the urgency of
Doing everything in your power to reduce/ eliminate Global Warming?
Alarmingly Sincere
Rosie McDonnell.

Rosie McDonnell
****
QLD 4551

Mcdowell, Christine – Friday, 12 August 2022 – 12:47:50

Subject	Stop tracking plans
From	Christine Mcdowell
Sent	8/12/2022 12:47:50 PM

My name is Christine McDowell from the Bega area in New South Wales.
There needs to be a halt to the practise of tracking in the areas of the Northern Territory.
It is going to effect the land and the people who are care takers of the land for future generations.

Christine Mcdowell
****
NSW 2550

Mcewin, Katrina – Friday, 12 August 2022 – 16:28:52

Subject	stop origins frackin plans
From	Katrina Mcewin
Sent	8/12/2022 4:28:52 PM

Please reconsider your plans to open new fracking drills in the noerthern teritory. Our water sources are too valuable, we have to stop supporting ventures that can damage our environment, add to climate change. We have to think and act differently now and I as one australian say no to fracking and yes to renewable sources of energy.

Katrina McEwin
****
QLD 4310

Mcfarland, Fiona – Sunday, 14 August 2022 – 17:01:56

Subject	Stop Origins Fracking Plans
From	Fiona Mcfarland
Sent	8/14/2022 5:01:56 PM

Don’t be reckless and support Origin in its fracking quest in NT. The risk to the environment is too great. Appalling arrogance and ignorance by NT government to allow big business to dictate and the ruination would not be redeemable.

Fiona McFarland
****
VIC 3144

Mcgee-Sippel, Lorraine – Friday, 12 August 2022 – 14:17:11

Subject	Fracking in NT
From	Lorraine Mcgee-Sippel
Sent	8/12/2022 2:17:11 PM

Sorry! I am in hospital at the moment
Recovering from major surgery - need to focus on rehab. Perhaps in a week or two

Lorraine McGee-Sippel
****
NSW 2060

Mcgilvray, Barbara – Thursday, 11 August 2022 – 13:09:39

Subject	Origin fracking in NT
From	Barbara Mcgilvray
Sent	8/11/2022 1:09:39 PM

How could the NT Government even consider giving permission for new fracking wells that will further damage our water and our climate? If you have any consideration at all for the plight of our planet and for Australia's environment - country, water and climate - please reject Origin Energy's Environment Management Plan.

Barbara McGilvray
****
NSW 2088

Mcginn, Diana – Sunday, 14 August 2022 – 14:57:12

Subject	Stop Origin from Fracking the Northern Territory
From	Diana Mcginn
Sent	8/14/2022 2:57:12 PM

To the NT government.
Please reject Origins EMP.
It is very clear to everyone that absolutely no new gas or oil industries should be embarked upon. This move by Origin is a negative step which will only benifit in the short term to itself & its shareholders. It is a most irresponsible act against the planet, its ecosystems & humanity. This is not about jobs or a sustainable future. A sustainable future must be signposted by renewables & sustainable practices. The current situation already puts the planet on a trajectory that is already irreversable in all of our lifetimes. The cavelier manner that Origin is taking does not take into account even how it will conduct its business; no complete scientific baseline assessment of the region SREBA. It is also revealed that Origin has no "plan" to manage toxic wastewater! Water - a limited & finite resource in Australia. We have littered the planet with our waste: now is not the time to add more to this shameful practice. This is not the time for more fossil fuels. Please please reject Origins EMP

Your sincerely
Diana McGinn

Diana McGinn
****
WA 6160

Mcglashan, Andrew – Monday, 15 August 2022 – 09:51:24

Subject	NT Government: stop Origin's reckless fracking plans
From	Andrew Mcglashan
Sent	8/15/2022 9:51:24 AM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Do the right thing.

Andrew McGlashan
****
VIC 3793

Mcgrath, Stephen – Thursday, 11 August 2022 – 14:52:04

Subject	Please do not approve Fracking anywhere near Culturally Significant locations
From	Stephen Mcgrath
Sent	8/11/2022 2:52:04 PM

Dear Northern Territory Government,

Please do not approve any Gas Fracking projects anywhere near a Culturally sensitive site (European or particularly a First Nations Site).

In view of Climate Change problems, these projects should not proceed.

If you have not already transitioned to renewable Energy Systems (Wind, Tidal and or Solar) please start the process now.

Thank you.

Sincerely,
Stephen Neil McGrath (Liverpool, NSW)

Stephen McGrath
****
NSW 2170

Mcguire, Molly – Thursday, 11 August 2022 – 18:57:36

Subject	Stop Origin Fracking Plans
From	Molly Mcguire
Sent	8/11/2022 6:57:36 PM

To the NT Department of Environment and Water Conservation

Hi
My name us Molly and I was appalled to read that Origin has put submission in for Fracking in the NT.
The overwhelming victory for the environment in the latest Federal election, where a government that didn't take the environment seriously, lost an election, while the Labor Party endorsed serious commitment to a new 43% target and a wonderful Teal wave of MP and increase in Green MP's. This positive action, shows that Australians everywhere endorses commitment to reduction in ALL fossil fuels.
Any fracking, would have devestating effects on Aboriginal Culture, water, environment and communities.
Please, stop fracking for this generations sake and future generations in Australia...and all Islanders who's communities have already list their homes.

Sincerely
Molly
********* 249

Molly McGuire
****
ACT 2617

Mcinerney, Paul – Saturday, 13 August 2022 – 17:26:43

Subject	Stop Origin's Fracking Plans
From	Paul Mcinerney
Sent	8/13/2022 5:26:43 PM

Please consider the communities and how they're affected by the
fracking in the Carpentaria region...the water supply used by
these communities is poisoned by fracking. The local communities relay on the land and this water for their survival. Please respect and consult with the local population. Stop the Fracking. Paul McInerney

Paul McInerney
****
NSW 2095

Mcinnes, Sheila – Saturday, 13 August 2022 – 16:20:51

Subject	Origin must not be allowed to frack in NT
From	Sheila Mcinnes
Sent	8/13/2022 4:20:51 PM

To NT Dept Environment, Parks &Water Security
I am an Origin customer of many years and very dismayed at their plans to frack for more gas in the NT.
I had been hoping that Origin would be making a change in investment policy to providing renewable energy in the near future.
Fracking should not be allowed on neumerous grounds:
1. Fracking causes disruption to the geology and water tables
2.Fracking uses an enormous amount of water
3.Gas for energy is a backwards. old technology
4.Industry will not move away from gas if we continue to expand supply
5. Infrastructure for fracking disturbs the ecology of a vast area of the environment
6. Science indicates that we must stop fossil fuel use NOW or as soon as possible
7. We are a very bad example to the world if we continue destroying our own land
I would appreciate your consideration of the above and beg you to deny Origin and further expansion of gas fracking.
Thank you for yourconsideration
Yours S McInnes, 184 Knights Hill, Robertson.

Sheila McInnes
****
NSW 2577

Mckay, Allan – Thursday, 11 August 2022 – 14:41:33

Subject	Origin's gas drilling proposals on Amungee Mungee Pastoral Station
From	Allan Mckay
Sent	8/11/2022 2:41:33 PM

I have seen the damage to water, land and communities that hydraulic fracturing processes have done in SE Queensland.

I strongly support Traditional Owners in their call for respect and protection of groundwater reserves and traditional country that has sustained their communities for thousands of generations.

Any activity that has as it's end goal an increase in gas production must not be allowed to proceed, given the fact that the International Energy Agency has clearly indicated that the world's emissions reductions target of net zero by 2050 will not be achievable if any new gas production is approved.

I urge you to reject this proposal.

Allan McKay
****
QLD 4551

Mckay, Clare – Friday, 12 August 2022 – 17:06:55

Subject	For the sake of our environment STOP Origin's fracking plans
From	Clare Mckay
Sent	8/12/2022 5:06:55 PM

Northern Territory Government Environment Department

Please don't let Origin, or any other corporation. frack traditional lands. Traditional owners don't want it to happen, it is their land and water which will be despoiled for ever.

We are in the middle of a climate crisis and all our scientists, plus our traditional owners who have knowledge of these lands stretching back millennia, keep warning us of the repercussions of mining and fracking. It is the government's job to keep us safe and not allow wealthy people and corporations to ruin our environment and planet for short-term greed.

Regards
Clare McKay
Forster NSW

Clare McKay
****
NSW 2428

Mckay, Jessie – Thursday, 11 August 2022 – 14:46:57

Subject	Fracking in the Northern Territory
From	Jessie Mckay
Sent	8/11/2022 2:46:57 PM

It would appear to me that Origin has absolutely no respect for the Traditional Owners or this beautiful country. It is my belief that these companies, both coal and oil, are trying to make as much profit as possible before we switch to renewables. How will history judge them and any Government that accepts their proposal.

Jessie McKay
****
TAS 7250

Mckeown, Caroline – Saturday, 13 August 2022 – 22:17:30

Subject	Please stop the fracking
From	Caroline Mckeown
Sent	8/13/2022 10:17:30 PM

I can not believe even for one moment that a NT government would consider endangering country by destroying its most precise resource its water ways.
Poison the water, poison the land, poison the people.
Research in other countries shows fracking is a short term gain that only destroys in the long term.
I hope you listen to the people you are suppose to be governing and can sleep with your conscience at night.

Caroline mckeown
****
NSW 2046

Mckern, Sall – Saturday, 13 August 2022 – 14:57:58

Subject	Stop origins fracking in NT
From	Sall Mckern
Sent	8/13/2022 2:57:58 PM

Please stop destroying land and fragile Ecco systems

Sall Mckern
****
NSW 2533

Mckernan, Helen – Sunday, 14 August 2022 – 15:13:42

Subject	Stop fracking from Origin
From	Helen Mckernan
Sent	8/14/2022 3:13:42 PM

All of Australia is followng if the NT takes a climate stand on new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate. The greatest insult s to ignore the valid fear felt by Traditional Owners who have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

The NT is the future for Australia. Unspoilt by comparison to the States and with huge potential for tourism. Protect the special environment and don’t be seduced by Origin

Helen McKernan
****
VIC 3666

Mclachlan, Robyn – Sunday, 14 August 2022 – 15:42:41

Subject	Please Origen - no fracking
From	Robyn Mclachlan
Sent	8/14/2022 3:42:41 PM

I am a concerned Australian citizen, passionate about climate change and not in favour of fracking. My key concerns, apart from increasing greenhouse gases, is that from a scientific point of view, these underground environments are little understood - we don't really know what ecosystems occupy these spaces, what animals, plants, insects and microbes are there, and we don't have a good knowledge of the expansive groundwater systems there and how they interact. Fracking will destroy all of this and we won't even know what has been destroyed. Furthermore, we do not need this gas as we have ample supply for our needs if the market was properly managed.

Robyn McLachlan
****
VIC 3070

Mclean, Stuart – Friday, 12 August 2022 – 14:29:38

Subject	Please stop Origin's fracking
From	Stuart Mclean
Sent	8/12/2022 2:29:38 PM

To the NT Department of Environment. Parks and Water Security.

I urge you to stop the planned fracking, as it is not required for the NT economy and will bring untold harm to the water and general environment affecting people living nearby for generations to come and effectively, forever.

Yours sincerely,

Stuart McLean
568 Nelson Rd
Mt Nelson, Tas 7007

Stuart McLean
****
TAS 7007

Mcleod, Hilda – Friday, 12 August 2022 – 06:54:56

Subject	Stop fracking by origin
From	Hilda Mcleod
Sent	8/12/2022 6:54:56 AM

Guterrras has warned that ANY new fossil fuel projects will jeopardise the future of the planet
Fracking IS the first step
Please act responsibly

Hilda McLeod
****
VIC 3936

Mcleod, Jasmin – Saturday, 13 August 2022 – 15:09:50

Subject	Stop Origins Fracking Plan
From	Jasmin Mcleod
Sent	8/13/2022 3:09:50 PM

You can not approve this fracking plan and destroy Australia. Think about the environment our animals and our further safety and survival. This project is not approved by the public. Please stop. Stop

Jasmin McLeod
****
VIC 3015

Mcleod, Rosalind – Saturday, 13 August 2022 – 17:31:50

Subject	Stop Origin's Fracking Plans
From	Rosalind Mcleod
Sent	8/13/2022 5:31:50 PM

To the Northern Territory Department of Environment, Parks and Water Security
My name is Rosalind McLeod, I am a former teacher and a grandmother of four fine young people. I am making this submission to object to fracking in the Northern Territory. I have travelled there and regard the land as relatively untouched by destructive practices such as fracking. I hope you will reject the proposed fracking plans which, if approved, will undoubtedly destroy country, water and climate. I would love my grandchildren and all other young people to inherit a healthy land. This is vital to Traditional Owners but also to all of us, especially future generations who will be thankful for wise decision making now, instead of regrettable mistakes.
I ask the Department to reject Origin's EMP.

Rosalind McLeod
****
NSW 2519

Mcmanus, Damon – Saturday, 13 August 2022 – 09:49:52

Subject	Fracking the Beetaloo Basin
From	Damon Mcmanus
Sent	8/13/2022 9:49:52 AM

To whom it may concern,

I am a concerned Australian citizen from Queensland, Australia.

Today in the Newspaper I read about how the Gas Company, Tamboran Resources, that received government grants for gas exploration of the Beetaloo Basin, said that Australia should abandon its international commitment to keeping warming “well below 2C above pre-industrial levels”.

Australia is made up of 25 million people, not just a small group of rich fossil fuel companies who think they can dictate the International Climate Policy of the Australian Government.

The plans put forth by Origin and other companies to frack the Beetaloo Basin and sell the gas based on exploratory licenses is another demonstration of how disingenuous and untrustworthy this industry is. They have put no plans forward about how they will address climate impacts and are instead lobbying for the relaxing of our climate commitments.

We are still to see them implement all of the recommendations of the Pepper Inquiry which was the conditions with which the moratorium on fracking was granted in the Northern Territory.

I am asking the department to reject Origin's EMP.

Yours sincerely,

Damon McManus

Damon McManus
****
QLD 4032

Mcmillan, Dene – Saturday, 13 August 2022 – 13:30:44

Subject	Stop Origin's fracking
From	Dene Mcmillan
Sent	8/13/2022 1:30:44 PM

The Northern Territory Government MUST NOT approve fracking. Don't they realise the harm it does to the environment. This is so outrageous and upsetting. Please put the environment first!

Dene McMillan
****
NSW 2431

Mcmillan, Philip – Sunday, 14 August 2022 – 15:11:05

Subject	Stop Origins fracking plans
From	Philip Mcmillan
Sent	8/14/2022 3:11:05 PM

Northern Territory Government
Please refrain from fracking in the NT.
Our country is suffering enough from the excesses of powerful companies damaging the unique and fragile environment we are privileged to live in. I ask for the sake of generations to come this activity be ceased permanently.
Mary-Anne McMillan (Mrs)

Philip McMillan
****
SA 5031

Mcmurdie, Lyn – Friday, 12 August 2022 – 18:14:31

Subject	Stop Origin's fracking plans
From	Lyn Mcmurdie
Sent	8/12/2022 6:14:31 PM

Northern Territory Department of Environment,Parks and Water Security.

Dear Sir/Madam,

I recently read about Origin's application to explore for gas by fracking 12 wells at Amungee Mudgee, near Daly Waters.

I'm strongly opposed to this project because of the damage to the environment this will cause. The plan to take 430 million litres of water and produce a huge amount of waste water, which needs to be sent interstate, is highly irresponsible.

The indigenous people of the area are opposed to this type of exploration because of the damage to their cultural heritage, their water and that it would exacerbate the critical issue of climate change.

It would be much better to see Origin establish renewable energy projects such as a solar farm with battery storage, and/or wind farming. This area's climate would be ideal for this.

If this EMP were granted, it would also establish a precedent for other similar projects.

Australia finally has a federal government which is starting to take responsibility for our carbon emissions.
I oppose the granting of Origin's Environmental management plan. Australia needs renewable energy projects, which will create more jobs than if
we continue to extract fossil fuels and exacerbate global warming.

Yours Sincerely,
Lyn McMurdie

Lyn Mcmurdie
****
VIC 3446

Mcmurray, Rhondda – Sunday, 14 August 2022 – 19:38:50

Subject	Please reconsider Origin's fracking plans
From	Rhondda Mcmurray
Sent	8/14/2022 7:38:50 PM

I have until recently been an Origin customer but had been increasingly unhappy to be connected to a company that is associated with harm to the environment and shown itself to be untrustworthy in its claims and disregarding of indigenous culture and history. It was an enormous relief to sever my ties with Origin. I urge the Northern Territory government to consider how irreparable damage to water supplies and the environment are. Once lost, money can't buy these back. Please listen to the Traditional Owners whose knowledge and wisdom is built on thousands of years experience rather than on corporate short term gains or imagined electoral advantage.

Rhondda McMurray
****
NSW 2037

Mcnab, Lynette – Sunday, 14 August 2022 – 17:18:46

Subject	ORIGINS DESTRUCTIVE FRACKING PLANS NEED TO BE STOPPED
From	Lynette Mcnab
Sent	8/14/2022 5:18:46 PM

Driving along the Carpentaria Highway, straight through the land Origin wants to destroy with fracking gas fields and which remote Aboriginal communities use all the time right on the side of the road in plain sight you can see some of Origin's fracking infrastructure already leaving scars all over Country.

We are seeing the impacts of gas expansion with our own eyes. Traditional Owners are seeing it too.
"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

The damage Origin could do would be exponential if this plan is approved. We have to do everything in our power to stop it. Are you with us? There's so much to be concerned about Origin's plans, it's hard to know where to start.

The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to.
So it's simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Lynette McNab
****
NSW 2753

Mcnamara, Mary – Thursday, 11 August 2022 – 15:18:47

Subject	Stop Origins planned fracking well developments
From	Mary Mcnamara
Sent	8/11/2022 3:18:47 PM

I understand that origin plans to develop more freaking Wells in the Northern Territory and elsewhere, I am very against this and urged the government not to approve these applications
Mary McNamara

Mary McNamara
****
VIC 3844

Mcphail, Lyn – Sunday, 14 August 2022 – 21:38:51

Subject	STOP DESTRUCTIVE FRACKING OF THE WORLD
From	Lyn Mcphail
Sent	8/14/2022 9:38:51 PM

Any Fracking done in our home planet will reshape the guardian layers of the earth. Underground layers protect the flow & storeage of underground water/rivers. Fracking injects destructive chemicals, cracks/fractures these layers, redirecting & disbursing water. This destroys our land as we know it. Does anyone understand or care. Man does not know enough to think he can safely employ this destructive force. Yes immediate dollar return could be huge, but future repair to our environment is unknown if impossible. Fossil fuels are swiftly finding an early "use-by-date". Do not allow Fracking.

Lyn mcphail
****
WA 6209

Mcphee, Mary – Friday, 12 August 2022 – 15:11:29

Subject	Stop Origins Fracking Plane.
From	Mary Mcphee
Sent	8/12/2022 3:11:29 PM

NT Department of Water & Planning.

I write to protest about Origin's plans to open 12 new fracking drills in the NT.

These wells show no respect for Aboriginal culture and the effort oou Indigenous brothers and sisters have exerted in protecting this land for thousands of years. It seems that your government forcuses on 'profits' at all costs thus ignoring the ethics and principles of this environmental issue.

There also needs to be consideration given to the likelihood of the likelihood of the water supply being polluted by these wells and of course the impact of climate change.

How can your government so recklessly allow origin to open 12 new fracking drills without considering the huge impact this could have on climate. If you have been exposed to fire, floods and land degradation as we have in the south west of NSW then your decisions may be different. Surely too our Indigenous people have had their rights trampled on for too long; acknowledge this and don't perpetuate it further.

Stop these fracking plans and set a positive example for the rest of Australia.

Mary McPhee
****
NSW 2705

Mcpherson, John – Sunday, 14 August 2022 – 14:17:52

Subject	Stop Origin's reckless fracking plans
From	John Mcpherson
Sent	8/14/2022 2:17:52 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

John McPherson
****
QLD 4034

Mcsharry, Sean – Saturday, 13 August 2022 – 16:05:31

Subject	Origin's Fracking Plans NT
From	Sean Mcsharry
Sent	8/13/2022 4:05:31 PM

NT Government

It is hard for older folk like\ me to match the rhetoric of well funded corporations, but I have to express repugnance for anything smelling of the previous Federal Government's Gas Led Recovery. This Recovery was already obsolete as the economy recovered fine without all that gas to be produced. But the damage from fracking, added to the fugitive emissions and the downstream or level 3 emissions are all contrary to what is needed now, and urgently. All this putative production by the way is not needed for domestic consumption as we already produce way more gas than domestic consumption.

I read in addition, that Origin plans to produce gas directly from these 12 exploratory wells, which smalls of panic to squeeze revenue out of the wells before newer and better oversight may come into place.

Your NT Government removed its ban on fracking under pressure from Morrison's government. That corrupt government has been abolished by the consent of the Australian people in a resounding way. Why not just re-introduce the ban? If that would put off future oil and gass investment, so much the better, as we no longer need it. Renewables are cheaper and will assist the lands of our First Peoples to be saved from the ravages of these mindless carbon producers.

Respectfully.

S McSharry. Mosman NSW

Sean McSharry
****
NSW 2088

Mcveigh, Robin – Sunday, 14 August 2022 – 12:48:43

Subject	Prevent fracking by Origin
From	Robin Mcveigh
Sent	8/14/2022 12:48:43 PM

Submission to: Department of Environment, Parks and Water Security

I am a retired Primary School Teacher and still tutor 3 students per week. Taking wildlife photographs and being out in the bush are passions of my husband and I. We have not yet visited the Northern Territory together but it is high on my list of places to see.

I do not want the NT Government to keep supporting fracking or other gas extraction methods.

The resulting emissions contribute to Climate Change - the extreme fires and floods occurring in Australia over the past 2 years are because of Climate Change.

It is morally wrong to ignore the wishes of Traditional Indigenous Landowners and allow their land to be desecrated by fracking.

There will be contamination of water, which will affect both Indigenous and non-Indigenous Landowners, other residents and the flora + fauna in the region.

Massive amounts of water are required for fracking, which will have negative effects on the locations from which it is drawn. It is estimated that there will be 90 million litres of wastewater to be disposed of. The plan is to truck this wastewater interstate - so the pollution will be shared... how generous, I say ironically.

Large corporations are notorious for not cleaning up the environmental damage that they create, despite their promises to do so, while applying for government permission for projects.

I realise that it is a dilemma for your Government to provide power and it seems like easy solution to tap into the gas in the territory at this time before such extraction is hopefully banned in future.

It will make it so much harder for Australia to meet the targets for emissions, if this or similar projects proceed. It is only due to the good sense of most states and territories that, despite the inaction of the Liberal Coalition Government, there has been progress in emissions reductions through renewable energy production.

It is time to invest in renewable energy sources now and not in non-renewables that cause pollution and destruction of land.

Please live up to the name of this Department and protect the environment, parks and water from further damage by Origin. Please also get them to clean up the mess they have already made by them starting 'exploration'.

Robin McVeigh
****
ACT 2602

Mcveity, Satya – Saturday, 13 August 2022 – 14:10:10

Subject	No new fracking wells in NT
From	Satya Mcveity
Sent	8/13/2022 2:10:10 PM

Dear Sir/Madam,
I'm writing to you to make you aware that I oppose the proposal by Origin to apply to your Government to approve more fracking wells in Northern territory.
This proposal is opposed by Traditional owners of the land and for that reason alone should be refused. Traditional owners have knowledge of the land that we "newcomers" comparatively do not. Things like looking after country and securing water supplies and keeping them clean and pure in this dry desert land. This is just a money maker for Origin. They have no regard for what might become of the land, air and water becoming toxic as a result of CSG mining. It has been proven in many other parts of the world that CSG mining isn't a longterm and viable way to power our homes and industry. With all the sunshine in the Northern Territory
it is a wonder why there isn't more thought going into solar power. Renewable energy is the way of the future and ensures a future for us all. It is also a project that could involve Traditional owners of the land and employ them.
I trust you will take these considerations into account in your decision to allow further fracking in this great land.

Satya McVeity
****
NSW 2480

Mcvicar, David – Saturday, 13 August 2022 – 20:12:56

Subject	Stop Origin fracking
From	David Mcvicar
Sent	8/13/2022 8:12:56 PM

Please stop. Save Australia for our Grand Children.

David McVicar
****
VIC 3673

MD, Monika – Monday, 15 August 2022 – 14:08:07

Subject	Submission to the Origin Energy B2 Pty Ltd environmental management plan (EMP) for Beetaloo sub-basin (Mon15Aug2022)
From	Monika MD
Sent	8/15/2022 2:08:07 PM

Dear Hon Environment Minister Lauren Moss, and Department of Environment, Parks and Water Security

Petroleum Operations Unit

My name is Monika Doepgen and I live in Cue, Western Australia.

I am writing to you because I am very concerned with Origin's Amungee NW Delineation EMP, which to me read more like a Programme of Work (PoW) than an EMP.

Obviously, there are Billions of Dollars on stake to be made by Origin who has already a multibillion revenue and therefore it has compiled a lengthy, technical, compelling, biased document loaded with figures, tables, and numerous appendices to make it appear as this project would pose no harm for the people, the environment, and climate.

This exploration project alone would be using up a huge volume of water, approximately 430 million litres, equivalent to 172 Olympic swimming pools of water, which they want to take from the Gum Ridge Formation. I cannot even imagine such quantities, surely, they wouldn't go without consequences for the natural water environment/ground water level.

Then there is the chemically laden wastewater, approximately 90 million litres, which would be trucked interstate. But there are no plans to manage wastewater that would contaminate the water supplies on which the Traditional Owners of this land rely on.

Origin's proposal does not adequately consider the risk to threatened species. The proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat.

Newly discovered endemic stygofauna (small invertebrates like shrimps which live in groundwater) are also present in the project area. The EMP does not include any measures to monitor for or protect these underground species.

Origin Energy want to drill and frack throughout the year, with the first two wells scheduled to be drilled over the ********* wet season. They are trying to ignore the more severe environmental risks that occur in the wet season and the risks of flooding and waste water overflow and contamination.

In their EMP Origin makes it sound as it's looking after the Climate by calling the selling of the gas, 'beneficial use of appraisal gas' showing a reduction in Greenhouse Gas Emissions over a period of 24 months, which btw is over 5 times longer as needed for testing. By doing this Origin is also bending the rules to sell the gas from exploration activities without having the proper production license. Once Origin moves from the exploration phase to the production phase the scale of the damage is exponential.

Under Origins proposal there would be 535,651 tonnes of direct, scope 1 greenhouse gas emissions released, over the duration of 135 days. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs (Reference: Climate Action Plan *********, Alice Springs Town Council) This doesn't even include scope 3 emissions.

The Traditional Owners oppose fracking on their land because of the risks to water, country and cultural heritage.

12 fracking wells may sound not very much, but any fracking is fracturing the land and therefore is causing irreparable damage to the Country.

If this project is allowed to go ahead it would be like opening the Pandora box, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking companies, already lining up, to do exactly the same, all while undermining the integrity of our regulatory system.

Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented. Origin hasn't so far implemented them all in their EMP.

Every day we see new catastrophic consequences of the human induced Climate Change due to rapid global warming since industrialisation began. The production/fracking for shale gas is already emitting high levels of GHG emissions during the production and Exploration stages and therefore any new Exploration activities such as fracking are a risk for the Climate and need to be stopped.

You as the Environment Minister and the Department of Environment, Parks and Water Security

Petroleum Operations Unit are entrusted to make decisions that protect the precious environment we live in; therefore, I respectfully ask that you reject Origins EMP, and refer this EMP to the Environment Protection Agency under the Environment Protection act for full and thorough Environmental assessment given these significant impacts it will have on climate, water and biodiversity.

I hope you will take my concerns into account.

Kind Regards,
Monika Doepgen, Cue, WA 6640

Measday, Brian – Thursday, 11 August 2022 – 14:58:20

Subject	No public money for gas and fracking in the budbet.
From	Brian Measday
Sent	8/11/2022 2:58:20 PM

To The Northern Territory Environmenatal Dept.

Brian Measday
****
SA 5064

Medway, Allan – Thursday, 11 August 2022 – 16:21:23

Subject	Fracking is f….d
From	Allan Medway
Sent	8/11/2022 4:21:23 PM

NT Dept of Environment
Water Security
We don’t need gas from fracking especially at the expense of the wishes of Owners. Do the right thing!!!

Allan Medway
****
NSW 2021

Meggs, Helen – Saturday, 13 August 2022 – 18:20:46

Subject	Please STOP Origin's Fracking Plans
From	Helen Meggs
Sent	8/13/2022 6:20:46 PM

To the Northern Territory Government,

Please listen to the Traditional Owners, and the rest of us. We do not want Origin or any other company destroying our country for their profits at our expense.

Gas fracking in Australia does nothing for Australians, destroys Country, and makes a massive contribution to climate damage whilst lining the pockets of a few.

Your are elected to represent the best interests of all the people, and to do that you must protect the places they live from all potential harms. Gas fracking is a direct contravention to this mandate.

Yours Sincerely,
Helen Meggs

Helen Meggs
****
VIC 3065

Mendis, Geetha – Sunday, 14 August 2022 – 10:51:29

Subject	Stop Origins Fracking Plans
From	Geetha Mendis
Sent	8/14/2022 10:51:29 AM

To the NT Department ofEnvironment Parks & Water Security.
I am a concerned citizen from WA alarmed to the plans by Origin which will have a devastating impact on the environment. The 12 new fracking wells are being fast tracked without the right licence but plans to sell gas from this proposal.
Climate impacts have Not been accounted for nor have they been addressed.The project will consume a huge amount of water from Gum Ridge Formation and generate large volume of toxic waste water. The green house gas emissions (not including scope 3 emissions) are massive. Traditional owners are opposed to the project due to threat to water, country & culture.

If the NT government approved Origin's EMP it would be setting an alarming precedent for other fracking corporations like Empire Energy and others to follow the same destructive precedent.

It is unconscionable to approve this in the light of the climate impacts we are experience globally and recent clear scientific advise to stop new fossil fuel projects completely.

I hope that reason and concern for the environment and well being of the community will be put before profit.
Respectfully,
Geetha Mendis (WA)

Geetha Mendis
****
WA 6012

Mer-Adair, Olivier – Saturday, 13 August 2022 – 12:43:59

Subject	Please avoid fracking entirely.
From	Olivier La Mer-Adair
Sent	8/13/2022 12:43:59 PM

The NT doesn't need fracking, so please stop wasting our country for short term profits. We have many better ways of making money, and of sourcing thermal and electrical energy, like solar and wind.
Lets improve the capacity and resilience of our grids with more and better energy management and storage options. Virtual Power Plants, Vehicle 2 Grid, and grid scale battery storage systems with advanced inverter technology all seem hopeful. Energy storage systems like dams, molten salt, Lithium ion, hot water, compressed air, flywheel, Hydrogen, and Vanadium redox for managing the shortfalls between daily and annual demand and supply amounts. Demand management appears achievable and necessary, to avoid both the blackouts and the catastrophic climate change.
Progressive Pricing (where consumers pay lower unit tariffs for initial units, and higher unit tariffs for higher consumption units) is both fairer (since it allows cheaper bills), and more sustainable (since it encourages lower consumption per person).
https://www.ctc-n.org/sites/www.ctc-n.org/files/resources/progressive_pricing.pdf
Rebates (or 'Negawatts') are already offered as incentives by some VPPs to reduce customer power consumption during peaking periods, as a voluntary demand management.
Advanced Metering Infrastructure can enable smart meters in homes, which automatically adjust power consumption to price signals, without stressing sir and madam.
Please avoid fracking entirely.
Thank you for your time,
Olivier La Mer-Adair

Olivier La Mer-Adair
****
NSW 2450

Mercer, Raven – Sunday, 14 August 2022 – 06:39:27

Subject	Stop origin fracking
From	Raven Mercer
Sent	8/14/2022 6:39:27 AM

To whom it may concern
I am disturbed by origin pushing ahead illegally with their plans to start to start fracking in the NT.
No only is fracking VERY ineffective in terms of energy production verses cost the irreparable damage done to the environment, which is already struggling, and not to mention the damage done to traditional sacred sites is not only deplorable but also retraumatising for the indigenous sovereigns of this land.
Indigenous sovereigns still own this land and their say should be final not over ridden by a company who has no regard for land, water or the other multitude of impacts being made to declining wildlife and plants.
Please prevent this travesty from occurring.

Regards Raven

Raven Mercer
****
NSW 2471

Mercier, George – Sunday, 14 August 2022 – 22:47:34

Subject	stop Origins fracking and destruction to our environment
From	George Mercier
Sent	8/14/2022 10:47:34 PM

we australians don't want any more fossil fuel extraction and burning of. what part of the climate emergency and the clean energy revolution do you not understand? this is our country and environment and democracy and we say no more. now stop the fracking and stop wrecking the land of the first nation people.

george mercier
****
NSW 2036

Merckel, Michael – Saturday, 13 August 2022 – 15:14:04

Subject	stop origin's destructive fracking
From	Michael Merckel
Sent	8/13/2022 3:14:04 PM

We need to start transitioning to sustainable industries and energy. This is a climate emergency.

Michael Merckel
****
VIC 3184

Merkel-Stol, Jan – Thursday, 11 August 2022 – 14:16:42

Subject	ORIGIN's new plans for fracking in the Northern Territory
From	Jan Merkel-Stol
Sent	8/11/2022 2:16:42 PM

I am very concerned at the new plans for fracking by Origin in the Northern Territory are likely to happen soon.
PLEASE stop this - it is unnecessary and causes brutal destruction of land and water. The profits go to companies who are already profitable and destroy the part of our country that they mine in.
I live in the city (Melbourne) now but have travelled throughout Australia over many years and learned to love and respect our beautiful country.
Fracking is brutal and destructive and is not even needed any more other than an unnecessary lining of wealthy companies' (and their owners) already wealthy coffers!
Jan Merkel-Stol
8 Village Drive
Reservoir 3073

Jan Merkel-Stol
****
VIC 3072

Merrett, Lisa – Saturday, 13 August 2022 – 15:24:10

Subject	Stop Origin's Fracking Plans
From	Lisa Merrett
Sent	8/13/2022 3:24:10 PM

If the government is serious about listening to youth and First Nation Voices, I beg you to listen now. This project is such a blight on caring for country and the future and I sincerely hope, for the sake of my children and all the children growing up with the climate crisis that Origin's Fracking projects are permanently halted.

Lisa Merrett
****
VIC 3810

Merson, Daryl – Friday, 12 August 2022 – 22:01:16

Subject	Stop Origin's fracking plans
From	Daryl Merson
Sent	8/12/2022 10:01:16 PM

To the Northern Territory Department of Environment, Parks & Water Security,

Could you please do all you can to stop more fracking. We need to start using civilized methods of sustainable living rather than destroying our environment for short term gains.

By now it should be obvious that Climate Change is real to everyone and we need to do what is necessary for the survival of the human race (which includes you and even more importantly your descendants) Sincerely Daryl Merson

Daryl Merson
****
VIC 3858

Mesurier, Richard – Sunday, 14 August 2022 – 14:50:21

Subject	Stop all fracking in NT
From	Richard Le Mesurier
Sent	8/14/2022 2:50:21 PM

To NT Dept of Environment, Parks and Water Security:
The traditional First Nation custodians of the land oppose the plans by Origin to run 12 fracking sites in NT. Their opinions should not be ignored for short term financial benefits. Concerns for a lack of regulated safety and environmental factors are real. Fossil fuels and their associated emissions are now crucial considerations to minimise harmful climate change. The population as a whole and now the Federal government reject depending of fossil fuels. State and Territory government will come under increasing scrutiny and be held accountable for their energy policies - SO STOP FRACKING please.

Richard Le Mesurier

Richard Le Mesurier
****
VIC 3070

Mewburn, Mel – Saturday, 13 August 2022 – 16:04:53

Subject	Stop fracking!
From	Mel Mewburn
Sent	8/13/2022 4:04:53 PM

We have finite resources available, why waste something as precious as water on such an environmental disaster.

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage. I am not a Traditional Owner, but I also do not want fracking on any part of this country.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

I am asking the Department to reject Origin's EMP.

Mel Mewburn
****
NSW 2016

Meyer, Iwan – Friday, 12 August 2022 – 14:44:31

Subject	Stop Fracking
From	Iwan Ilya Meyer
Sent	8/12/2022 2:44:31 PM

Stop unnecessary fracking & preserve the beauty of the old, beautiful country. There is NO NEED TO DESTRUCT NATURE, PURE GREED NOTHING ELSE.

Iwan Ilya Meyer
****
VIC 3172

Meyering, Frederic – Saturday, 13 August 2022 – 14:57:49

Subject	Stop Origin gas plans to frack in the NT
From	Frederic Meyering
Sent	8/13/2022 2:57:49 PM

I a Territory born sovereign man, I am dead against fracking and the corporations that think they can lord it over sovereign owner. The first nation people never sold the land to these corporate thugs but bullied and bribed the greedy and weak politicians and then claim they have authority.
They want to fast track disastrous gas production without the right licenses. They claim to be doing explority drilling but are going to sell the gas.
They haven't accounted for or addressed the full climate impacts. How could they when nobody in the government has.
They want huge amounts of precious water, water that we the peoples of this land need for survival and if/when they pollute the aquafirs and made their money, how will the people survive.
They haven't implemented all the recommendations from the crucial Pepper Inquiry that all have to met before coming to the sovereign people of the land and ask permission to work their land and take FULL responsibility. But right now, Origin wants to go ahead with fracking without all recommendations implemented so the answer will be no.
Frederic Hugo Meyering

Frederic Meyering
****
NT 0810

Michaelson, Glenise – Saturday, 13 August 2022 – 12:09:46

Subject	Fracking
From	Glenise Michaelson
Sent	8/13/2022 12:09:46 PM

Do not allow anymore fracking it is causing so much damage to earth ..

Glenise Michaelson
****
VIC 3094

Michener, Hayley – Monday, 15 August 2022 – 21:10:51

Subject	Submission on Origin Amungee NW EMP
From	Hayley Michener
Sent	8/15/2022 9:10:51 PM

Good evening,

Please find attached a submission on the Origin Amungee NW Delineation Program on behalf of the Arid Lands Environment Centre.

Regards,

Hayley Michener

--

Hayley Michener

Policy and Advocacy Manager

Arid Lands Environment Centre

Phone: *********

Email ********** <mailto:**********>

Attached Documents

Arid Lands Environment Centre

15th August 2022

Department of Environment, Parks and Water Security
Petroleum Operations Unit
PO Box 3675
Darwin NT 0801

By email: origin.ep98&76@nt.gov.au

Submission: Origin Energy Amungee NW Delineation program Environment Management Plan (ORI11-1) NT-2050-15-MP-0088.

To Whom it May Concern,

The Arid Lands Environment Centre (ALEC) is Central Australia's peak environmental organisation, defending the desert country for over 40 years. We campaign, advocate and support local people to take action for the protection of arid lands and people. ALEC actively contributes to the development of energy and resources policy through regulatory reform, written submissions, community education and advocacy within the community.

ALEC welcomes the opportunity to provide a submission Origin Energy Amungee NW Delineation program Environment Management Plan (ORI11-1).

ALEC submits that the Origin EMP must be rejected due to:

- The scale of the project
- Proposal to sell gas under an exploration licence
- Inadequate consideration for biodiversity – the project has not undertaken the required threatened species surveys and does not account for cumulative impacts
- Enormity of Greenhouse Gas emissions from the project and failure to adequately account for the cumulative impact or offsetting of these emissions
- Assessment of the impacts of water extraction

ALEC's arguments are below:

Production under an exploration licence

Within the EMP is a proposal to keep the 12 wells in this EMP open for 730 days and to transport and sell gas (under an exploration licence) to Macarthur River Mine. Concurrent to the proposed sale of gas is Origin's awareness that this is not allowable. Origin state: "*Currently legislation does not allow for the beneficial use of gas during exploration (such as 3rd party sale)*.

ALEC maintains that proposed sale of gas amounts to production by stealth and contravenes the NT Government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper Inquiry recommendations prior to the production phase of fracked gas.

ALEC rejects the sale of gas under an exploration licence.

Greenhouse gas emissions

Origin's EMP notes the project will generate 535,651tCO2e (tonnes of Carbon Dioxide equivalent) of greenhouse gas (GHG) emissions under the proposed exploration licence – an enormous and out of

proportion level of emissions that are well beyond what should reasonably be expected under exploration. This would put Origin well and truly over the Large Emitter's threshold. Origin plan to keep these wells open more than 5 times the usual period for appraisal, thus increasing the emissions substantially. The ALARP principle simply cannot be met under a

The scale of the proposed Greenhouse Gas emissions from the Origin project needs to be considered in the context of cumulative and intensify greenhouse gas emissions from the Beetaloo basin and how these emissions will be offset.

In Recommendation 9.8 of the NT Government's Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, the Fracking Inquiry urged: That the NT and Australian governments seek to ensure that there is no net increase in the life cycle GHG emissions emitted in Australia from any onshore shale gas produced in the NT. Origin propose to retrospectively offset emissions by a small percentage (3.7% of 2023 emissions), yet it is unclear how the remaining emissions will be offset by either Origin or the Government.

The GHG Cumulative Impacts section includes emissions from FY23 onwards, excluding significant emissions from existing and ongoing projects in the Beetaloo region. ALEC rejects the 1% of Australia's total emissions coming from Origin gas production as being reasonable or acceptable. ALEC also rejects the notion that 'natural gas is likely to have 50% less emissions than coal" particularly considering the NT's current electricity make up excludes coal.

Origin has proposed to use CCS to reduce emissions in the future. However, ALEC is not aware of any successful CCS technology that is readily deployable and rejects this futuristic technology as a means of addressing greenhouse gas emissions within this EMP.

Threatened species

Threatened species were not adequately assessed in the Origin EMP.

The EMP does not describe the survey methodologies for its overall flora and fauna surveys, however, it states that 76 species were found. It is unclear from the EMP if any of these are threatened species, and the species list is not provided within the report.

Environment Management Plan Content Guideline for Onshore Petroleum Regulated Activities (2021) stipulates that "appropriate and justified methods (e.g. targeted surveys)" are required to verify the presence or absence of flora and fauna values where possible. Given that desktop searches completed as part of the EMP resulted in 15 fauna species listed as threatened under the EPBC Act and/or the TPWC Act, it is warranted that the correct survey methodologies (using the NTEPA's Environmental Assessment Guidelines – Terrestrial Biodiversity and EPBC Act guidelines) be employed.

An example of the inadequate surveying is for the Crested Shrike-tit (*Falcunculus frontatus whitei*). The Origin EMP states that survey methodology for the Crested Shrike-tits was 5 minutes of call back followed by "approximately" 10 minutes of observations with binoculars. The number of days this truncated surveying was undertaken was not detailed in the EMP. Nor was the seasonality and timing of the survey effort – both important factors in surveying for threatened species. Surveying

guidelines (provided in part below) are found in the Survey Guidelines for Australia's threatened birds and stipulates that 8 hours of surveying 4 days in areas <50m is required. It is worth noting that the Protected matters for the Beetaloo GBA region Assessment lists the likelihood of this species being impacted by gas development in Beetaloo GBA region as **High**.

Survey effort guide

Methods	Hours	Days
Broadcast surveys*	4	3
Area searches or line transects**	8	4

* Effort indicated for September to March only.

** In areas less than 50 ha.

Figure 1: Survey effort guide for the Crested Shrike-tit from the Survey guidelines for Australia's threatened birds (Commonwealth of Australia 2010).

The EMP lists a number of other species as potentially present on the well sites but has not provided details of how these were surveyed, if at all. An example is the Plains Death Adder listed as potentially present on all well sites, but no attempt has been made to survey for it, nor any impact mitigation measures put forward.

Furthermore, the cumulative impact on flora and fauna has not been described or accounted for.

Water

The EMP has not included an assessment of potential impacts from proposed extraction of groundwater, including drawdown in bores or affecting groundwater-dependent ecosystems. Instead the EMP refers its water extraction licence which is set to expire in 2024, before the work programme ends.

ALEC recommends that consideration of the impacts of groundwater drawdown (including the impacts on GDEs) be undertaken as part of an EIA process.

Thank you for the opportunity to comment on this EMP.

Kind regards,

Hayley Michener
Policy and Advocacy Manager, on behalf of Arid Lands Environment Centre.

Middleton, Laura – Sunday, 14 August 2022 – 14:02:44

Subject	Please no fracking - it's too risky for our precious water
From	Laura Middleton
Sent	8/14/2022 2:02:44 PM

Our water table is diminishing as climate change and population growth amps up. We MUST protect our water sources. I would prefer to have less access to gas and electricity than have our fresh water affected. Please, listen to the people. Many thanks, Laura

Laura Middleton
****
QLD 4005

Migios, Vihra – Thursday, 11 August 2022 – 16:52:02

Subject	Fracking Plans and contaminated water
From	Vihra Migios
Sent	8/11/2022 4:52:02 PM

As a Labor Party member I was horrified to read about Origin's plans to open 12 new fracking drills in the Northern Territory, this on the same day that I read about the contamination of drinking water in the NT.

Traditional Owners know full well how contaminated water affects adults and children alike, how fracking destroys country and we all suffer the consequences of a warming climate.

I am left wondering once more whether a Labor government will put a stop to the greed of corporations and their shareholders and instead put the health of communities and country front and centre. I urge you to do so.
Thank you,

Vihra Migios
****
VIC 3181

Miles, Helen – Friday, 12 August 2022 – 14:59:49

Subject	Stop Origin Fracking Plans
From	Helen Miles
Sent	8/12/2022 2:59:49 PM

Stop destroying our country. Fracking is NOT a good thing for anyone. Stop it now!!!

Helen Miles
****
NSW 2440

Millar, Derek – Sunday, 14 August 2022 – 06:18:33

Subject	Just stop it
From	Derek Millar
Sent	8/14/2022 6:18:33 AM

Beyond belief that the NT Government would even consider Origin's proposal to wreck country and climate for the enrichment of a few at the cost to all.
Please throw this proposal out if you love this country.
Derek

Derek Millar
****
NSW 2251

Millar, Lisa – Friday, 12 August 2022 – 20:40:04

Subject	Stop Origins Fracking Plans
From	Lisa Millar
Sent	8/12/2022 8:40:04 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I am writing to strongly oppose Origin's plan to open twelve new fracking drills in the Northern Territory on traditional lands. This will destroy our environment and set a precedent for more companies to do the same. Please consider the impact on the land and the traditional owners of the area and respect their voices. We need to start taking more care of this country for our future generations.

Kind regards,

Lisa Millar

Lisa Millar
****
QLD 4103

Millar, Sharon – Monday, 15 August 2022 – 12:03:34

Subject	stop origin fracking
From	Sharon Millar
Sent	8/15/2022 12:03:34 PM

STOP FRACKING

sharon millar
****
VIC 3141

Miller, Bronwyn – Friday, 12 August 2022 – 07:29:32

Subject	Stop fracking plans in the NT
From	Bronwyn Miller
Sent	8/12/2022 7:29:32 AM

To whom it may concern,
The Northern Territory authorities should listen to their indigenous population and cancel any support for Origin in its fracking plans. Plus Australia cannot afford to risk poisoning underground water in such a fragile environment.
Kind regards,
Bronwyn MILLER

Bronwyn Miller
****
VIC 3153

Miller, Heather – Thursday, 11 August 2022 – 14:57:02

Subject	Stop Origin's Fracking Plans
From	Heather Miller
Sent	8/11/2022 2:57:02 PM

Attention: NT Dept of Environment, Parks and Water Security

I am demanding your Department reject Origin's fracking plans.

The climate impacts of allowing Origin's fracking would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

In addition, the amounts of water required is 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Please do the right thing and stop Origin's fracking plans.

Heather Miller

Heather Miller
****
QLD 4105

Miller, Jacques – Sunday, 14 August 2022 – 13:41:19

Subject	Stop Fracking immediately
From	Jacques Miller
Sent	8/14/2022 1:41:19 PM

To Northern territory Government:
Fracking wells threaten water, our climate and cultural heritage. It must be stopped IMMEDIATELY. We have enough problems with our climate and must NOT add to these. Please stop fracking! That you
Jacques Miller AC

Jacques Miller
****
VIC 3079

Miller, Rebecca – Sunday, 14 August 2022 – 21:18:59

Subject	Stop Origins Fracking Plans!!!!
From	Rebecca Miller
Sent	8/14/2022 9:18:59 PM

Stop Origins Fracking Plans!!!!

Rebecca Miller
****
NSW 2508

Miller, Susanna – Thursday, 11 August 2022 – 14:41:11

Subject	Stop fracking and start renewing.
From	Susanna Miller
Sent	8/11/2022 2:41:11 PM

Origin Energy has been named as one of the least energy companies to support sustainable energy and is keeping fracking large amounts of land instead. Stop now and become an energy company that takes responsibility for the future. Your method of fracking is a fast food method of destroying not renewing.

Susanna Miller
****
NSW 2304

Miller, Tim – Saturday, 13 August 2022 – 08:01:33

Subject	Stop Origin Energy fracking
From	Tim Miller
Sent	8/13/2022 8:01:33 AM

Northern Territory Department of Environment, Parks and Water Security.

To whom it may concern,
I am writing to urge you to urgently stop the Origin Energy plans to frack your incredible country and risk the inevitable dire consequences of that action.
Fracking can cause irreparable damage to the land and the water resources on and below that land. With the appalling weather events we are seeing all around the world we all know that to add more gas into the situation and have additional CO2 added into the atmosphere is reprehensible in the extreme. As a grandparent it will cause me great distress to know that the world I bequeath to my grandchildren is much worse than the world bequeathed to me.
The consequences of allowing this project to proceed are way too devastating to contemplate. I urge you to put an end to this lunacy immediately and for all time.
Tim Miller.

Tim Miller
****
VIC 3666

Miller, Vicki – Sunday, 14 August 2022 – 14:13:55

Subject	Stop Fracking
From	Vicki Miller
Sent	8/14/2022 2:13:55 PM

Vicki Miller from Victoria as I watch Australia slowly sinking into disaster. The Government still are making decisions on our behalf the Australian people. Not just First Nations people that will suffer but we will suffer. NT Government, Fracking is not on the list for climate change improvements, in fact it is dangerous and detrimental to our cause in saving wildlife, vegetation, people, and country. One question when gas and fire are sitting on top of water, isn't that also a fire issue? Seriously No Fracking, the Australian people do not want it, we want our whole country to be the best country, not dead country. Take pride, stop encouraging overseas companies destroying our country owned by the people for the people.

Vicki Miller
****
VIC 3116

Milliken, Natalie – Thursday, 11 August 2022 – 16:33:30

Subject	Stop fracking in the NT
From	Natalie Milliken
Sent	8/11/2022 4:33:30 PM

To the Northern Territory Department of Environment, Parks and Water Security
It is with great concern that the continued practice of fracking is being considered appropriate despite concerns from traditional owners and in flagrant disregard of environmental outcomes.
Please reconsider providing big business opportunities to further degrade our fragile environment and actively damage water supplies.
Sincerely
Natalie

Natalie Milliken
****
NSW 2663

Mills, Brett – Saturday, 13 August 2022 – 05:37:14

Subject	Stop Origin's fracking plans.
From	Brett Mills
Sent	8/13/2022 5:37:14 AM

I am strongly against the fracking process for gas and therefore demand that all such gas process be denied permit on any land in Australia, the companies involved in such projects care not for environment as has been evident in many locations around the world. Any government giving any company authority to use this destructive mining process on Australian lands will not receive my vote at any future elections regardless of party.
Brett Mills.

Brett Mills
****
QLD 4740

Mills, Malcolm – Saturday, 13 August 2022 – 16:13:40

Subject	Stop Origin's fracking plansStop
From	Malcolm Mills
Sent	8/13/2022 4:13:40 PM

NT government stop Origin's
fracking plans, the risk to water is too great. Listen to public opinion..
Think of the future.

Malcolm Mills
****
NSW 2334

Mills, Sue – Monday, 15 August 2022 – 14:36:51

Subject	origin, fracking and the NT
From	Sue Mills
Sent	8/15/2022 2:36:51 PM

Dear representative

I'm appalled to see Origin applying for 12 new exploration wells on the Amungee Mungee station near Daly River

The cynicism and sheer irresponsibility it takes to do this is astounding. I don't know what stories Fossil Fuel executives tell themselves, but it isn't about social license and wider responsibilities. Or even business solutions, innovation, adaptation, re-investment etc

The extraction of huge amounts of water (430 mega litres) for drilling, turning 90 mega litres of that into toxic waste water with no plans other than shifting it interstate to dispose of it, is astounding

Not only ruining a scarce and precious resource but with no plan at all to repair the damage

How do these people think?

Please don't allow Origin to further damage our precious environment. The water, the air and the soil they will devastate in their last efforts to squeeze profits without responsibility are unconscionable. Please do not be yet another dupe for the callous and uncaring fossil fuel industry

It is long past time they did better. If they don't understand that, we do

And so do the Traditional owners and our scientists

Please take this chance to do the right thing

Sue Mills
****
SA 5034

Minogue, Leonard – Friday, 12 August 2022 – 11:05:04

Subject	Stop fracking now
From	Leonard Minogue
Sent	8/12/2022 11:05:04 AM

Real worry for our water source

Leonard Minogue
****
NSW 2454

Minter, Harriet – Sunday, 14 August 2022 – 19:31:45

Subject	Stop Origins plans for fracking
From	Harriet Minter
Sent	8/14/2022 7:31:45 PM

I support the traditional owners in the NT in resisting fracking.
Fracking is impacting negatively on the NT communities' water supply. Origin is not respecting the rights of these Communities which have cared for country for tens of thousands of years without negative impact to the environment and natural ecosystem. Fracking is a form of fossil fuel energy supply which is accelerating climate change.
NT Government needs to source renewable energy producers and allow the long term custodians continue their environmentally safe practises on country.
Harriet Minter

Harriet Minter
****
VIC 3880

Missen, John – Friday, 12 August 2022 – 13:34:47

Subject	Stop Fracking in the Northern Territory.
From	John Missen
Sent	8/12/2022 1:34:47 PM

To the Northern Territory Government,
Underground water is a vital resource in most of Australia.
Fracking is potentially a threat to these water supplies.
Traditional Owners also have grave concerns for both their cultural heritage as well as the threat the water resources.
I urge the Territory to disallow any further fracking.
John Missen, Woody Point, Qld.

John Missen
****
QLD 4581

Mitchell, Jan – Friday, 12 August 2022 – 17:48:09

Subject	New Fracking wells in NT
From	Jan Mitchell
Sent	8/12/2022 5:48:09 PM

To the Resources Department, Northern Territory Government:
I want to lodge a protest against Origin going ahead with opening fracking wells in the Northern Territory.
Fracking endangers artesian water supplies that are vitally important for people and animals in Australia. Fracking is well-known for leaking poisonous chemicals during the fracking process, chemicals that can leach into the water supply, but also poison the groundwater and soil closer to the surface of the well.
There are already new developments that have been made for the supply of alternative heating for industry - hot salt and hot silicone or green hydrogen - to replace gas in many instances. Your government just needs to take a leap and bypass the fracking giants which are holding them to ransom.
There is no need to destroy this magnificent part of our country.
Stop fracking now!
Jan Mitchell,
Rathmines, NSW 2283.

Jan Mitchell
****
NSW 2283

Mitchell, Robert – Sunday, 14 August 2022 – 09:40:54

Subject	Stop Origins Fracking Plans
From	Robert Mitchell
Sent	8/14/2022 9:40:54 AM

To the Northern Territory Department of Environment, Parks and Water Security.
It has Come to my attention that even though there is huge opposition to fracking you are still accepting submissions from Origin and others to drill Fracking wells in NT. Science including our own CSIRO has told us that Fracking is not necessary as we already have sufficient gas reserves in Australia to see us through till we Transition to Renewables. It is simply the greed of the Oil and Gas companies that is driving fracking.
Fracking as we all know can and has destroyed water tables around the world, this along with global warming should be more than sufficient to disallow these new fracking projecs from proceeding.
Yours sincerely
Robert Mitchell

Robert Mitchell
****
TAS 7307

Mitchell, Steve – Thursday, 11 August 2022 – 17:07:55

Subject	Please stop Fracking
From	Steve Mitchell
Sent	8/11/2022 5:07:55 PM

To the NT Dept Environment,

I urge you to reject Origin's plans and send a message that fracking is not a viable alternative in this country. The consequences of this practice on our precious water tables aren't yet fully understood and not worth the risk.

Thanks,
Steve.

Steve Mitchell
****
VIC 3011

Mitchell, Victoria – Saturday, 13 August 2022 – 14:54:45

Subject	Objection to Origins Fracking plans in the NT
From	Victoria Mitchell
Sent	8/13/2022 2:54:45 PM

Hi, Im Victoria Mitchell
I find myself completely bewilled why Your Goverment is planning to allow Origin or any other company to use fracking drills anywhere in the Northern Terrtiory .
Is it not a fact that science & past pratice evidence out there thats prove how disastrous the fracking practice is for the Climate the land the water, the People & culture of these lands ,, in 2022 it is Disgusting that this is in practice or even a option ..
to find out the this is in practices under the guise of exploration under mining any if not all regulations while destorying the land climate & proving the Goverment powerless to stop them .
I thought that this country was eloving towards Climate Responsibility , while Honouring the Traditional Owners right to present the objections to the NT Goverment , I request that the NT Goverment to listern to the Traditional Owners Demands and concerns .
I repectfully demand the Goverment Department Reject Origins EMP..
Regards Victoria Mitchell

Victoria Mitchell
****
WA 6169

Mithen, Kerry – Friday, 12 August 2022 – 15:55:37

Subject	Stop Origins tracking plans
From	Kerry Mithen
Sent	8/12/2022 3:55:37 PM

To The Northern Territory Dept of Environment, Parks and Water Security.
I wish to support the Traditional owners of this country in their fight against fracking corporations like Origin who plan to open 12 new fracking drills across the NT. Fracking impacts our Indigenous community by destroying the land and contaminating the water. Water usage during fracking is also enormous .
As a visitor to the NT, I am dismayed to think the Dept would allow such invasion of the land when there are other, non invasive options available to provide energy.
I request the Dept reject Origins plans.
Yours sincerely
Kerry Mithen

Kerry Mithen
****
VIC 3690

Moar, Graham – Sunday, 14 August 2022 – 16:44:35

Subject	Anti - fracking
From	Graham Moar
Sent	8/14/2022 4:44:35 PM

Surely everyone is aware that 'FRACKING' polutes the groundwater & subsequentially the water in underground basins like the great artesian basin. This can also result in polution of the creeks & rivers. what happens when stock or people get sick (or die) from drinking poluted water ? -- OH - we're sorry but it wasn't our fault. - A bit late for apologies !!

Graham Moar
****
NSW 2137

Moffat, Jodie – Saturday, 13 August 2022 – 11:33:31

Subject	Stop Origin from fracking our land
From	Jodie Moffat
Sent	8/13/2022 11:33:31 AM

Dear Ministers,
We only have one country, with limited water; we only have one planet with limited opportunities to preserve as best as we are able the lifestyle that you and I take for granted. Our children will look back on us to see what we did to keep them safe and healthy. Fracking is not safe and healthy, and we know it. Now is the time for you to use the power you have to preserve our beautiful country. No good can come from fracking for anyone in the NT, in Australia or on this planet... except a corporation that will be long gone when the NT and the rest of us are left to clean up their mess. Let's put our time and government resources into investing in renewable energy sources, which the NT has in abundance - wind, sun, hot rocks, tides. Do for us what you were elected to do: look after our future now. Reject Origin's EMP.

Jodie Moffat
****
WA 6210

Molanus-Winkel, Bea – Thursday, 11 August 2022 – 14:59:27

Subject	No more Fracking
From	Bea Molanus-Winkel
Sent	8/11/2022 2:59:27 PM

My name is Bea Molanus-Winkel
I am 74 years young. I have been active to stop Climate Warming since I was 28.
I can't believe that You Origin are still have not learned a lesson. Fracking is one of the worst to happen. Many accidents. I believe you might see Dollars in your eyes and are not open to protect the planet for the next generation. Please wake up. Look at these younger generations and give them hope. Or look in the mirror and ask yourself by the end of the day. Have I been working towards a better ??. Are my children, grand children , great grandchildren going to be safe. Please send my letter request to all your share holders , so they can sleep o er it and make a decisions.
I hope you deep well after I am working on your concious. Bea

Bea Molanus-Winkel
****
SA 5173

Mollett, James – Thursday, 11 August 2022 – 15:57:34

Subject	Stop origin fracking the NT
From	James Mollett
Sent	8/11/2022 3:57:34 PM

Fracking is not a safe enterprise. It damages the environment above and below the ground. It destroys water security. In this time of climate change it is absurd to be allowing this dangerous practice. Traditional owners have not agreed to this occurring on country. Shit it down

James Mollett
****
WA 6346

Moloney, Lawrence – Sunday, 14 August 2022 – 15:15:24

Subject	Please stop fracking plans
From	Lawrence Moloney
Sent	8/14/2022 3:15:24 PM

Northern Territory Department of Environment, Parks and Water

I am writing to implore you to take the courageous decision to stop Origin's fracking plans.
I understand this is the easy, short term solution to extracting energy and creating a few jobs.
I understand the argument that we are only making a small contribution to pollution compared to what is happening elsewhere.
But now Is the time to make a stand. I believe the evidence points strongly to this decade being our last chance to ensure our planet can sustain us.
The planet of course will survive with or without us - but what a waste it would be to see our species disappear. And what an ugly road to our own annihilation it would be.
Thanks for your attention.
Lawrence Moloney
Adjunct Professor
La Trobe University

Lawrence Moloney
****
VIC 3121

Monie, Peter – Saturday, 13 August 2022 – 16:05:33

Subject	Please stop all fracking in the Northern Territory!
From	Peter Monie
Sent	8/13/2022 4:05:33 PM

For the sake of the environment, to fight climate change and to protect indigeneous lands, it is vital than all new fossil fuel projects do NOT proceed. Please act immediately so that life on earth can be preserved

Peter Monie
****
VIC 3929

Monro, Robin – Friday, 12 August 2022 – 14:50:27

Subject	Stop Origin's Fracking
From	Robin Monro
Sent	8/12/2022 2:50:27 PM

Dear Sir / Madam,

Origin's fracking proposal in the NT is irresponsible and reckless and follows a trend of companies exploiting this nation's natural resources with total disregard for the people and ecosystems they affect. Origin's plans are hasty and ill thought out, and don't follow the recommendations from prior environmental recommendations, including those of the Pepper Inquiry. Their massive use of water for this project will be disastrous for the fragile systems that will be affected by these fracking projects.

I implore you to deny theirs and any further requests to frack irresponsibly in the NT.

Kind regards,
Robin Monro

A concerned citizen

Robin Monro
****
ACT 2614

Monteith, Brandon – Thursday, 11 August 2022 – 15:33:43

Subject	Stop all fracking in the Northern Territory
From	Brandon Monteith
Sent	8/11/2022 3:33:43 PM

To the Northern Territory Department of Parks and Water Security,

I live in Victoria, but have been a visitor to your beautiful part of the world on several occasions. I am very concerned about the possibility of fracking being approved in the Northern Territory. I feel that this gas extraction is for huge, but short term, profits for a few rich companies at great expense to Australia. The risk of polluting precious water as well as the waste of huge volumes of precious water in the fracking process can not be ignored.
The amount of CO2 emitted with the burning of gas as well as the huge amount of fugitive emissions in the process of gas extraction will exacerbate an already alarming climate emergency.
Please invest wisely in energy production and support renewable energy instead of fossil fuel energy. Please reject any fracking proposals for the Northern Territory.
Thank you for making a wise decision.
Sincerely,
Brandon Monteith

Brandon Monteith
****
VIC 3438

Moody, Darren – Thursday, 11 August 2022 – 15:56:59

Subject	Please stop Origin's fracking plans for the N.T
From	Darren Moody
Sent	8/11/2022 3:56:59 PM

To the Northern Territory Department of Environment, Parks and Water Security,

My name is Darren Moody and whilst I'm a resident of NSW I am deeply concerned about Origins plans to commence twelve new fracking drills in the N.T. My concern comes from a place of protecting traditional ownership of this country and the Australian and world environment.

These new fracking plans from Origin need to be stopped.
The science shows, and our governments know, that this extensive fracking will not only lead to increased carbon emissions but will do much more damage to our environment and people.
This use of the country goes against the wishes of, and does not have the approval of the traditional owners. Beyond this, twelve new drills will use and posion water sources relied upon by remote communities.

Please cease this damage to country and set a precedent of acting to protect our environment, not one of allowing gas companies to put profits before people.

Darren Moody
****
NSW 2774

Moon, Aditya – Thursday, 11 August 2022 – 14:47:12

Subject	Stop Origin's plans to Frack
From	Aditya Moon
Sent	8/11/2022 2:47:12 PM

Please don't allow fracking to occur in the Northern Territory. Fracking should never have been allowed to be performed on country in the first place. We are the driest continent in the world and our artisan water has kept many communities alive through drought and climate change. Do you not remember there was a huge inland freshwater lake in the Nullabour Plain but it got depleted by steam trains until it was GONE!! Despite please from the communities that relied on the lake to survive. It's gone, the animals are gone and so too are the steam trains and the people who profited from this venture. Enough is enough - we cannot undo the damage already caused by Fracking - just like the steam trains - research it!! But we can stop more damage from occurring by stopping this choice. Please say NO TO FRACKING.

Aditya Moon
****
NSW 2482

Moore, Cathy – Sunday, 14 August 2022 – 09:24:50

Subject	Opposition to Origin Energy's Fracking Plans
From	Cathy Moore
Sent	8/14/2022 9:24:50 AM

To The Northern Territory Government

I am writing to ask your government to disallow the planned 12 new exploratory fracking wells near Daly Waters

We -my husband and I are travelling around this beautiful, fragile land and are currently staying in Tennant Creek
We are from Melbourne
We have seen the disastrous effects of poorly devised solutions across this country-such as the environmental havoc inflicted by the introduced buffel grass.

Once the ground water is contaminated then the country becomes unsustainable for people, plants and animals.
Trucking the toxic waste water interstate does not seem to be a safe or viable solution

Lastly -on talking to traditional owners who oppose this plan I believe we do need to acknowledge that these owners know this country so much better than us and we need to act on these concerns and disallow fracking.

We are a clever country-we should be able to find solutions to our energy requirements that do not threaten or destroy our country

Yours sincerely
Cathy Moore

Cathy Moore
****
VIC 3072

Moore, Jake – Monday, 15 August 2022 – 11:41:22

Subject	Origin of Misery
From	Jake Moore
Sent	8/15/2022 11:41:22 AM

I'm crushed to hear of yet another plan to tear up the earth, to tear up sacred lands, for just more money. I'm writing to plead with the Department of Environment, Parks, Water and Security to serve and protect it's name sake. Origin of what? There are better ways

Jake Moore
****
VIC 3072

Moore, Jan – Thursday, 11 August 2022 – 19:23:10

Subject	Stop Origin's fracking plans
From	Jan Moore
Sent	8/11/2022 7:23:10 PM

To Northern Territory Department of Environment, Parks and Water.
Stop any sort of fracking in the Northern Territory and for that matter anywhere else in Australia. It is detrimental to the land, water and climate and therefore detrimental to any life on the continent.
Renewable energy only please.
Best wishes, Jan Moore.

Jan Moore
****
WA 6036

Moore, Palitja – Sunday, 14 August 2022 – 14:52:16

Subject	Stop Origin's fracking plans
From	Palitja Moore
Sent	8/14/2022 2:52:16 PM

To the NT Department of Environment, Parks and Water Security

If the NT Government approves these fracking plans, it would be paving the way for Origin to frack and destroy country, water, and our climate, and set a horrifying precedent for other fracking corporations to do exactly the same.

Fracking is feeding the climate crisis, which the NT especially cannot afford - it will become unlivable, per climate modelling. We must stop new fossil fuel projects if we have any hope of addressing climate change.

If we are to respect the traditional owners, we must respect country and say no to fracking. If we respect landholders who rely on groundwater, we must say no to fracking.

Please say no to Origin's plans.

Palitja Moore
****
SA 5172

Moore, Robert – Thursday, 11 August 2022 – 15:16:17

Subject	Stop Origin's Fracking Plans
From	Robert Moore
Sent	8/11/2022 3:16:17 PM

To Northern Territory Department of Environment,

According to scientists and the IPCC we must leave all remaining gas and oil in the ground if we are to stay below 1.5 degree global warming. Please do the right thing by the planet and human race by saying no to any more fracking for gas in NT.

Robert Moore
Sydney

Robert Moore
****
NSW 2040

Moore, Robert – Sunday, 14 August 2022 – 14:35:53

Subject	Please ensure Origin's fracking plans are stopped.
From	Robert Moore
Sent	8/14/2022 2:35:53 PM

To the Northern Territory Department of Environment, Parks and Water Security.
I am a concerned Australian citizen. I have followed the history of 'Fracking' in Australia and in USA.
Our underground water systems must remain uncontaminated. Contamination cannot be removed and any damage caused will be irreparable. No amount of money business or government hope to make from the sale of gas can be justified considering the harm done. The pristine quality of the water systems is essential, any short term or future profits from gas are definitely not essential considering the importance of the water systems.
These proposed fracking operations are not in Australia's best interests and they are not in the Northern Territory's best interests.
Please ensure that these fracking projects do not proceed.
Yours sincerely
Rob Moore

Robert Moore
****
NSW 2795

Moorhead, Sam – Monday, 15 August 2022 – 16:35:34

Subject	Submission on the Origin Amungee NW Delineation Program EMP
From	Sam Moorhead
Sent	8/15/2022 4:35:34 PM

To whom it may concern,

Please find attached a submission made on behalf of the Lock the Gate Alliance on the Origin EMP currently open for public comment, along with an appendix comprising the expert advice of Dr Penny Sackett. This report should be considered part of the submission.

Please don't hesitate to get in touch via return email or by ********* 126 if you wish to discuss anything contained in the submission.

Yours sincerely,

Sam Moorhead

--

Sam Moorhead

Lock the Gate Alliance
My pronouns are they/them

****

<mailto:**********>
I acknowledge the Wurundjeri people as the custodians of the land on which I work. This always was and always will be Aboriginal land.

Attached Documents

LOCK THE GATE ALLIANCE
AUSTRALIANS WORKING TOGETHER TO PROTECT OUR LAND, WATER, AND FUTURE

DEPWS Petroleum Operations Unit
Northern Territory Government

15 August 2022

SUBMISSION - Origin Amungee NW Delineation Program EMP (ORI11-1)

Lock the Gate Alliance welcomes the opportunity to comment on the Environment Management Plan submitted by Origin for its proposed work program on the Amungee NW site ('the EMP').

The Lock the Gate Alliance is a national collection of grassroots organisations made up of over 120,000 supporters and hundreds of local groups concerned about risky coal mining, coal seam gas and fracking. Several of these groups are located in Darwin, Katherine and Alice Springs, as well as rural and remote areas around the NT. Our members include farmers, traditional custodians, conservationists and urban residents. Together, we have a vision of healthy, empowered communities that have fair, democratic processes available to them to care for their land and water.

We are opposed to the development of a new onshore shale gas industry in the NT because of the serious damage to our climate, groundwater and ecosystems this industry will inevitably cause. Greenhouse gas emissions must be urgently and absolutely reduced, not merely offset. There is no viable way to counteract the emissions created by opening up the Beetaloo. Pursuing new gas fields is not compatible with a liveable future for the Territory.

Beyond the dangers inherent to new fossil fuel projects, there are multiple flaws with this EMP which mean that it falls short of the standard required under the Petroleum (Environment) Regulations 2016 ('PER') and should not be approved.

Specifically, the EMP:

- Fails to adequately and accurately describe the climate impacts of the project;
- Misleadingly downplays the emissions profile of the presented testing scenarios;
- Is predicated upon inadequate baseline biodiversity data collection and fails to properly assess impacts to biodiversity at the species population and ecosystem-wide level;
- Does not assess the impacts of proposed groundwater extraction and use;
- Proposes a water monitoring regime that does not comply with the Code of
- Fails to fully assess the impacts of liquid and solid waste produced by the activities; and
- Essentially neglects to assess the project's cumulative impacts.

Further, it is clear even on the face of the patchy analysis in the EMP that the project has the potential to have a significant environmental impact. The work program should thus be referred to, and assessed by, the NT EPA.

We also note with concern Origin's attempt to secure approval for two years' recovery and sale of gas under the guise of reducing the climate impact of the project. If Origin wishes to lower the enormous scope 1 footprint of its project, it should explore ways to beneficially use the gas from the already lengthy 90 or 135-day EPT options. Keeping 12 wells running for 2 years would result in over 2.1Mt of greenhouse gas pollution, which would make a significant contribution to the NT emissions inventory and to global climate change, even if Origin can sidestep responsibility by shifting the label from 'scope 1' to 'scope 3'. This is production by stealth in a blatant attempt to start profiting from gas extraction before all Pepper Inquiry recommendations are implemented, and should not be permitted.

Issue 1: Greenhouse gas emissions and climate impacts

Origin's analysis of the climate impacts of the work program are inadequate and inappropriate in three main ways:

1. **Emissions calculations:** The presented emissions profile of the activities does not include an estimate of scope 3 emissions under the "beneficial use" scenario despite justifying this scenario on climate grounds and omits readily foreseeable sources of emissions.
2. **Climate impact of expected emissions:** Origin does not describe the impacts of its expected emissions on global warming, the consequences of global warming for the Northern Territory, both fundamental environmental impacts of the project.
3. **Unsubstantiated claims about climate neutrality of natural gas**: The EMP includes largely baseless claims about the possibility for 'low-carbon' natural gas and alleged climate benefits of onshore gas.

The analysis presented in this section is informed by, and consistent with, the **expert opinion of Dr Penny Sackett**. Dr Sackett is a Distinguished Honorary Professor at the ANU Institute for Climate, Energy and Disaster Solutions with more than 30 years' experience in her field. Key elements of her opinion are excerpted in the following section of this submission, and the entire advice can be found at **Appendix A**. A copy of Dr Sackett's CV is also included.

1.1 Presented emissions estimates are incomplete and misleading

1.1.1 Inconsistent emissions totals presented

The EMP provides total emissions estimates for three scenarios: a 90-day well test, 135-day well test and a 'beneficial use' 24-month scenario. The totals are summarised in table 24:

Emission scenario	FY23	FY 24	FY 25	FY26	Total	Comments
90-day average well test	35,489	120,147	118,516	89,586	**363,738**	12 total E&A wells with a 90 day well test
135-day average well test	62,059	172,799	171,535	129,258	**535,651**	12 E&A wells with an average well test duration of 135 days
Beneficial use: 24 month well test	15,013	35,703	33,919	26,566	**111,201**	12 E&A wells with appraisal gas used for beneficial use

These emissions totals are incorrect.

An itemised list of the emissions expected to arise from each assessed activity is also included, at table 25 of the EMP. If the items on this list are summed, different - higher - totals result, as shown in the following table prepared by Dr Sackett in her advice (see table 2 in the advice):

Emission Scenario	Total direct (Scope 1 for the facility) emissions (tonnes CO_2-e)
90-day average well test	376,782
135-day average well test	548,878
Beneficial use: 24-month well test	124,408

1.1.2 Omission of obvious sources of greenhouse gas pollution

The EMP's quantification of expected emissions omits the greenhouse gas pollution arising from most of the proposed waste treatment activities.

Origin's waste treatment methodology includes:

- Using mechanical evaporators, brine crystallisers and thermal combustion treatment systems to enhance wastewater evaporation;
- Pumping wastewater between open-topped and close-topped tanks to avoid over-topping in the wet season;
- Trucking wastewater between exploration sites and well-pads; and
- Using 20 B-Triple road-trains to truck residual solid and semi-solid wastes to a facility in Jackson, Queensland.

All of these activities can be expected to result in greenhouse gas emissions, especially trucking waste 2,532km to the WestRex facility in Queensland, but none are included in the EMP emissions analysis.

1.1.3 Misleading description of "beneficial use" scenario

Origin presents a "beneficial use" scenario in the EMP, where well testing would last for up to 730 days. The gas would apparently be used on-site for power-generation, or piped into the nearby McArthur River Pipeline, presumably for use at the mine or for on-transport to the Amadeus-Darwin pipeline. Alternatively, testing would be conducted for 90 or 135 days (although Origin describes a 135-day test as "worst-case" it also states that it expects this to be the 'average' duration[1]).

Origin justifies this very extended production testing period on the basis that it would lead to a 'significant reduction in scope 1 emissions' (from 535,651t CO2-e down to 111,201t).[2]

What Origin fails to mention is that under this scenario, the actual emissions footprint of the project would be substantially higher. Drawing on the estimated emissions resulting from use of 3% of produced gas to power gas compression (60,939t), producing and using gas for 2 years would create **2,031,300t** of avoidable greenhouse gas pollution. Adding the expected emissions from all the other relevant activities, the actual emissions impact of the beneficial use scenario would be **2,142,501 tonnes of CO2-e**. This is equivalent to **12% of the NT's total emissions** for 2020, a huge cost for just one company's exploration activity under one EMP.

As Dr Sackett writes:[3]

> *Origin may be able to reduce Scope 1 emissions from its own proposed facility via the 24-month `beneficial use' scenario, but other emissions will be generated as a result of the use (combustion) of the generated gas. If the gas is used at the Origin facility itself, or elsewhere in NT[4], these emissions will be Scope 1 emissions for the Territory…*
>
> *…regardless of where the combustion of the gas produced by the putative 24-month scenario would take place, whether onsite or elsewhere in the NT (or indeed, anywhere else) the associated GHG emissions will have the same negative impact on the environment of NT on a tonne per tonne basis.*

[1] Origin, *Amungee NW Delineation Program Environment Management Plan*, 3 ('EMP').
[2] EMP, 72.
[3] Dr Penny D Sackett, 'Expert Report Regarding the Greenhouse Gas and Climate Implications of the proposed Origin Beetaloo Sub-Basin Exploration Project (ORI11-1)' (14 August 2022), [127] ('Advice of Dr Sackett').
[4] Given that the proposed pipeline for such gas (the MacArthur River Pipeline) lies entirely within the NT, it is assumed in this Report that the putative gas would be combusted in the NT.

From the perspective of actual impacts to climate change, and from the contribution the project will make to the Northern Territory's emission reduction targets, the proposal to produce gas for two years rather than 5 months is clearly a much more damaging proposition. Failing to acknowledge this is frankly deceptive.

This proposal is only "beneficial" to Origin, which stands to profit from produced gas (either in savings from substituting for purchased power or gas sales) prior to the implementation of all Pepper Inquiry recommendations and without obtaining a production licence. Arguing that this scenario is beneficial to anyone or anything other than Origin is completely fallacious.

The failure to report the scope 3 emissions of the project directly affects the Minister's ability to make an informed decision about the environmental impacts of the proposed activities. As Dr Sackett writes:[5]

> *…all emissions arising directly or indirectly from an activity lead to global warming and climate change, regardless of where they are emitted. Thus, all emissions, including scope 3 emissions released when fossil fuels are combusted by any end user, must be included when considering the effect on the climate of a given activity.*

Thus by omitting multiple relevant sources and types of greenhouse gas emissions, the EMP does not support the Minister to assess the full environmental impact of the project.

1.1.4 Climate risk under the "beneficial use" scenario is not reduced to ALARP

Aside from the spurious rationale about reducing project emissions, the other justification put forward for the 730-day testing period is that it will 'increase the understanding of the technical viability of the resource and allow an optimised development concept'.[6]

Confusingly, as Dr Sackett notes, the quantity of emissions Origin asserts will arise from 'well testing' is the same for the 135-day scenario as the 24-month scenario: 1,951t. This implies that Origin would not actually conduct more well testing under the beneficial use scenario than the 135-day scenario, indicating in turn that 135 days of testing is sufficient for the exploration objectives.

Well testing from 90 to 135 days is industry standard for appraisal of the Velkerri play in the Beetaloo. Any testing beyond this is arguably excessive and, as a consequence, the greenhouse gas impacts have not been reduced to a level that is as low as reasonably practicable.

1.1.5 Obviously incomplete cumulative emissions assessment

Origin's assessment of the so-called 'GHG cumulative emissions' is blatantly incomplete and presents a misleading understanding of the cumulative climate impact of gas activity in the Beetaloo.

The PER require each EMP to include '*details of all environmental impacts and environmental risks… and an assessment of those impacts and risks*', with the assessment required to include '*the cumulative effects of those impacts and risks when considered with each other and in conjunction with any other activities or events that occurred or may occur in or near the permit area for the regulated activity*'.[7]

Even on a narrow reading of this provision, limited only to gas activity in the Beetaloo, Origin fails to meet this requirement.

The so-called 'cumulative' GHG emissions assessment table excludes quantified emissions from:

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[5] Advice of Dr Sackett, [272].
[6] EMP, 72.
[7] Petroleum (Environment) Regulations 2016, Sch 1, cl 3.

- Origin's own activities on the Amungee site, which date back to before the fracking moratorium;

- Origin's own approved and planned activities on other tenements before FY23 - for example, 130,825t over 2022-24 on neighbouring EP76;

- Other companies' approved gas exploration activities since the moratorium was lifted - totalling to over 785,000t CO2-e just since 2019; and

- Activities proposed in two EMPs currently under assessment - totalling to an additional 753,441t CO2-e[8].

This clearly falls short of the standard required under the PER.

Rather than actually describing the cumulative greenhouse gas emissions from the project and other relevant gas industry activity, and effects of those emissions, this section is mostly devoted to irrelevant and largely unsubstantiated claims about the purported climate benefits of natural gas (see section **1.3** below). This is patently both inadequate and inappropriate.

Dr Sackett concluded that Origin's assessment of the cumulative GHG effects of the project is 'irrelevant and misplaced'. The question that this section of the EMP should be asking (and answering) is 'what would be the effect of the Project given pre-existing conditions'. Artificially constraining the scope of 'pre-existing conditions' - omitting such conditions as the pool of greenhouse gases already in the atmosphere, the swiftly contracting carbon budget, the sharply rising emissions inventory of the NT and the effects of climate change already being experienced in the NT - to just the emissions from a sub-section of Origin's activities means that the EMP does not meaningfully engage with the cumulative effects of the project and therefore does not meet the requirements in the PER.

1.2 The EMP does not describe or assess the climate impacts of the project

1.2.1 Significant contribution to NT emissions inventory and climate change

The total emissions from the 'worst case' (also referred to as the 'average') scenario put forward in the EMP are over half a million tonnes of GHG emissions.

This equates to approximately 1.3% of the NT's total annual GHG emissions, and approximately 0.05% of Australia's national emissions.

Every tonne of GHG emissions leads to (more) dangerous warming. Contrary to what Origin asserts in the EMP,[9] this emissions footprint *is* 'significant' - put in its proper context, an emissions profile equivalent to over 1% of the Territory's entire emissions contributed by just one program of exploration activity from just one company operating in just one industry is absolutely significant.

In any case, as Dr Sackett writes:[10]

> *An argument that the Project's emissions represent a small fraction of the Territory's emissions is irrelevant and misleading. If individual consent authorities around the world were to accept this argument and act upon it to approve fossil fuel expansion projects, the climate change predicament would, per force, continue to worsen.*

[8] Sweetpea's EMP for EP136 (448,331t) and Imperial A's EMP for EPs 167 & 168 (305,114t).
[9] See EMP Appendix L, item 76.
[10] Advice of Dr Sackett, [319].

The climate impact of the fugitive methane emissions from this project is particularly notable. The EMP estimates that the project's fugitive methane emissions equate to 16,401t of CO2. This estimate uses the 100-year timescale Global Warming Potential factor for methane of 28. However, as Dr Sackett notes:

> *on timescales appropriate for potential shale gas development and an approach to net zero by 2050, 20-year times scales are relevant, in which case a GWP of 82.5 for CH_4 is … is appropriate. Over 20-year times scales, the global warming effect of Project fugitive emissions is three times higher, namely equivalent to the effect of the release of 48,325 tCO_2.* ***This highlights the enormous climate damage over a relatively short period of time that could be done if the Beetaloo Sub-basin were opened up to gas shale development.***

Further, Dr Sackett concludes that the consequences of methane release for climate change are actually even worse than this 20-year factor indicates. This is because:

> *…even though CH_4 from Project fugitive emissions will leave the atmosphere more quickly than would CO_2, the increased warming it causes in the shorter term could increase feedbacks in the Earth System and speed the onset of irreversible tipping points in the Earth System… Indeed, a recent report[11] studying methane sinks and sources concludes that the climate sensitivity to methane is likely four times greater than given in AR6 WGI, which would make CH_4 a more potent accelerant of global warming than previously thought.*

1.2.2 EMP does not describe greenhouse gas emissions' impact on global warming

What this EMP should be doing is presenting an assessment of the impacts further emissions of greenhouse gases will have on the climate, and the flow-on impacts of climate change on the Northern Territory's environment.

The mechanism by which anthropogenic greenhouse gas emissions are warming our global climate is well-understood, and described by Dr Sacket in section 4.1 of her advice.

Despite listing the emissions that will be created by its project, Origin does not at all describe how these emissions will contribute to global climate change. This constitutes a failure to comply with the requirement in the PER to describe all environmental impacts of the regulated activity.

1.2.3 EMP does not describe the impacts of climate change on the Northern Territory

Climate change impacts are already being experienced across the Northern Territory. Core impacts identified by the NT Government include:[12]

- A significant increase in the number of extremely hot days, both in the Top End and central Australia;
- The intensity of heavy rainfall events has increased and will continue to increase;
- Droughts are likely to be more severe and more extreme fire behaviour is expected;
- More intense tropical cyclones; and
- Higher sea levels and temperatures.

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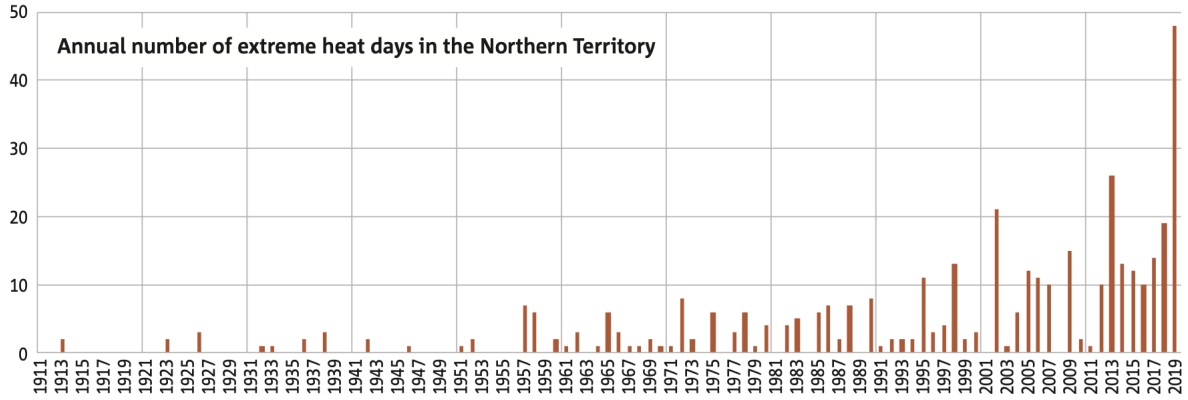
[11] Cheng, C-H. et al (2022) Impact of interannual and multidecadal trends on methane-climate feedbacks and sensitivity. Nature Communications, 13: 3592. Accessed at: https://www.nature.com/articles/s41467-022-31345-w

[12] See Advice of Dr Sackett, section 6.13.

As Dr Sackett states, 'climate impacts are hitting harder and sooner than previous scientific assessments have expected'.[13]

The following graphic, derived from data from the Bureau of Meteorology by Dr Sackett, illustrates the steady increase in extreme heat days in the NT caused by climate change.

	Darwin		Tennant Creek		Alice Springs	
	Days above 30°C	Days above 35°C	Days above 38°C	Days above 44°C	Days above 38°C	Days above 44°C
1959–1988	295	7	39	0	41	4
1989–2018	327	14	48	7	49	24



This trend will continue, given that some degree of warming is essentially 'locked in' due to inaction on reducing emissions so far. The extent to which the severity of this trend grows depends on the extent to which global GHG emissions continue to grow - most importantly, emissions from fossil fuel extraction and use. More detail is provided in section 6.13 of Dr Sackett's advice.

If fossil fuel extraction and use continues, including through developing the Beetaloo, there is a real and tangible risk - if not an inevitability - that large parts of the NT will be unlivable in a matter of decades.

None of the established impacts of climate change, directly relevant to the greenhouse gas emissions from the project and from developing the Beetaloo, are described or assessed in the EMP. This, again, constitutes a failure to comply with the requirements in Schedule 1 of the PER, and to provide the Minister with an accurate understanding of the environmental impacts of the project.

1.3 Unsubstantiated claims about gas and climate change

1.3.1 Assertions made about the climate neutrality of gas are not credible

Origin claims that 'it is anticipated that a future shale gas development will be net zero scope 1 and 2 emissions, through the utilisation of world's best practice emission reduction technology, such as field electrification, flare minimisation strategies, use of renewable energy sources and procurement of emission offsets'.[14]

It is unclear where, if at all, such 'world's best practice' technologies are being used.

[13] Ibid, [184].
[14] EMP, 81.

As Dr Sackett's analysis shows, actual scope 1 emissions from unconventional gas production in the US - the location of the vast majority of shale gas production - are not remotely approaching net zero, but have instead flatlined over the past decade.[15]

Origin provides no detail or evidence to support its assertion, and it is not credible.

Similarly, Origin claims that the 'net climate benefits of using natural gas in replacing coal for electricity generation is up to 50% less emissions'.[16]

This claim is based on one paper which, as Dr Sackett points out, is not relevant to the project because it focussed on potential whole-of-life costs and possible benefits for coal- to gas-switching for electricity production for a particular CSG to LNG project in Queensland. Fractured shale gas developments use entirely different technologies, and have a completely different emissions profile. In particular, there is no certainty yet about how and where Beetaloo gas would be used - there is no guarantee that any Beetaloo gas would be used to displace coal in power generation, especially given the enormous costs and other obstacles to building the infrastructure required to transport gas from the Beetaloo to the east coast.

Finally, Origin also states that scope 3 emissions would be reduced through 'investigation [sic] in low emission technologies, such as carbon capture and sequestration (CCS) enable blue ammonia/hydrogen and electricity export'.[17]

Carbon capture and storage is unproven at relevant scales and thus cannot reasonably be relied upon or considered relevant in the assessment of environmental impacts associated with this project and developing the Beetaloo. It is unclear how and why 'electricity export' would lower the scope 3 emissions of the gas.

These assertions are empty, unsubstantiated gas industry rhetoric and are irrelevant to the consideration of the acceptability of the environmental impacts of this project. They provide no assurance that the completely foreseeable consequences of developing the Beetaloo - covered in depth by Dr Sackett - would be avoided or even tangibly reduced.

1.3.2 Developing the Beetaloo is not compatible with limiting warming to less than 2 degrees

Fossil fuel-related emissions in the Northern Territory have been increasing sharply and consistently in recent years. If this trend continues, the NT will be irrevocably placed on a trajectory well outside the scenario of keeping warming to less than 2.0°C.[18]

The International Energy Agency has stated categorically that no new gas fields can be developed if the world is to sustainably limit warming to 1.5°C,[19] while the United Nations Environment Programme has concluded that governments should be reducing fossil fuel production by 6% every year between now and 2030 to avoid exceeding the 1.5°C limit.[20] Further information about the 'Production Gap' between the essential reduction in fossil fuel use, and governments' commitments to fossil fuel expansion, is provided in Dr Sackett's advice at section 7.3.

The objective of this project is to assess the commercial viability of producing gas in the Beetaloo. From any perspective other than creating a new source of revenue for gas

[15] See Advice of Dr Sackett, section 8.4
[16] EMP, 81.
[17] EMP, 81.
[18] See Advice of Dr Sackett, section 7.2.1.
[19] International Energy Agency, Net Zero by 2050: A Roadmap for the Global Energy Sector (May 2021) <https://www.iea.org/reports/net-zero-by-2050>.
[20] United Nations Environment Programme, Production Gap Report 2020 (December 2020), 36 <https://productiongap.org/wp-content/uploads/2020/12/PGR2020_FullRprt_web.pdf>.

companies, this objective is not worth pursuing and achieving it would in fact be highly detrimental to the health, liveability and prosperity of the Northern Territory.

1.3.2 This project is not compatible with achieving essential climate targets, with the precautionary principle or with the principle of intergenerational equity

In order to achieve the newly legislated 2030 emissions reduction target of 43% on 2005 levels, Australia will need to reduce its annual emissions by 14.4 million tonnes every year.[21] According to analysis by a panel of independent climate experts, Australia's remaining carbon budget (as at 2021) was only 3,521Mt CO2-e to have a 67% chance of not exceeding 1.5°C.[22]

Developing a new onshore gas basin is not compatible with achieving these targets.

It is also not compatible with essential principles of environmental - and general - government decision-making: the precautionary principle and the principle of intergenerational equity.

Dr Sackett's advice articulates why this is the case:[23]

> *…the effects of climate change – which are caused by anthropogenic GHG emissions – are already serious; more than that, they are in fact dangerous. Furthermore, some of these effects are already irreversible and more will become so with even relatively small amounts of additional warming beyond that of 1.5°C, which is already locked in.*
>
> *Every tonne of GHG emission leads to (more) dangerous warming. It is not possible to know which amount, from which source, will precipitate environmental subsystems, including those in NT, to tip irreversibly. In this context, the Precautionary Principle certainly applies.*
>
> *Unabated climate change is likely to be [the] greatest overall threat to the environment and people of NT because it is comprehensively dangerous, global, fundamental, rapid, compounding, self-reinforcing, has delayed effects and, in some cases, is irreversible.*
>
> *In my opinion, environmentally sustainable development is development that avoids the catastrophic risks that climate change poses, noting the special nature of climate change as a risk not only to the natural environment, but also human health, well-being and livelihoods.*
>
> *…*
>
> *The climate change externalities of the Project will be borne disproportionately by younger and future generations, with no clear recourse or path to remediation. Given that any future emissions 'lock in' extra warming, there is no possibility for true `remediation' of the climate damages caused by emissions from the Project. These damages include deterioration in the health, diversity and productivity of the environment, and have direct consequences for human health and livelihood. Currently, the `polluter pays' principle is certainly not being applied to the damages associated with GHG emissions.*

[21] Australia's 2005 emissions were 621,130,000t, while a 43% drop on that would result in the 2030 emissions total being approximately 354,044,100t. From the 2020 emissions total of 497,700,080t, a linear reduction over the 10 years to 2030 means an annual reduction of 14,365,598t.
[22] Climate Targets Panel, *Australia's Paris Agreement Pathways: Updating the Climate Change Authority's 2014 Emissions Reduction Targets* (January 2021), 9.
[23] See section 8.7.2.

Issue 2: Biodiversity

2.1 Inadequate baseline surveying and data collection

Origin's approach to collecting data about the baseline biodiversity values present at the Amungee NW project site was insufficient and fails to support either an accurate assessment of the risks posed to biodiversity by the work program, or the development of appropriate impact mitigation measures.

The EMP's biodiversity descriptions and impact assessments are founded upon searches of various flora and fauna databases, such as the NT Government Fauna Atlas.[24] The results of these searches are used to obtain an initial list of threatened species potentially occurring on or in the vicinity of the project site, which is then narrowed by the application of various, mostly unsubstantiated assumptions and the results of two targeted on-site surveys.

These databases do not provide accurate and comprehensive information about the distribution of threatened species in the NT. The absence of a thorough understanding of the biodiversity assets of regions including the Beetaloo was a key concern of the Pepper Inquiry, which concluded that '*the likelihood of onshore shale gas development occurring in currently undocumented areas of high conservation value … is "high", given the lack of comprehensive and systematic information on the biodiversity assets of prospective regions…*'.[25] This assessment led the Inquiry to recommend the completion of a Strategic Regional Environmental Baseline Assessment ('SREBA') prior to the industry progressing to the 'production' stage.

The SREBA has not been completed, and significant gaps remain in the NT's biodiversity databases. The distributions of most species (including those formally recognised as "threatened") are known only in general terms at best, and there is very limited knowledge of geographic patterns of diversity and endemism. In this context, the robust and thorough collection of representative baseline data by companies on a site-specific basis is all-important.

This has not occurred in the case of this EMP.

Only two field surveys were conducted, and both occurred during the dry season: September 2021 and another in May 2022.[26] Given that several of the threatened species (such as the Gouldian Finch) identified as possible or likely to occur on-site move into habitats found in the project area to forage during wet seasons,[27] it was inadequate to conduct both field studies outside of the wetter parts of the season.

It does not appear that any surveying or trapping was conducted to ascertain the presence of either the Brushtail Possum or the Pale Field-rat, despite suitable habitat being found throughout the project area and recent records of the Possum in a relatively close location. The EMP also only reports only the fauna spotted during the May 2022 field study, not including sightings in the September 2021 trip.[28]

Similarly, no surveying was conducted for the Plains Death Adder, or indeed any impact analysis included in the EMP, despite evidence that this species could occur at all of the proposed well pad locations.

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[24] See EMP, sections 5.2.3 and 5.2.5.
[25] Pepper Inquiry Final Report, 186.
[26] EMP, Appendix J, 1.
[27] EMP, Appendix J, 10, 46.
[28] EMP Appendix J, Table 20.

Surveying for the Crested Shrike-tit appears to have consisted of someone looking around with binoculars for just 10 minutes after 5 minutes of call-back, while no call-back was conducted at all for the Gouldian Finch.

Observation for the Grey Falcon was limited to scouting one tower; it does not seem as though any surveying was undertaken at this species' preferred nesting habitat of tall trees.

Finally, no sampling at all was conducted for stygofauna, despite recent published research finding stygofauna eDNA at the two locations surveyed within the project area. Instead of these recent, site-specific findings prompting Origin to conduct surveying to ascertain whether stygofauna are indeed present in aquifers on-site, Origin draws the opposite - and somewhat bizarre - conclusion that this research somehow indicates that stygofauna are not likely to be present.[29] This is hardly a robust basis for impact assessment and mitigation, and is concerning given the high biodiversity values that the potentially novel and complex assemblages of stygofauna are likely to hold.[30]

Origin's approach to collecting baseline biodiversity data leaves many gaps in knowledge about the presence, distribution and vulnerabilities of endangered species located within and around the project area. It falls far short of the standard required to support an effective impact assessment and mitigation plan, and does not meet the requirement under the PER to describe the existing environment and its values and sensitivities.[31]

2.2 No impact assessments for multiple threatened species

The EMP does not assess the potential impacts of the project on the identified threatened species, instead merely making assertions - sometimes without evidence - about the unimportance of the project area for the species.

In relation to the Gouldian Finch, Origin states that there is suitable habitat within the project area, as well as perennial grasses known to provide forage resources during the wet season.[32] The EMP then proceeds to conclude that it is 'unlikely' that Finches would breed in close vicinity to the exploration well sites, with no further explanation as to why this is the case. The EMP states that there are limited records of the species in the area and there is extensive foraging habitat elsewhere. The problems with relying on database records were set out in section 2.1. There is no evidence to support the contention that there is 'extensive' foraging habitat in the region. There is no analysis of how the proposed works could affect local populations of Gouldian Finches. This does not constitute an impact assessment.

Similarly, the EMP finds that the Grey Falcon could be present in the project area, but does not assess how the species might be impacted by the project.[33] Origin states that this species is unlikely to be impacted by its activities 'because suitable nesting trees will not be cleared', but fails to engage with other potential impacts, such as reduction in prey populations due to clearing and industrial activities in the area.

The sections on the Brush-tailed Possum and Pale Field-rat imply that impact will be minimal given the size of the project footprint compared to the apparent overall distribution of potential habitat for these species. There is no analysis of whether regionally significant populations might occur within the project area, nor of how the work program might impact on members of these species that do occur within or near the site - for example, clearing of undergrowth removing

[29] EMP, 147.
[30] Gavin Rees et al, 'Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory' (2020) GISERA project W18.
[31] Petroleum (Environment) Regulations 2016, Sch 1, cl 2.
[32] EMP, 135.
[33] See EMP, 136.

protection for the Pale Field-rat, overnight lighting and works affecting both species' ability to forage effectively at night-time, and so on.

The same approach is taken for the Painted Honeyeater: there is appropriate habitat for this species within the project area, but the EMP does not assess the impacts of the project on the Honeyeater, instead just stating that the area proposed for clearance is relatively small (with no evidence or vegetation mapping to support this statement).

These sections of the EMP clearly fail to assess the impacts and risks of the project to relevant threatened species, falling short of the requirement in clause 3 of the PER.

2.3 No consideration of habitat fragmentation and 'edge effects'

Habitat fragmentation from onshore gas is one of the major risks to biodiversity in the Beetaloo Sub-basin.[34] Origin states that the project area contains relatively intact habitat that is not already fragmented,[35] but then fails to take the next step of assessing how the proposed work program might itself fragment or otherwise impair habitat.

Instead, the EMP lists a few mitigation measures aimed at preserving habitat, including visual checks for sensitive habitat during vegetation clearing and a commitment to not cut hollow- and large-trees that exist in the area that are important for threatened species.[36] These mitigation measures do not obviate the need for an impact or risk analysis on how the project as a whole will impact threatened species' habitat in the area.

The need for a project-wide assessment of the potential for habitat fragmentation is heightened by the intensity of the proposed development, especially compared to previous exploration programs. The work program involves the construction of four large well pads at relatively proximate locations. Clearing several large patches of land, along with access tracks, within a concentrated area has obvious potential to disrupt wildlife corridors and the integrity of habitat, including canopy cover, within the project area. The EMP fails to acknowledge or assess these impacts of the work program.

Notably, the Code of Practice for Onshore Petroleum requires an assessment of project impacts on 'important habitat' for threatened species, not just direct impacts to individual members of those species.[37] Origin does not take this approach, instead focusing on whether relevant fauna are likely to be present on-site, and therefore affected by the work program. Origin concludes that due to a "scarcity of records and lack of core habitat, it is unlikely that significant populations of these species occur within the Amungee delineation area" and "[i]t is therefore unlikely threatened species will be significantly impacted from Origin's proposed exploration activities."[38] Origin's failure to assess how the project will impact overall on areas of important habitat -

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[34] See Pepper Inquiry Final Report, 197: "Vegetation clearing can also result in the fragmentation of faunal habitat, which leads to a proliferation of habitat edges, with edge effects on the abiotic environment (including microclimate, light and wind) known to occur up to 500 m or more from cleared areas. In the US, it has been estimated that the loss of core habitat through edge effects associated with onshore gas development can be at least twice that lost directly through vegetation clearing. A 4.5% loss in forest cover in the central Appalachians due to shale gas development has been assessed as translating to a 12% loss in core forest once edge effects are considered, and this had a detectable impact on local bird communities. Habitat loss and fragmentation can be a particularly important issue when development areas cover a substantial portion of the distributions of legislatively listed threatened species."

[35] EMP, Appendix L, Row 33, 42.

[36] EMP, Appendix L, Row 40.

[37] Code of Practice: Onshore petroleum activities in the Northern Territory, s A.3.5.

[38] EMP, Appendix J, p. 59.

including, for example, the identified foraging habitat for the Gouldian Finch - constitutes a failure to meet the requirements of the Code.

2.4 Failure to consider impact of wet season operations on threatened species

One of Origin's objectives for this EMP is to demonstrate that drilling, fracking and other gas industry activities can safely occur year-round - i.e., including through the wet season. However, Origin fails to include any analysis about how undertaking such works through the wet season may impact species whose behaviour and distribution shifts in the wet season.

The EMP acknowledges that the Gouldian Finch moves from hillsides down to lower lying areas to forage on certain species of perennial grass, which are found on the project site,[39] but fails to assess whether and how clearing, drilling and fracking over the wet season could disrupt these behaviour patterns.

Similarly, Origin concludes that several migratory wetland bird species listed under the EPBC Act could occur at 'ephemeral wetlands' within the project area during the wet season,[40] but fails to consider how conducting works over the wet season could impact upon these threatened species. There is no evidence that the work program has been designed to avoid ephemeral wetlands or otherwise minimise the impact on migratory and other wetland bird species, meaning that there is no indication impacts to threatened species have been reduced to ALARP.

2.5 No consideration of impacts of flaring on birds

There are several ways in which flaring threatens avian species, yet such risks were not mentioned in the EMP. Birds of prey, such as the threatened Grey Falcon, commonly sit on flare stacks scouting for prey, and they can be directly incinerated by the flames, or poisoned by the gases emitted through the flare if the flare is not igniting properly.[41] These bird injuries and deaths can be mitigated by installing netting around the flare to prevent birds of prey from accessing it, or installing anti-perching devices on the stacks. The light of gas flares at night or in low-visibility conditions also attracts birds, posing particular threats to nocturnal species like owls and those that migrate at night.[42] This can result in additional mortalities from incineration in the flare itself, as well as injury or death if the birds attracted to the well pad land in the waste pits.[43] Pulling birds off their migration track can result in sub-lethal impacts as well.[44] Bats also exhibit maladaptive behaviour in the presence of artificial lights, such as flares, which reduce their

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[39] EMP, 135.
[40] EMP, 143-4.
[41] Tina Deines (2020) 'Invisible menace: Methane flares increasingly scorching birds at U.S. landfills', *National Geographic*, https://www.nationalgeographic.com/animals/article/methane-flares-scorching-birds-us-landfills?loggedin=true; US Fish and Wildlife Service (2021) *Incidental Take Beneficial Practices: Gas Flares*, https://www.fws.gov/story/incidental-take-beneficial-practices-gas-flares.
[42] Robert H. Day et al. (2015) 'Effects of Gas Flaring on the Behavior of Night-Migrating Birds at an Artificial Oil-Production Island, Arctic Alaska', 68 *Arctic* 367–379, https://www.jstor.org/stable/43872255.
[43] Keeping Company with Kestrels, Inc. & EDM International, Inc. (2013) *Methane burner impacts on raptors*, https://www.keepingcompanywithkestrels.org/wp-content/uploads/2012/01/Methane-Burner-Impacts-on-Raptors.pdf.
[44] Robert H. Day et al. (2015) 'Effects of Gas Flaring on the Behavior of Night-Migrating Birds at an Artificial Oil-Production Island, Arctic Alaska', 68 *Arctic* 367–379, https://www.jstor.org/stable/43872255.

foraging activities.[45] Minimising the light pollution impacts of flares on birds and bats requires avoiding flaring at night, in low-light conditions, and during peak migrations.[46]

Issue 3: Water

3.1 Failure to analyse impacts of groundwater extraction and use, including cumulative impacts of extraction from the GRF

Origin proposes to extract 430 million litres of groundwater from the Gum Ridge Formation of the Cambrian Limestone Aquifer over three years to facilitate its work program.

The EMP does not include any analysis of the impacts of this groundwater extraction on other water users or on groundwater-dependent ecosystems. Instead, Origin refers to the statement of reason for its water extraction licence, which permits the extraction of 175ML/yr from the GRF up to the end of 2024.

This decision allegedly covered the anticipated (conservatively high) future water take for civil construction, drilling, stimulation and well activities over the foreseeable future.[47]

It is inappropriate for Origin to rely on the WEL analysis without further assessment, because the decision failed to consider past, current, and future water uses from oil and gas activities in its cumulative impact analysis. For example, the statement of reason failed to consider a permit for Santos Ltd for 193.5 ML per annum from the GRF that was issued before Origin's WEL was awarded when analysing cumulative water extraction.[48]

The WEL also failed to consider foreseeable future gas projects that are already requesting significant levels of groundwater extraction. Sweetpea Petroleum Pty Ltd, for example, has been granted approval to extract 299 ML per year from the same formation through to 2024. The WEL also failed to consider the anticipated volume of oil and gas wells in the Beetaloo Sub-basin mentioned above, or whether future oil and gas development in the southern part of Beetaloo will represent unsustainable use of the groundwater resource.[49] Instead, the WEL's cumulative impact study examined only one other unnamed water extraction licence for 967.5ML in addition to existing domestic uses, homestead use, and use for the Elliot township in determining whether the Project could impact groundwater discharges or the reliability of groundwater fed springs.[50]

The PER require EMPs to include details of all environmental impacts and risks and assess those impacts and risks, including the cumulative effects of those impacts and risks. It is not clear that this requirement allows EMPs to refer to an assessment conducted as part of a separate regulatory process for a distinct purpose; if it does not, this means that the EMP fails to meet this clause of the PER.

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[45] Daniel Lewanzik & Christian C. Voigt (2014) 'Artificial light puts ecosystem services of frugivorous bats at risk', 51 *Journal of Applied Ecology* 388–394, https://onlinelibrary.wiley.com/doi/abs/10.1111/1365-2664.12206.

[46] US Fish and Wildlife Service (2021) *Incidental Take Beneficial Practices: Gas Flares*, https://www.fws.gov/story/incidental-take-beneficial-practices-gas-flares.

[47] EMP, 56.

[48] NT Department of Environment and Natural Resources, Water Extraction Licence GRF 10280, granted to Santos Ltd. (Santos WEL), p. 1 (8 May 2019) http://www.ntlis.nt.gov.au/walaps-portal/noiNodSod/licence/GRF10280.

[49] Pepper Inquiry Final Report, 136.

[50] "There is one water extraction licence in the Gum Ridge Formation, which authorises a total maximum extraction of 967.5 ML from the licensed period of May 2019 to December 2023": Department of Environment and Natural Resources, Water Extraction Licence GRF 10285, granted to Origin Energy B2 Pty Ltd. (Origin WEL), para. 26, p. 5. (11 Jun. 2019).

In any case, given that the WEL statement of reason failed to take into account directly relevant and cumulative water allocations, in relying purely on this decision, the EMP fails to meet the obligation under the PER.

It is also important to note that the Pepper Inquiry concluded that it had insufficient information about groundwater in the NT to enable a full assessment of risks relating to unsustainable groundwater use, contamination of groundwater by hydraulic fracturing fluids and wastewater, groundwater contamination from surface spills, and the effect of these groundwater quality and quantity issues on surface and terrestrial groundwater-dependent ecosystems.[51] The recommendation to complete a SREBA, along with updated water allocation plans for relevant regions, was prompted by this conclusion.

The SREBA has not yet been completed, and new WAPs have not been developed. The program of groundwater research catalysed by the Pepper Inquiry is ongoing, with published papers consistently noting considerable remaining uncertainty and the need for continued research. In this context, it is questionable whether the true potential impact of Origin's project can be understood at all, and it certainly cannot have been fully assessed by the Water Controller in a decision made in 2019.

3.2 No acknowledgement of considerable uncertainty and risk of reusing produced water

The EMP makes repeated reference to the reuse of produced water to reduce total freshwater required for the hydraulic fracturing process. However, it is important to recognise that there is still uncertainty about the viability of this approach. It is unclear how much water can effectively be reused and what the other consequences of this reuse may be, including reducing the effectiveness of the fracturing, or increasing the concentration of pollutants in wastes. The Pepper Inquiry stated:

> '*"Reuse" refers to the practice of using treated or untreated flowback and produced water as a proportion of the water used to make new batches of hydraulic fracturing fluid. Reuse of wastewater can reduce, but not eliminate, the amount of fresh water needed for hydraulic fracturing since the volume of flowback water from a single well is generally small compared to the total volume needed to fracture the well. The extent of reuse of flowback or produced water depends on its quality, as certain contaminants can interfere with hydraulic fracturing performance. For example, the presence of calcium and sulfate ions can cause scaling in the well, and the presence of suspended solids can decrease the effectiveness of the biocide, which together with scaling, can cause plugging of fracture networks and wells*.'[52]

Thus, certain flowback and produced water may not work for reuse, and the viability of this reuse, how much water comes back from the formation, and the treatment of that water necessary to make reuse viable can only be determined after fracking begins and testing of the flowback and produced water commences.

In addition to concerns about the viability of water reuse, the contaminants in flowback may become more concentrated with reuse, and demand special treatment processes in the future as a result. The Amungee NW 1-H well Water Quality Monitoring Results, the closest approximation to results likely from the wells proposed in the EMP, state that "flowback water had approximately 80 times the level of chloride, 8 times the level of barium and 15 times the level of boron respectively of Gum Ridge aquifer values at the well site," and that measurements of radiation of the flowback fluid found results eighteen times and five times the drinking water

[51] Pepper Inquiry Final Report, 166.
[52] Pepper Inquiry Final Report, 75.

guidelines, for gross alpha and beta measurements respectively.[53] When these high dissolved solids and radiation levels are concentrated through reuse, the management and treatment of the resulting wastewater will become yet more difficult.

Given these uncertainties about the volumes and qualities of produced water, the assumptions made about water reuse in the EMP must be considered highly speculative.

3.3 Inadequate assessment of risks to groundwater quality posed by spill

Evidence from international experience indicates that 'on-site spills of chemicals and wastewater are very likely to occur on onshore shale gas well pads', generally due to container and equipment failures, human error, blowouts, pipeline leaks and the inappropriate dumping or disposal of wastewater.[54]

The EMP mentions several actions and activities that are likely to increase the risk of a chemical or wastewater spill. These include trucking wastewater and solid wastes between well pads and exploration sites; trucking waste interstate, and pumping wastewater from open-topped to close-topped tanks in preparation for high rainfall events.

Every additional instance of handling and transfer increases the risk of a spill, and as a result, the risk of soil and water contamination. Despite this, Origin does not acknowledge that any of these proposals change the risk profile of the work program, or include any analysis to demonstrate that the spill risks of the activities have been reduced to a level that is as low as reasonably practicable.

Further, the EMP does not take into account the influence of a changing climate in making rainfall events more extreme and less predictable, which is directly relevant to the risk associated with the proposal to pump water from open-topped to close-topped tanks eight hours prior to a forecast intense rainfall event.

3.4 No assessment of impact to surface water flows from pipelines

The EMP proposes - and thus seeks approval for - a "beneficial use" scenario in which gas is produced from the 12 wells for a period of 730 days, and piped into the MacArthur River Pipeline. Origin indicates that this scenario would require the construction of 25km of pipeline, though no map is provided to show exactly where these pipelines would run, nor is any information provided about their diameter, pressure, and so on.

The construction of linear infrastructure such as pipelines is a necessary part of developing a gas field, and can have a significant impact on surface water flows and erosion.[55] The EMP does not contain any assessment of these environmental impacts associated with potential pipelines. The construction and use of gas pipelines should not be approved under this EMP in the absence of this clearly necessary information and impact assessment.

The Pepper Inquiry recommended that pipeline corridors be constructed to minimise interference with wet season water flow paths, to minimise erosion and to preserve fauna passage.[56]

There is no indication in the EMP that Origin has considered this recommendation, let alone complied with it.

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[53] NT Department of Environment and Natural Resources (2016) *Amungee NW 1-H petroleum well: Hydraulic fracturing and testing program, Water Quality Monitoring Results*, https://depws.nt.gov.au/__data/assets/pdf_file/0003/726591/amungee-water-quality-monitoring-report.pdf.
[54] Pepper Inquiry Final Report, 153.
[55] Pepper Inquiry Final Report, 161.
[56] Recommendation 7.18.

3.5 Inadequate groundwater monitoring

There are multiple pathways by which shallow aquifers could be contaminated as a result of unconventional gas exploration, including through surface spills and the migration of methane or deeper groundwater from target reservoirs via a failure of well integrity or the exacerbation of underground fractures and faults.

Acknowledging these pathways, and the potentially devastating consequences of groundwater contamination in the NT, where many users and ecosystems depend on the shallow aquifers of the CLA, the Pepper Inquiry made a suite of recommendations relating to groundwater monitoring.

Part of this recommendation was the real-time monitoring and reporting of electrical conductivity, as an essential 'early warning' indicator of contamination.[57]

Origin does not propose to comply with this essential recommendation, instead putting forward a plan to only monitor for changes in salinity on a quarterly basis.[58] This is clearly inadequate: by the time several months have passed, substantial contamination could have occurred - especially if it occurs through a slow leak in a wastewater tank or from a well - and it is not at all clear how Origin would propose to remediate aquifer contamination.

Issue 4: Waste

4.1 Incomplete assessment of the environmental impact of project waste

Origin proposes to evaporate flowback fluid in open-topped tanks, and then to truck the resulting semi-solid and solid salt waste to the Westrex treatment facility in Jackson, Queensland.

The EMP does not include any assessment of the environmental risks posed by this toxic waste. The description of waste management in the EMP concludes with the waste being deposited at the interstate facility. There is no description of how these toxic materials are treated at the facility, or any assessment of the residual environmental risk they may pose - especially as waste accumulates over time.

It is also not apparent from the EMP that Origin will not handle or transport toxic materials during the wet season, or how decisions will be made about the acceptability from an environmental risk perspective of doing so.

4.2 No consideration of cumulative waste from fracking

As fracking activity intensifies in the Beetaloo, with several EMPs recently approved or currently under assessment, the volume of toxic residue wastes will continue to increase. There is no clear pathway under Northern Territory Government policy or regulation for the long-term management of this waste, nor does Origin suggest one.

Origin does not include any assessment of the environmental risks and impacts associated with the accumulating volumes of drilling and fracking waste in the EMP, omitting a clear source of environmental risk associated with the onshore gas industry and failing to comply with the requirement to undertake cumulative impact assessments in the PER.

Conclusion

Dr Sackett concludes in her advice that:

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[57] Pepper Inquiry Final Report, 150.
[58] EMP, 95.

> *based on the evidence … including the enormous risks posed by global warming surpassing 2°C, including irreversible consequences, and the potentially enormous contribution of the shale gas development in NT in increasing that likelihood, it is my view that any benefits of the Project to the Territory are far outweighed by costs borne by the majority of NT inhabitants, particularly the youngest.*

Lock the Gate Alliance completely agrees with this conclusion. On this basis, we strongly argue that neither this project, nor any further progress towards developing a new onshore gas industry in the Beetaloo Sub-basin, should be approved - and that doing so would be a grave dereliction of duty by the Northern Territory Government.

In the case of this EMP, there are numerous serious flaws in the assessment presented that mean that it falls short of the standard required under the PER, and cannot be considered to support an informed decision by the Minister. This is especially the case in the absence of any referral to, and assessment by, the NT EPA.

Thank you for considering our submission,

Sam Moorhead
On behalf of Lock the Gate Alliance.

Expert Report Regarding the Greenhouse Gas and Climate Implications of the proposed Origin Beetaloo Sub-Basin Exploration Project (ORI11-1)

Dr Penny D Sackett
Distinguished Honorary Professor
ANU Institute for Climate, Energy and Disaster Solutions

14 August 2022

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1 Preliminaries

1) This expert report (hereafter, **this Report**) is a response to a brief provided to me by Environmental Defenders Office (hereafter, EDO) on 5 August 2022. Said brief (hereafter the **EDO Brief**) is annexed to this report as Appendix A.

2) As detailed in the EDO Brief, I understand that this Report has been requested by EDO on behalf of its client, Lock the Gate, in relation to the ORI11-1 Amungee NW Delineation Program on Exploration Permit 98 in the Beetaloo Sub-Basin (hereafter, the **Project**), proposed by Origin Energy B2 Pty Ltd (hereafter, **Origin**).

3) My independent expert advice has been sought with regard to the greenhouse gases hereafter, **GHGs**) and climate change impacts associated with the Project, including a review of information provided in the Project's Environmental Management Plan (hereafter, the **EMP**). In order to provide background to the specific issues raised, this Report provides in its first sections a review of the current state of knowledge and current trends regarding GHGs and climate change. Subsequent sections then discuss how these relate specifically to the Project and its EMP.

4) Origin states[1] that the EMP forms the basis of its application to the Northern Territory (NT) Minister for Environment for a series of exploration activities proposed for the Amungee Delineation Area for the financial year (FY) 2023 to 2026 period, including:

   a) Civil construction of up to 4 exploration and appraisal (E&A) well sites and associated infrastructure;

   b) Drilling, hydraulic fracture stimulation (HFS) and well testing of up to 12 exploration and appraisal (E&A) wells at four new exploration locations; and

   c) Acquisition of a 10 x 2D seismic survey totalling approximately 60 km (31.66 ha)

5) The proposed exploration would target the Velkerri shale resource and be in addition to an existing E&A well that was drilled and `stimulated' in 2015/16 in anticipation of future

[1] EMP NT-2050-15-MP-0088 (10 July 2022) Accessed at: https://depws.nt.gov.au/onshore-gas/environment-management-plan/origin-energy-b2-pty-ltd-environment-management-plan-for-the-amungee-nw-delineation-program

development of the shale gas in the Velkerri formation. Future development may include shale intervals not covered in this EMP.[2]

6) I have reviewed the NT Supreme Court Practice Direction for Expert Reports and the Expert Witness Code of Conduct[3], and agree to be bound by these directions in this Report. Specifically, I understand and agree to comply with the expectation that ``*An expert witness is not an advocate for a party and has a paramount duty, overriding any duty to the party to the proceedings or other person retaining the expert witness, to assist the Court impartially on matters relevant to the area of expertise of the witness.*''

7) External sources used in this Report are referenced. Unless otherwise indicated, modelling work presented in external sources is taken at face value, as verifying the results is beyond the scope of this Report. Where relevant, underlying assumptions are noted.

8) Culminating years of work, the United Nations' Intergovernmental Panel on Climate Change (IPCC) has recently released three assessment reports in its sixth series, one from each of its Working Groups. As a compendium of recent science, these reports form an important evidentiary base and are referred to often in this Report. They are:

   a) Climate Change 2021: The Physical Science Basis (hereafter, AR6 WGI),[4]

   b) Climate Change 2022: Impacts, Adaptation and Vulnerability (hereafter, AR6 WGII),[5] &

   c) Climate Change 2022: Mitigation of Climate Change (hereafter, AR6 WGIII)[6]

9) A curriculum vitae of my qualifications and experience is attached as Appendix B of this Report.

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[2] EMP NT-2050-15-MP-0088 (10 July 2022) Accessed at: https://depws.nt.gov.au/onshore-gas/environment-management-plan/origin-energy-b2-pty-ltd-environment-management-plan-for-the-amungee-nw-delineation-program

[3] Accessed at: https://supremecourt.nt.gov.au/__data/assets/pdf_file/0010/727507/expert-reports-6-of-2015.pdf

[4] IPCC (2021) Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at https://www.ipcc.ch/report/ar6/wg1/

[5] IPCC (2022) Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

[6] IPCC (2022) Climate Change 2022: Mitigation of Climate Change, Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg3/

2 Executive Summary

10) The primary conclusions of this Report are presented below. Sections of the Report that contain more detail are listed in brackets after each main point.

11) Unabated climate change is likely to be greatest overall threat to the environment and people of the NT because it is comprehensively dangerous, global, fundamental, rapid, compounding, self-reinforcing, has delayed effects and, in some cases, including effects currently underway, is irreversible. [Section 3]

12) The current level of global warming is about 1.2 degrees Celsius (°C) above pre-industrial times. For comparison, the temperature difference between ice ages and the intervening periods is about 4°C – 6°C. [Sections 3 and 6.1]

13) Some aspects of the Earth system have already changed irreversibly. Continued warming increases the risk that some subsystems of the Earth will cross `tipping points' that would cause irreversible changes. Some subsystems already show signs of approaching these transitions, which could accelerate climate change and greatly intensify its impacts, perhaps irreversibly. [Sections 3 and 3.9]

14) Greenhouse gases (GHGs) emitted by human activities are responsible for essentially all of the global warming driving climate change. [Sections 4.1 and 4.3]

15) The primary anthropogenic GHGs are carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O). Atmospheric concentrations of all these gases have risen dramatically since the 1960s at an accelerating rate. The level of CO_2, the most important GHG driving current climate change, is now higher than at any other time humans have inhabited Earth. [Section 4.1]

16) All weather effects are affected to some extent by climate change. Scientists are now able to quantity the effect of climate change on many individual events. [Section 4.2]

17) About 90% of the CO_2 emitted by humans each year is from the burning of fossil fuels: coal, gas, and oil. [Section 4.4]

18) A discrepancy in the EMP that results in the GHG estimate for the `Beneficial Use: 24-month well test being underreported in a table is corrected in this Report. [Section 5]

19) From a scientific perspective, all emissions, including Scope 3 emissions released when fossil fuels are combusted by any end user, must be included when considering environmental and social effects, including environmental and social effects to the NT. This applies to gas generated for sale by the Project. [Section 5.1]

20) Current effects of climate change worldwide include increased severity of storms and heat waves, species extinction, wildfires, coastal inundation from rising sea levels and increased storm surge. Changes are happening rapidly, examples include: [Section 6.1.1]

    a) Increases in the Earth's energy imbalance, the difference between the amount of solar energy absorbed and the amount of energy radiated into space at a given time, has been estimated in mid-2019 to be about 2 to 3 times what it was in mid-2005.

    b) The past seven years have been the hottest seven years on record.

    c) Over just the last two years, precipitation, heat, and wildfire records have been broken across all areas of the globe.

21) Most years in Australia are now warmer than almost any year in the 20th Century. Long-term increases in extreme fire weather and fire-season length are seen across the country. Three billion individual native vertebrates perished in the 2019/20 Black Summer fires. Australians are five times more likely to be displaced by a climate-fuelled disaster than someone living in Europe. The cost of extreme weather disasters in Australia has more than doubled since the 1970s, reaching $35 billion for the decade 2010-2019. Australia has been rated fourth highest in the G20 for economic losses per unit of GDP incurred from extreme weather events over the last 20 years (1999-2018). [Section 6.1.2]

22) The trajectory of human emissions, particularly between now and 2030, is the most important determinant of how much more climate change is in store. Already, human choices have essentially ensured that 1.5°C of warming will happen in the next two decadesIf the current trend of rising emissions continues, in just 80 years, global warming could be 3°C – 4°C above pre-industrial temperatures. [Section 6.2.1]

23) Climate impacts are hitting harder and sooner than previous scientific assessments have expected. [Section 6.2.2]

24) Future impacts depend on the level of warming that is reached, some of which are detailed in Table 1 below. [Sections 6.2.2, 6.2.3, and 6.2.4]

Table 1: Consequences of Global Warming at Different Levels

Warming above the pre-industrial epoch	Some of the Impacts
1.1 – 1.2°C	***This is the current level of warming.*** 47% of local extinctions reported across the globe during last century can be attributed to climate change. Millions of people are displaced annually because of weather/climate disasters. Peak heatwaves that occurred only once per 30 years in pre-industrial times in Australia, can now be expected every 5 years. Most years in Australia are now warmer than almost any year in the 20th century. Some NSW forests are near, or have already crossed, local tipping points that will irretrievably alter those ecosystems. The frequency of very warm days in Australia has increased approximately fivefold compared to the period 1960-1989. Black Summer wildfires occur in Australia in 2019-20. Similar fires happen in California in 2020 and 2021, and in Canada in 2021. Temperatures reach 38°C above the Arctic Circle and 50°C in Canada. Both poles simultaneously experience heatwaves of 30 to 40°C above their normal temperatures in March 2022.
1.5°C	***This level of warming will almost certainly be reached, as early as sometime in the 2030s.*** Peak heatwaves that occurred only once per 30 years in pre-industrial times in Australia, can be expected every 2.7 years. 6% of insects, 8% of plants, and 4% of vertebrates lose over half of their climatically determined geographic living area. What used to be Australia's hottest year on record (2019) is now an average year. Many places in the NT experience twice the number of days over 35°C compared to the historical past.
2.0°C	***This level is above the Paris Agreement goal of "holding the increase in global average temperature to well below 2°C above pre-industrial levels."*** 13% of the Earth's surface undergoes complete ecosystem transformations. 99% of the world's coral reefs, including the Great Barrier Reef, are eliminated. The number of insects, plants and vertebrates losing over half of their habitat doubles compared to losses at 1.5°C.

2.0°C (cont.)	Moderate risk of large-scale singular events leading to climatic tipping points. The world's most vulnerable people experience compounding crisis upon crisis. In Australia, considerably higher risk of impacts compared to 1.5°C with regard to: a) Water stress and drought, b) Shifts in biomes in major ecosystems, including rainforests, c) Changes in ecosystems related to the production of food, d) Deteriorating air quality, e) Declines in coastal tourism, f) Loss of coral reefs, sea grass and mangroves, g) Disruption of marine food webs, loss of finfish, and ecology of marine species, h) Heat related mortality and morbidity, and i) Ozone-related mortality. Black Summer-like weather conditions are four times more common than in 1900. Sydney and Melbourne experience summer temperatures of 50°C. Rising sea levels exacerbate the impacts of storm surges in the NT and the acidity of its coastal waters increase by as much as 40% by century's end.
3.0°C – 4.0°C	***This level of warming could be a consequence of the world continuing with its current policy settings regarding GHG emissions.*** Most of the world's ecosystems are heavily damaged or destroyed. Extreme weather events are far more severe and frequent than today. Large areas of the world become uninhabitable, causing migration and conflict. Aggregated global impacts significantly damage the entire global economy. Peak heatwaves that occurred only once per 30 years in pre-industrial times in Australia expected annually. Megafires occur in southeast Australia irrespective of whether in drought or not. Many locations in Australia become uninhabitable due to water shortages. Many Australian properties and businesses are uninsurable. Severe impacts to both flora and fauna cause many of Australia's ecological systems to become unrecognisable. Sea level rise transforms Australia's coastal regions, putting the health and wellbeing of many people at severe risk. The intensity of marine heatwaves around NT doubles compared to that experienced at about 2.5°C. Darwin experiences heatwave conditions on average four months per year. Moderately high risk that a cascade of tipping points in the climate system drives the Earth system into a Hothouse Earth state not seen for millions of years, irrespective of humanity's late attempts to reduce emissions.

25) The world is emitting greenhouse gases on a trend that would lead to substantially more dangerous climate change. Nations that have committed to reducing emissions by 2030 have done so on average by only 7.5%, whereas a 30% reduction (on 2010 levels) is needed to limit warming to 2°C and a 55% reduction is needed to limit warming to 1.5°C. Australia's 2030 emissions reduction target is inconsistent with global warming of 1.5°C. [Sections 7.1 and 7.1.1]

26) Based on current policies as opposed to Paris Agreement pledges, warming could go as high as 3.6°C. [Section 7.1]

27) Only about 8 years remain at current emission levels before the remaining global carbon budget to hold warming to 1.5°C with at least a 67% chance is exhausted. [Section 7.2]

28) How emissions evolve in this decade to 2030 is considerably more important than whether net zero emissions are reached in 2050. Reaching net zero by 2050 is, in and of itself, not sufficient to hold warming to 1.5°C – 2°C. [Section 7.2.1]

29) Recent sharp increases in fossil fuel related emissions in the NT, if continued, would place the Territory well outside trajectories compatible with warming of less than 2.0°C. [Section 7.2.1]

30) In order to have even a 50% chance of holding warming to 1.5°C, 58% of oil, 56% of fossil methane gas, and 89% of coal reserves must not be extracted. Despite this, governments are still planning to produce about 45% more fossil fuels by 2030 than would be consistent with a 2°C pathway and more than double than would be consistent with a 1.5°C pathway. [Section 7.3]

31) The International Energy Agency's (IEA) global energy sector roadmap for net zero emissions by 2050 lists as a major milestone that no new oil or gas fields be approved for development, beginning in 2021. [Section 7.3]

32) Research indicates that 29% of Australia's fossil methane gas reserves (as of 2018) and globally 56% of all such reserves – must stay in the ground in order for the world to have a 50% chance of holding warming to 1.5°C. [Section 7.3.1]

33) The Project is inconsistent with holding global warming to well below 2°C. [Section 8.1]

34) Origin's submission as to the cumulative GHG effects of the Project are irrelevant and misplaced. The cumulative effect of all GHGs causes climate change, and climate damages and risks to the people and environment of the NT. Many of these cumulative effects are maintained for decades, centuries and millennia. It is therefore necessary to consider the cumulative effect of all GHGs emitted by any source when assessing the additional impact of the Project. [Section 8.2]

35) The `beneficial use' of the shale gas released by this Project, as described in the EMP's beneficial use: 24-month scenario, would considerably worsen the climate impacts of the Project. [Section 8.3]

36) Based on evidence from GHG inventories from the United States for gas wells using hydraulic fracking, actual Scope 1 emissions from unconventional (fracked) gas production are not approaching net zero, but to the contrary, have flat-lined over the past 5 to 10 years. [Section 8.4]

37) Research quoted by Origin in the EMP is not relevant to the Project as it examined potential whole-of-life costs and possible benefits for coal- to gas-switching for electricity production for a particular coal seam gas to LNG project in Queensland. Fractured shale gas developments use an entirely different technology. [Section 8.5]

38) It is not possible to calculate a single number for the GHG effect of switching from gas to coal for electricity generation due to the possible need for new infrastructure, variance in the efficiencies of different gas and coal fired power stations, and differences in the GHG footprints of supply chains. A recent study examining coal to gas switching in China found that in the short term, fuel switching could increase GHG radiative forcing by a factor of 3 or decrease it by 70%. [Section 8.5]

39) Offsetting a percentage of emissions (even if the offset is scientifically valid) means that the remainder of the emissions are definitively contributing to climate change. Reliance on offsets is unlikely to significantly mitigate climate change since offsets do not reduce emissions, scientifically, GHGs from fossil fuels cannot be 'offset' – in a climate sense – with biological GHG sinks, and many offset programs are ineffective in producing real reductions in GHGs. [Section 8.6]

40) Due to the strength of methane as a GHG over 20-year times scales, over the timescales over which the Beetaloo Sub-basin might be developed for gas, and the time to reach net zero by 2050, the global warming effect of Project fugitive methane emissions is three times higher than the values given in the EMP. [Section 8.7.1]

41) In addition to concern over the rapidly rising fraction of atmospheric methane since about 2008, two different research reports indicate that (a) methane releases from the fossil fuel energy sector are being underreported by global governments by about 70%, and (b) methane may be a much more potent accelerant of global warming than previous recognised. [Section 8.7.1]

42) Every tonne of GHG emission leads to (more) dangerous warming. It is not possible to know which amount, from which source, will precipitate environmental subsystems, including those in NT, to tip irreversibly. In this context, the Precautionary Principle certainly applies. [Section 8.7.2]

43) An argument that the Project's emissions represent a small fraction of the Territory's emissions is irrelevant and misleading. If individual consent authorities around the world were to accept this argument and act upon it to approve fossil fuel expansion projects, the climate change predicament would, *per force*, continue to worsen. [Section 8.7.2]

44) The climate change externalities of the Project, will be borne disproportionately by younger and future generations, with no clear recourse or path to remediation. Taken together with the evidence supplied by this Report of the enormous risks posed by global warming surpassing 2°C, including irreversible consequences, and the contribution of the Project in increasing that likelihood, it is my view that any benefits from the Project are far outweighed by costs borne by the majority of NT inhabitants, particularly its youngest. [Section 8.7.2]

3 Why Climate Change is Different to other Threats

45) **Scientists describe the amount of global warming by comparing the average global surface temperature of the Earth now to that in pre-industrial times** (often taken to mean prior to about 1850). An enormous amount of energy (heat) is required to raise the average surface temperature of the entire Earth by even a small amount. It is this large energy increase that drives the major changes in climate being experienced now, by 'super-charging' the Earth's physical systems.

46) Consequently, **climate change impacts can be large even for rather small changes in the global surface temperature**. **The global average temperature difference between glacials (ice ages) and the periods in between (interglacials) is about 4 – 6°C** (Fig. 1).[7]

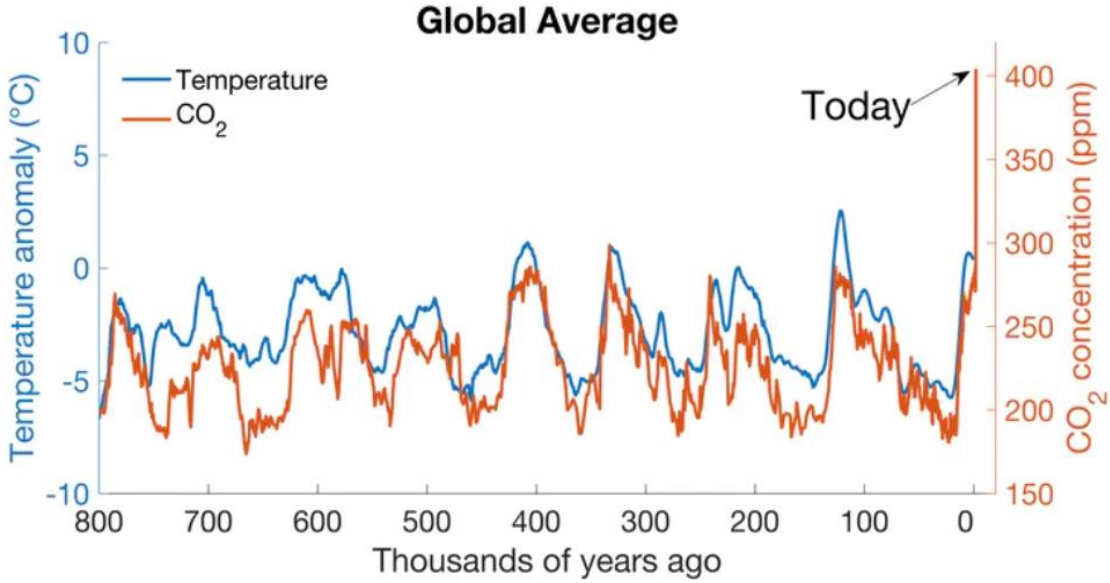

Fig. 1: Global average temperature difference (blue) and atmospheric concentration of CO_2 (orange) over the last 800,000 years. Low periods are ice ages, whilst high periods are interglacials; Only about 5°C separates the two. Plot from Henley and Abram (2017).

[7] Henley, B. and Abram, N. (2017) https://theconversation.com/the-three-minute-story-of-800-000-years-of-climate-change-with-a-sting-in-the-tail-73368, and data sources and references therein

47) Unabated climate change poses an enormous threat to the environment and peoples of the world, Australia and NT for several reasons that, when taken together, are unique to climate change. Unabated anthropogenic climate change is:

a) **Fundamental** – affecting basic aspects of the physical Earth system, and the ecosystems that depend on it,

b) **Global** – greenhouse gases emitted anywhere in the world affect the whole globe,

c) **Comprehensively Dangerous** – with the potential to disrupt or destroy nearly every ecosystem,

d) **Rapid** – occurring at a speed that precludes many organisms and even whole ecosystems from adapting,

e) **Inertial** – with a delayed response to emissions that `locks in' some measure of climate change greater than that currently experienced,

f) **Compounding** – the effects of climate change do not occur independently, but can occur simultaneously, greatly increasing the negative consequences of extreme events,

g) **Self-reinforcing** – many elements of the Earth System react to warming by releasing greenhouse gases, further accelerating climate change (positive feedback),

h) **Irreversible** – feedbacks may cause the crossing of tipping points, with the potential to irreversibly change ecosystems and processes in the Earth system, including the possibility of cascading to an unimaginably hostile world.

3.1 Climate change is fundamental to the environment

48) Over the last million or so years, the Earth system has travelled on bounded **pathways that connect glacial periods to warmer interglacial periods.** These pathways are not identical, but cycle about every 100,000 years.[8] (See Fig. 2 below.)

[8] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. Proc. Natl. Acad. Sci. (USA) doi:10.1073/pnas.1810141115 and references therein https://www.pnas.org/content/pnas/115/33/8252.full.pdf

49) **The climate changes profoundly during each transition, reshaping the Earth's physical system and the life it supports.** Sea levels can change by 100 m, the fraction of the Earth's surface covered with ice dramatically changes, and different species dominate the biosphere, on land and in the ocean. Yet these **hugely different versions of Earth are separated by only 4 – 6°C of average global temperature**.

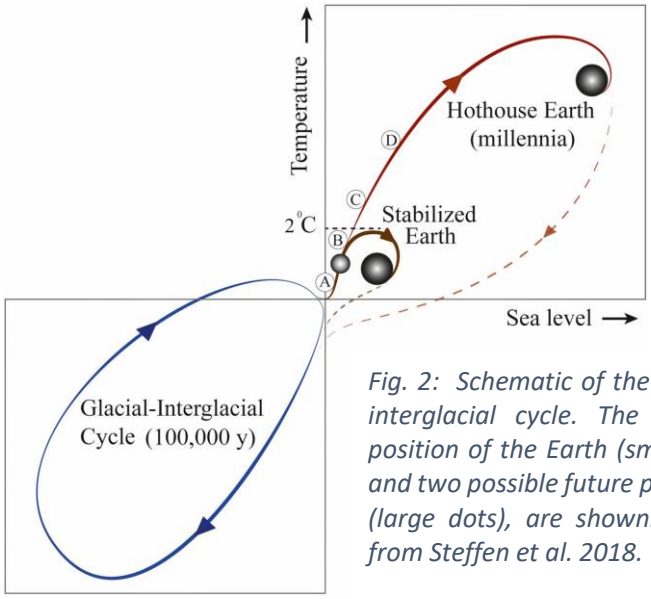

Fig. 2: Schematic of the glacial-interglacial cycle. The current position of the Earth (small dot) and two possible future positions (large dots), are shown. Figure from Steffen et al. 2018.

50) **Anthropogenic GHG emissions are now pushing the Earth System rapidly away from the glacial-interglacial cycle of stability** (see Fig. 2) **toward new, hotter climatic conditions and a profoundly different biosphere.**

3.2 Climate change is global

51) Due to the interconnectivity of the Earth's systems, **GHGs emitted anywhere are distributed throughout the atmosphere, where they contribute to the warming of the planet as a whole**. Thus, **the location, or the identity of the emitter, is of no consequence to the ultimate warming effect**. Australian emissions contribute to climate change impacts everywhere on Earth, and emissions from any location on Earth influence the effects that Australia experiences from climate change. **Humans bear collective responsibility for anthropogenic climate change.**

52) A very large number of small, individual human sources of greenhouse gases combine to form the collective global risk of climate change. **If every source of emissions that is a 'small fraction of the whole' were to be ignored, the problem would persist.**

3.3 Anthropogenic change is comprehensively dangerous

53) **Current levels of greenhouse gases are already dangerous**: ecosystems are degrading and catastrophes due to extreme weather are occurring that can be directly attributed to anthropogenic climate change. Recent IPCC reports[9,10,11] outline the comprehensive nature of the damage already being done by climate change across the whole of Earth's environmental systems, as well as that likely to occur in future if greenhouse gas emissions remain unchecked. Some of these effects are detailed in Section 6.2 of this Report. **Nearly every environmental system on Earth will be affected if global warming increases to 3°C – 4°C**.

3.4 Anthropogenic climate change is rapid

54) The dramatic changes that accompany the switch from a glacial to an interglacial period occur over tens of thousands of years with total temperature changes of about 5°C. **Yet in just 200 years humans have raised the average global temperature to more than 20% of this glacial-interglacial gap**, so that the Earth is now nearing the upper envelope of interglacial conditions over the past 1.2 million years.[12]

55) The speed of this change makes it difficult, or in some cases impossible, for species and ecosystems to adapt. A study of 105,000 species found that even at 1.5°C of warming, 6% of insects, 8% of plants, and 4% of vertebrates are likely to lose over half of their climatically determined geographical area; the percentages *double* for 2°C of warming.[13]

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[9] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

[10] IPCC (2014): Summary for policymakers. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, Field et al. (eds.) Cambridge University Press, pp. 1-32.

[11] IPCC (2022) Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

[12] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. *Proc. Natl. Acad. Sci. (USA)* doi:10.1073/pnas.1810141115 and references therein https://www.pnas.org/content/pnas/115/33/8252.full.pdf

[13] Warren, R., J. Price, E. Graham, N. Forstenhaeusler, and J. VanDerWal (2018): The projected effect on insects, vertebrates, and plants of limiting global warming to 1.5°C rather than 2°C. Science, 360(6390), 791–795, doi:10.1126/science.aar3646.

3.5 Climate change has delayed effects

56) **The full climatic effects of greenhouse gases (especially CO_2) are not felt until long after the time of emission** (see Section 4.1). This means that a few tenths of a degree of additional warming above the present 1.1°C – 1.2°C are already locked as inertia in the Earth system responds to greenhouse gases that have already been emitted.[14]

57) This, together with natural variability, means that **even with rapid reductions of about 5% per year (relative to the year previous) beginning in 2021, a drop in global average temperatures may not be reliably measured until about 2050**.[15] This is an example of how global emission decisions made in the period 1990 to 2020 have a delayed effect.

58) The amount of climate change expected in the next decade is similar under all plausible global emissions scenarios. However, by the mid-21st century, higher ongoing emissions of greenhouse gases will lead to greater warming and associated impacts, while reducing emissions will lead to less warming and fewer impacts.[16] **The lag between the full effects of emissions and the global warming they cause means that what we do this year has consequences for every year hereafter into the foreseeable future**.

3.6 Climate change is compounding

59) **The effects of climate change often compound one another**, acting to amplify deleterious effects. This includes instances where **multiple destructive events or elements occur at the same time or in close succession, exacerbating one another such that the overall impact is worse than if each had occurred in isolation.**[17,18]

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[14] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. See their Fig. 1.5. Accessed at: http://ipcc.ch/report/sr15/

[15] Samset, BH, Fuglestvedt, JS and Lund, MT (2020) Delayed emergence of a global temperature response after emission mitigation. *Nature Communications,* 11, 3261, https://doi.org/10.1038/s41467-020-17001-1 (and references therein)

[16] CSIRO/BOM (2020) State of the Climate 2020. http://www.bom.gov.au/state-of-the-climate/

[17] Steffen, W. and Bradshaw, S. (2021) Hitting Home: The Compounding Costs of Climate Inaction, and references cited therein. Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/hitting-home-compounding-costs-climate-inaction

[18] IPCC (2022) Summary for Policy Makers, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

60) For example, tropical storms are damaging not only due to high winds, but also due to accompanying storm surge caused by rising sea levels and a warming, wetter atmosphere. This can then cause coastal erosion and flooding with different and longer lasting consequences.

61) Another example is the drivers of interannual climate variability over southeast Australia, which do not operate independently of each other. This increases the chance of compounding effects on fire risk.[19] Further, pre-existing drought conditions and heatwaves often occur simultaneously with high fire danger days. This 'triple whammy' effect has severe implications not only for the landscape and the ecosystems it supports, but also for humans working outside, on the land, and combating fires.

3.7 Climate change can be self-reinforcing

62) In some cases, the response of an Earth subsystem can enhance (or diminish) the effect of global warming itself. The physical, chemical and biological processes that cause these effects are called *feedbacks*.

63) ***Negative feedbacks*** **are those that act in the opposite sense of warming to restore Earth back to its original stability**. Examples include: the physics of (black body) radiation that increases the amount of outgoing radiation into space as the Earth warms, and the larger uptake of carbon by land forests and oceans as the Earth warms. Detailed climate models include these effects. Some negative feedback processes, such as the uptake of carbon by forests, are losing strength, increasing the **risk that self-reinforcing mechanisms will counter efforts to mitigate further climate change, and instead accelerate it**.[20,21]

[19] Abram, N.J., et al. (2021) Connections of climate change and variability to large and extreme forest fires in southeast Australia, Communications Earth & Environment 2:8, https://doi.org/10.1038/s43247-020-00065-8

[20] Raupach MR, et al. (2014) The declining uptake rate of atmospheric CO2 by land and ocean sinks. Biogeosciences 11:3453–3475.

[21] WMO 2019, United in Science, Report prepared for the UN Climate Action Summit 2019, https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf

64) ***Positive feedbacks*** **are self-reinforcing mechanisms that act to enhance warming to push Earth away from its previous (cooler) stability state.** A few examples that are already underway include:[22]

a) dieback of the Amazon and Boreal forests due to global warming, which decreases their ability to act as carbon sinks, and releases their stored CO_2 into the atmosphere,

b) thawing of frozen permafrost soil due to warming, which releases CO_2 and/or CH_4, depending on local conditions,

c) reduced spring snow cover in the Northern Hemisphere and loss of summer sea-ice in the Antarctic and Arctic, and long-term loss of polar ice sheets, which reduces the amount of sunlight reflected back into space, as well as allowing land ice to more easily escape to the sea, increasing sea levels.

65) The combined effect of all climate feedback processes is net positive, that is, acting to amplify the climate response.[23]

3.8 Some climate changes are irreversible

66) According to the AR6 WGI, "**Many changes due to past and future greenhouse gas emissions are irreversible for centuries to millennia, especially changes in the ocean, ice sheets and global sea level."**[24] Specifically, the AR6 WGI lists the following:

a) Changes in global ocean temperature (*very high confidence*), deep ocean acidification (*very high confidence*) and deoxygenation (*medium confidence*) are irreversible on centennial to millennial time scales.

b) Mountain and polar glaciers are committed to continue melting for decades or centuries (*very high confidence*).

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[22] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. Proc. Natl. Acad. Sci. (USA) doi:10.1073/pnas.1810141115 and associated Appendix https://www.pnas.org/content/pnas/115/33/8252.full.pdf

[23] Arias, PA et al. (2021) Technical Summary Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#FullReport

[24] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

c) Loss of permafrost carbon following permafrost thaw is irreversible at centennial timescales (*high confidence*).

d) It is *virtually certain* that global mean sea level will continue to rise over the 21st Century. In the longer term, sea level is committed to rise for centuries to millennia due to continuing deep-ocean warming and ice-sheet melt, and will remain elevated for thousands of years (*high confidence*).

67) AR6 WGII details how **these irreversible effects in Earth's physical systems are already having irreversible impacts on Earth's biological, environmental and human systems, with more irreversible impacts expected, depending on the amount of further global warming.** Specifically, ARC WGII states that: [25]

a) Climate change has caused substantial damages, and increasingly irreversible losses, in terrestrial, freshwater and coastal and open ocean marine ecosystems (*high confidence*).

b) The extent and magnitude of climate change impacts are larger than estimated in previous assessments (*high confidence*).

c) Widespread deterioration of ecosystem structure and function, resilience and natural adaptive capacity, as well as shifts in seasonal timing have occurred due to climate change (*high confidence*), with adverse socioeconomic consequences (*high confidence*).

d) Approximately half of the species assessed globally have shifted polewards or, on land, also to higher elevations (*very high confidence*).

e) Hundreds of local losses of species have been driven by increases in the magnitude of heat extremes (*high confidence*), as well as mass mortality events on land and in the ocean (*very high confidence*) and loss of kelp forests (*high confidence*).

f) Some losses are already irreversible, such as the first species extinctions driven by climate change (*medium confidence*). Other impacts are approaching irreversibility,

[25] IPCC (2022) Summary for Policy Makers, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

such as the impacts of hydrological changes resulting from the retreat of glaciers, or the changes in some mountain (*medium confidence*) and Arctic ecosystems driven by permafrost thaw (*high confidence*).

3.9 Crossing climate tipping points could lead to a cascade to a `Hothouse Earth'

68) The **most devastating risk of continued global warming is that some of Earth's subsystems** (e.g., Arctic sea ice, ocean circulation, the Amazon rainforest, or coral reefs, for example) **will become unstable and `tip' irreversibly into new states that accelerate the effects of climate change**. Some of these subsystems are already showing signs of becoming unstable, with 'tipping points' that could lie on our current trajectory of global warming rising to 2°C, 3°C or 4°C above pre-industrial temperatures.[26,27]

69) *Tipping points*[28] in the Earth System refer to thresholds that, if crossed, would lead to far-reaching, and in some cases, abrupt and/or irreversible changes in subsystems (called tipping elements). **The nature of tipping points is that they are irreversible on timescales associated with natural variability in the Earth System**.

70) **Recent research indicates that tipping point risks are now much higher than earlier estimates**. Over **half of previously identified**[29] **tipping elements are now 'active,'** that is, they are moving in the direction that could cause irreversible change (see Fig. 3 below).[30]

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[26] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. Proc. Natl. Acad. Sci. (USA) doi:10.1073/pnas.1810141115 and associated Appendix, accessed at: https://www.pnas.org/content/pnas/115/33/8252.full.pdf

[27] Lenton, T. M., Rockström, J., Gaffney, O., Rahmstorf, S., Richardson, K, Steffen, W. & Schellnhuber, H.J. (2019) Nature, vol 575, pp 592 – 595.

[28] Schellnhuber HJ, Rahmstorf S, Winkelmann R (2016) Why the right climate target was agreed in Paris. *Nature Climate Change*, 6:649-653

[29] Lenton, T.M. et al. (2008) Tipping elements in the Earth's climate system. In PNAS, 105(6), p1786-1793. Accessed from: https://www.pnas.org/content/105/6/1786

[30] Lenton, T.M. et al. (2019) Climate tipping points — too risky to bet against. Nature, 2019; 575 (7784): 592. Accessed at: https://www.nature.com/articles/d41586-019-03595-0

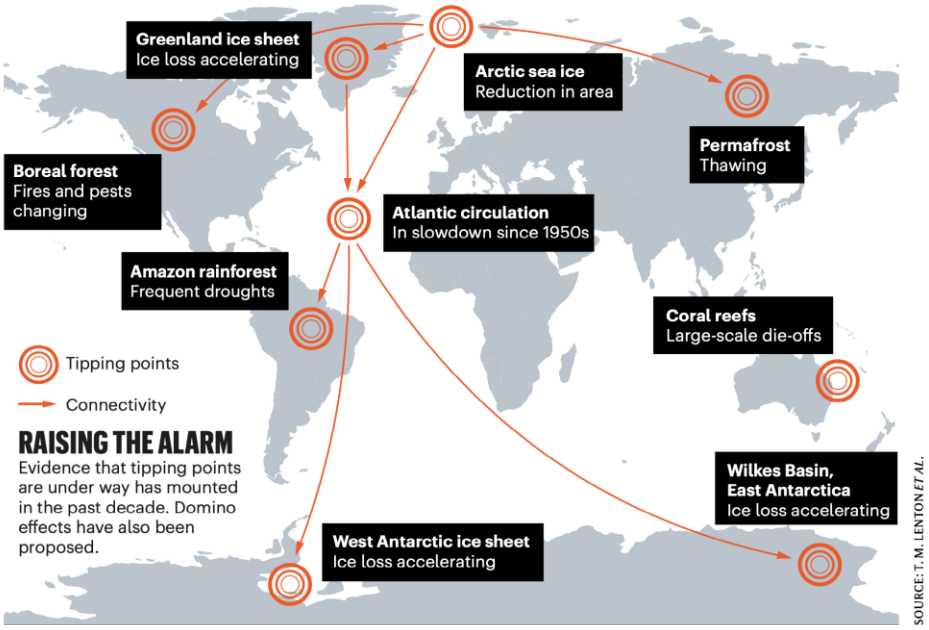

Fig. 3: Tipping elements that are currently changing, and their interactions with one another. (Figure from Lenton et al. 2019).

71) The recent AR6 WGI Report states: "**Abrupt responses and tipping points of the climate system, such as strongly increased Antarctic ice-sheet melt and forest dieback, cannot be ruled out (*high confidence*).**"[31]

72) **The Amazon rainforest**, historically a substantial carbon sink, is observed to have lost resilience to changes in climate and deforestation for the past 20 years, and **may now be headed toward a tipping point of permanent dieback that would accelerate warming**.[32]

73) **Permafrost peatlands in Europe and Western Siberia are very close to a (melting) tipping point that they will soon cross unless rapid and strong action is taken to reduce GHG emissions.[33]**

74) **One of the most significant tipping elements is the Atlantic Meridional Overturning Circulation (AMOC),**[34] a complex of deep and surface currents in the Atlantic Ocean that

[31] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[32] Boulton, C.A., Lenton, T.M. & Boers, T. (2022) Pronounced loss of Amazon rainforest resilience since the early 2000s, in Nature Climate Change, https://doi.org/10.1038/s41558-022-01287-8

[33] Fewster, R.E. et al. (2022) Imminent loss of climate space for permafrost peatlands in Europe and Western Siberia, in Nature Climate Change, https://www.nature.com/articles/s41558-022-01296-7

[34] NB: The Gulf Stream is part of AMOC.

is responsible for considerable heat exchange between the oceans and the atmosphere. **The AMOC appears to be at its weakest point (that is, the circulation and heat exchange responses are at their slowest) in the past 1000 years**.[35]

75) **Whilst there is *medium confidence* that there will not be an abrupt AMOC collapse before 2100, if such a collapse were to occur, it would *very likely* cause abrupt shifts in regional weather patterns and water cycle**, such as a southward shift in the tropical rain belt, weakening of the African and Asian monsoons and strengthening of Southern Hemisphere monsoons, and drying in Europe.[36]

76) **Continued warming increases the risk** that crossing tipping points will cause subsystems of the Earth to rapidly collapse, one initiating another, to create **a cascade of transformations that result in what has been dubbed a 'Hothouse Earth'.** [37] In this future, **average temperatures would rise to match those not seen since the beginning of the Stone Age, millions of years ago, with devastating consequences**. If such a cascade in a domino effect were to occur, the result would be an unrecognisable landscape for current ecosystems and human civilisation.

77) It is **uncertain precisely where this 'Hothouse' threshold may lie, but it could be as close as a few decades away, that is, at or just beyond 2°C of warming.**[38]

78) On the basis of the foregoing, it is reasonable to state that unabated climate change is the greatest threat to the environment and people of the Northern Territory.

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[35] Caesar, L., et al. (2021) Current Atlantic Meridional Overturning Circulation weakest in last millennium. Nat. Geosci. 14**,** 118–120 https://doi.org/10.1038/s41561-021-00699-z

[36] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[37] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. Proc. Natl. Acad. Sci. (USA) doi:10.1073/pnas.1810141115 and associated Appendix https://www.pnas.org/content/pnas/115/33/8252.full.pdf

[38] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. Proc. Natl. Acad. Sci. (USA) doi:10.1073/pnas.1810141115 and associated Appendix https://www.pnas.org/content/pnas/115/33/8252.full.pdf

4 Greenhouse Gas Emissions and Climate Change

79) This section is a brief review of greenhouse gases (GHGs) and their role in human-induced climate change.

4.1 Increases in greenhouse gases drive global warming

80) GHGs trap energy that would otherwise escape from the Earth's upper atmosphere; they have kept the Earth's surface at temperatures suitable for modern human civilisation and agriculture for thousands of years.

81) Since industrialisation, however, and in particular over the last 70 years, **human activities have upset this long-standing balance, by increasing the amount of GHGs in the atmosphere.** The additional GHGs caused by human activity create an energy imbalance. **Extra energy is returned to the Earth's surface, causing the global warming that fuels changes in the global climate.**

82) The primary GHGs driving current human-caused climate change are **carbon dioxide (CO_2)**, **methane (CH_4)**, and **nitrous oxide (N_2O)**. These gases differ in their concentration in the atmosphere, residence time in the atmosphere, and potential to cause a given amount of warming per weight. Of these, **atmospheric concentration is the only property of GHGs that can be significantly influenced by humans**.

83) Excess amounts of CH_4 and N_2O persist in the atmosphere for about 12 and 109 years, respectively.[39] The life cycle of atmospheric CO_2 is more complex. **Most of the carbon dioxide that is not absorbed quickly by ocean and land 'sinks' will remain in the atmosphere for thousands of years or longer.**[40] This is the primary reason why **most long term global warming is caused by increases in the amount of CO_2 in the atmosphere**.

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[39] Forster P., T. et al. (2021) The Earth's energy budget, climate feedbacks, and climate sensitivity, Chapter & of Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, Table 7.15, accessed at: https://www.ipcc.ch/report/sixth-assessment-report-working-group-i/

[40] Lee, J.Y. et al. (2021) Future Global Climate: Scenario-Based Projections and Near-Term Information, Chapter 4 of Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/sixth-assessment-report-working-group-i/

84) Due to their different chemical properties and residency times in the atmosphere, GHGs have different global warming potentials (GWPs), that is, per kilogram they differ in the amount of heat they trap over a given period of time after they are emitted. **Over a 20-year period, fossil methane[41] is 82.5 times more effective than CO_2 in trapping heat, and 29.8 times more effective over 100 years. Nitrous oxide has a global warming potential about 273 times that of CO_2 on timescales of 20 to 100 years**.[42]

85) **In order to describe the warming effect of a given GHG over a particular period of time compared to CO_2, its `carbon dioxide equivalent ($CO_2$-e)' can be calculated using its GWP**. For example, over 100 years, 17 tonnes of fossil $CH_4$ can be accounted as 17 x 29.8 = 506.6 tonnes of $CO_2$-e. This `equivalence' only applies to the time frame of the GWP.

86) Whilst GHGs remain in the atmosphere, they continue to contribute to global warming, year after year, regardless of when they were emitted. This means that **the full effect of past GHG emissions is yet to be felt**, as the Earth continues to warm under the influence of historical emissions (particularly CO_2) as well as those emitted in the current year.

87) **Atmospheric concentrations of CO_2, CH_4 and N_2O have risen since the industrial revolution, with dramatic upward increases of CO_2 beginning around 1960** (Fig. 4).[43]

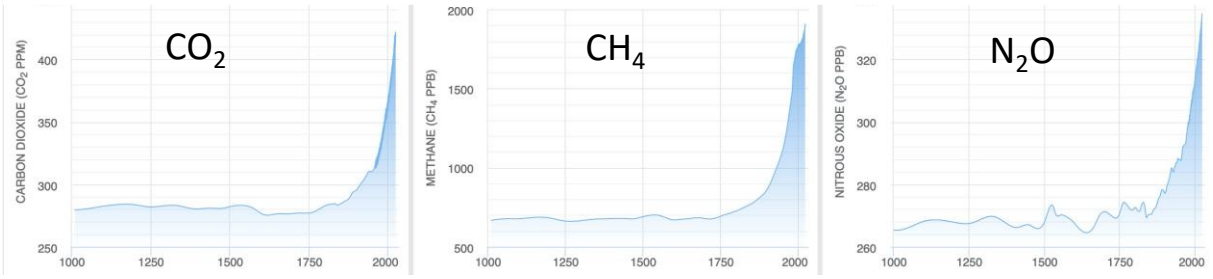

Fig. 4: The rise of GHGs in the atmosphere from 1000AD to present. Graph prepared by the Two Degree Institute, based on ice core records (CSIRO) and in situ measurements (Scripps).

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[41] Note: Fossil methane has a higher GWP than other sources of CH_4 because it results in fossil carbon added to the atmosphere, which was not previously part of the carbon cycle of the atmosphere. The GWPs for *non-fossil* CH_4 is 80.8 and 27.2 on 20 and 100-year timescales, respectively.

[42] Forster P., T. et al. (2021) The Earth's energy budget, climate feedbacks, and climate sensitivity, Chapter 7 of Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, Table 7.15, accessed at: https://www.ipcc.ch/report/sixth-assessment-report-working-group-i/

[43] 2 Degrees Institute (2020) Accessed at: https://www.climatelevels.org/

88) Current levels of CO_2, CH_4 and N_2O in the atmosphere are about 147%, 256% and 123%, respectively, of their pre-industrial levels around 1750.[44]

89) **The rate at which atmospheric concentrations of the main GHGs is increasing is *itself* increasing**, as illustrated in Fig. 5 at right.[45]

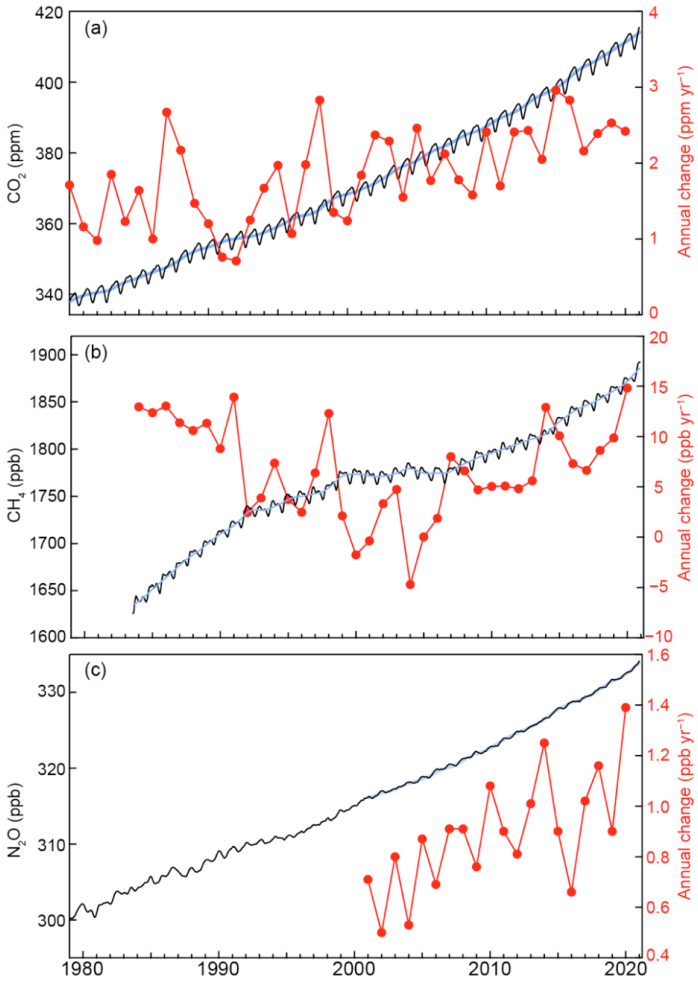

Fig. 5: Dark lines: Increases in the atmospheric concentration of CO_2, CH_4 and N_2O from 1980 to 2020. Note that the vertical scales do not start at zero. Red lines: Increases in each year compared to the previous year.

This is Figure 2.50 of Blunden and Boyer (2020).

90) The **current level of atmospheric CO_2 is** about 415 parts per million (ppm), **25% higher than any other time since the mid-Pliocene, about 2 million years ago**,[46] and **concentrations of CH_4 and N_2O are higher than at any time in at least 800,000 years**.[47] See Fig. 6 below.

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[44] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[45] Blunden, J. and T. Boyer, eds. (2020) State of the Climate in 2020 in *Bull. Amer. Meteor. Soc.*, 102 (8), Si–S475, https://doi.org/10.1175/2021BAMSStateoftheClimate.1

[46] Fedorov, A.V. et al (2013) Patterns and mechanisms of early Pliocene warmth, in Nature, 496, doi:10.1038/nature12003.

[47] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

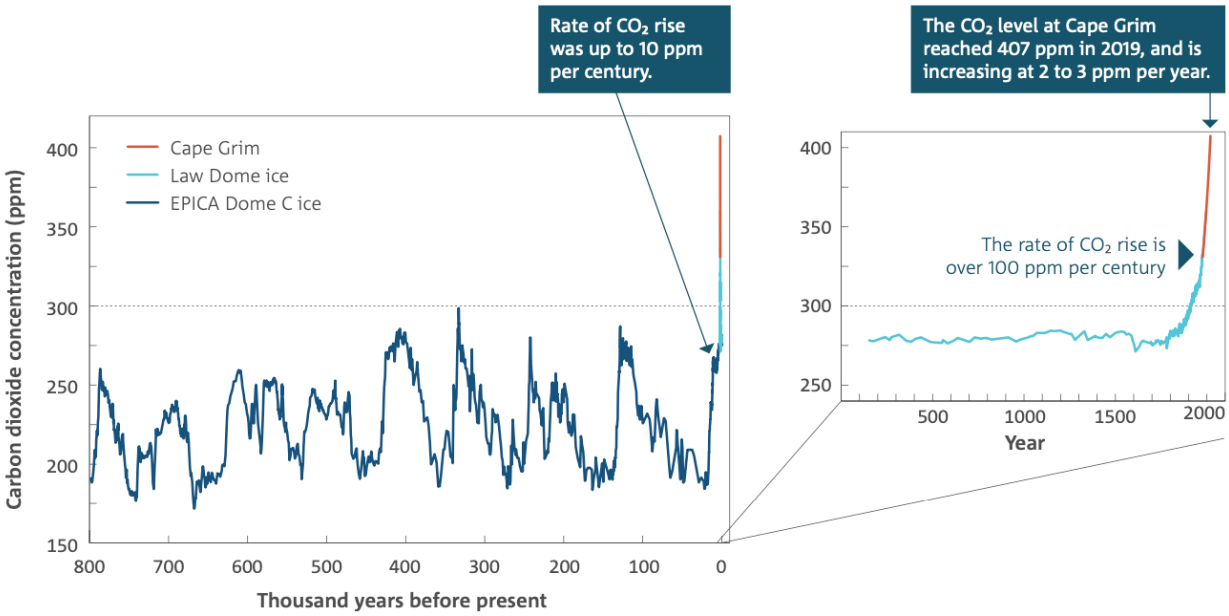

Fig. 6: Current increases in atmospheric CO_2 compared to last 800,000 years. Figure from CSIRO/BOM (2020).

91) For perspective, the species *Homo sapiens* (modern human) is thought to have arisen only 300,000 to 600,000 years ago. In other words, **carbon dioxide levels are higher now than at any other time our species has inhabited the Earth**. (See Fig. 6 above.)[48]

92) **Since 1970, the global average surface temperature has been rising at a rate** of 2.0°C per century,[49,50] **about 200 times faster than the average rate of change** of about 0.01°C per century **for the last 7,000 years**.[51]

4.2 Individual extreme events can be linked directly to global warming

93) All extreme weather events, in fact, **all weather events are affected by climate change**, because the environment in which they occur is warmer, moister and contains more energy than used to be the case.[52] The field of **attribution science is now allowing**

[48] CSIRO/BOM (2020), State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate

[49] NOAA (2016) State of the Climate: Global Analysis for Annual 2015. National Centers for Environmental Information, available at http://www.ncdc.noaa.gov/sotc/global/201513

[50] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

[51] Marcott SA, Shakun JD, Clark PU, Mix A (2013) A reconstruction of regional and global temperature for the past 11,300 years. *Science* 339:1198-1201

[52] Trenberth, K. E. (2012), Framing the way to relate climate extremes to climate change, Climate Change, 115(2), 283–290, doi:10.1007/s10584-012-0441-5

scientists to quantity the effect of climate change on many extreme events and the consequences of anthropogenic climate change more generally. Just a few examples are listed below.

94) Of the 131 studies investigating whether climate change is influencing extreme weather published in the Bulletin of the American Meteorological Society between 2011 and 2016, **65 percent found that the probability of the event occurring was increased due to anthropogenic climate change**. **In the case of some extreme high temperatures, the probability increased by a factor of ten or more**.[53]

95) **The widespread coral bleaching of the Great Barrier Reef during 2016 was made 175 times more likely due to climate change**.[54]

96) **Hurricane Harvey** caused deaths, extreme rainfall, catastrophic flooding and economic losses estimated at 215 billion in 2017 USD. Attribution studies have found that the amount of **rainfall** associated with the hurricane system **was increased three-fold by human-induced climate change**.[55]

97) According to the United Kingdom (UK) Met Office,[56] **human-induced climate change has made the 2018 record-breaking UK summer temperatures about 30 times more likely** than they would naturally occur.

98) The **2020 Siberian heatwave would have been "almost impossible" without human-induced climate change**, as it was made at least 600 times more likely as a result of human-induced climate change.[57]

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[53] WMO (2018) July sees extreme weather with high impacts. Accessed at: https://public.wmo.int/en/media/news/july-sees-extreme-weather-high-impacts
[54] King A, Karoly D, Black M, Hoegh-Guldberg O, and Perkins-Kirkpatrick S (2016) Great Barrier Reef bleaching would be almost impossible without climate change. The Conversation, April 29, 2016.
[55] IPCC (2022) Chapter 4, Water, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/
[56] UK Met Office (2018) 2018 UK summer heatwave made thirty times more likely due to climate change. Accessed at https://www.metoffice.gov.uk/about-us/press-office/news/weather-and-climate/2018/2018-uk-summer-heatwave
[57] Ciavarella, A. et al. (2020) Prolonged Siberian Heat of 2020. *World Weather Attribution.* https://www.worldweatherattribution.org/siberian-heatwave-of-2020-almost-impossible-without-climate-change

99) **The 2019-2020 Australian bushfires were made 30 – 80% more likely due to anthropogenic climate change**.[58]

100) A recent meta-analysis[59] of 27 studies concerning a total of 976 species found that **47% of local extinctions reported across the globe during last century could be attributed to climate change**.

101) **Of more than 4,000 species** examined in studies that assessed attribution, about **half had shifted their geographical locations** poleward or to higher altitude **due to human-induced climate change**.[60]

102) In the period 1991–2018, **37% of warm-season, heat-related human deaths have been attributed to anthropogenic climate change**.[61]

103) Based on observations and modelling, the **heatwave in the Pacific Northwest of Canada and the US** has been found to be **"virtually impossible" without human-caused climate change**; climate change made the event about 150 times more likely.[62]

4.3 Humans are the cause of essentially all currently observed global warming

104) ***Anthropogenic* climate change is change in the Earth's climate caused by *human activities* that release additional greenhouse gases (GHGs) into the atmosphere or alter the natural land and ocean sinks for these gases**.

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[58] Oldenborgh, G.J. et al. (2021) Attribution of the Australian bushfire risk to anthropogenic climate change, Natural Hazards and Earth System Sciences, 21, 941. Accessed at: https://doi.org/10.5194/nhess-21-941-2021

[59] Wiens, J.J., 2016: Climate-Related Local Extinctions Are Already Widespread among Plant and Animal Species. PLOS Biology, 14(12), e2001104, doi:10.1371/journal.pbio.2001104.

[60] IPCC (2022) Chapter 2, Terrestrial and Freshwater Ecosystems and their Services, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

[61] Vicedo-Cabrera, A.M. et al. (2021) The burden of heat-related mortality attributable to recent human-induced climate change. Nature Climate Change, 11, 492-500. Accessed at: https://www.nature.com/articles/s41558-021-01058-x

[62] Phillip, S.Y. et al. (2021) Rapid attribution analysis of the extraordinary heatwave on the Pacific Coast of the US and Canada June 2021, Earth System Dynamics, Accessed at: https://esd.copernicus.org/preprints/esd-2021-90/

105) **Nearly all of the warming experienced in past 160 years is due to human activities**, with natural forces (volcanos, changes in solar radiation, etc) playing a negligible role.[63]

106) The AR6 WGI[64] makes clear the direct relationship between humans and the global warming driving climate change (my emphasis):

a) "It is **unequivocal that human influence has warmed the atmosphere, ocean and land**" and

b) "**Human influence has warmed the climate at a rate that is unprecedented in at least the last 2000 years**" and

c) "**Observed warming is driven by emissions from human activities**, with greenhouse gas warming partly masked by aerosol cooling."

107) **Reducing net anthropogenic GHG emissions to zero and maintaining them at that level is the only way that humans can stabilise the climate. The primary determinant of future climate change, beyond that which is already locked in by emissions to date, is the future trajectory of world emissions, especially the path between now and 2030**.[65] The more quickly emissions are brought and held to zero, the lower the peak global warming temperature will be.

4.4 Human greenhouse gas emissions come primarily from fossil fuels

108) **At present, about 90% of the additional CO_2 emitted per year is from the burning of coal, gas, and oil**,[66] with most of the remainder due to land use changes (e.g., deforestation which removes a natural sink for CO_2).

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[63] Gillett, N.P. et al. (2021) Constraining human contributions to observed warming since the pre-industrial period, in Nature Climate Change, https://doi.org/10.1038/s41558-020-00965-9
[64] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM
[65] WMO (2019) United in Science, Report prepared for the UN Climate Action Summit 2019, https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf
[66] Friedlingstein, P et al. (2021) Global Carbon Budget 2021, Earth Syst. Sci. Data. See their Table 6, https://essd.copernicus.org/preprints/essd-2021-386/

109) **Human CO_2 emissions from fossil fuel use continue to rise,** although at a smaller rate than in the first decade of this century.[67] (See Fig. 7.)[68]

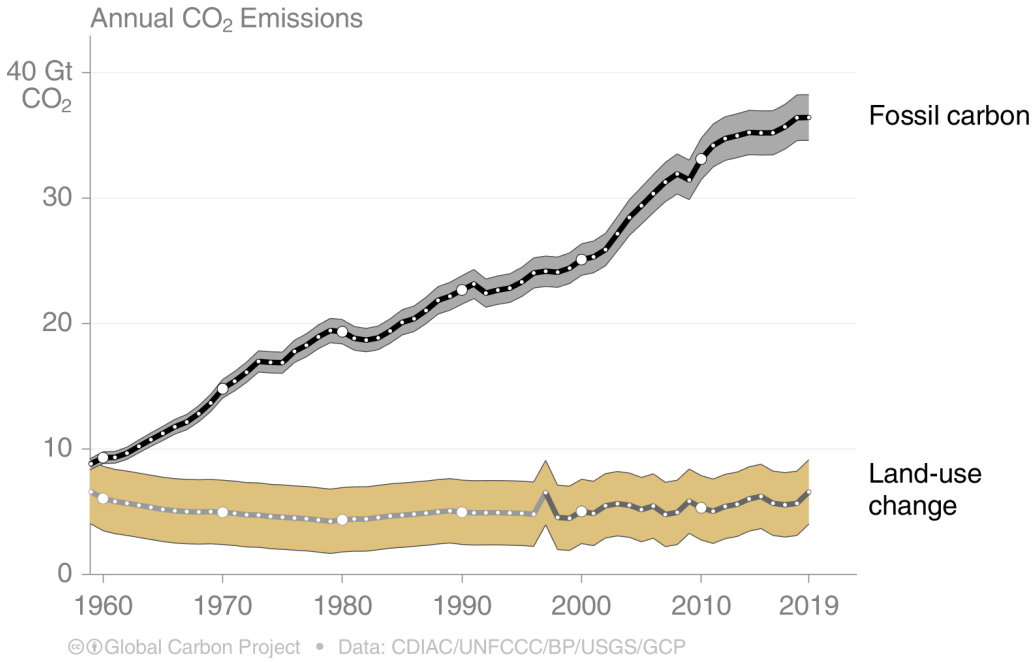

Fig. 7: Global human emissions from fossil sources continue to grow, whilst those from land-use changes (primarily deforestation) have remained relatively constant. Combined, humans emitted about 42 billion tonnes (Gt) of CO_2 into the atmosphere in 2019. Data from Friedlingstein et al (2020).

110) The growing trend in emissions continues: **year-on-year CO_2 emissions from fossil fuels are now more than 300% of 1960s levels.**[69]

111) The production, delivery and combustion of **fossil fuels is also associated with the release of CH_4.**[70] **A recent surge in atmospheric methane over the past decade is attributed in equal parts to agriculture (particularly livestock) and fossil fuels**.[71]

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[67] Friedlingstein, P et al. (2020) Global Carbon Budget 2020, Earth Syst. Sci. Data, 12, 3269-3340. https://doi.org/10.5194/essd-12-3269-2020

[68] Figure is from the Global Carbon Project (2020), Accessed at : https://www.globalcarbonproject.org/carbonbudget/20/presentation.htm

[69] Friedlingstein, P et al. (2019) Global Carbon Budget 2019, Earth Syst. Sci. Data, 11, 1783–1838, See their Table 6, https://doi.org/10.5194/essd-11-1783-2019

[70] WMO 2019, United in Science, Report prepared for the UN Climate Action Summit 2019, https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf

[71] Jackson, RB et al. (2020) Increasing anthropogenic methane emissions arise equally from agricultural and fossil fuel sources, Environ. Res. Lett., 15, 071002, https://doi.org/10.1088/1748-9326/ab9ed2

5 Greenhouse Gas Emissions from the Project

112) In this section, the expected Project GHG emissions are set out as presented in the Project's EMP,[72] followed by my analysis and discussion.

113) According to the EMP (in its section 4.20):

a) The anticipated well test emissions associated with the proposed activities cover emissions from construction, drilling, stimulation and well testing of 12 E&A wells over a 4-year period.

b) The estimates assume that each well is successful (flows hydrocarbons) and observed rates are of commercial quantities. These emissions rates are estimated to be between 363,738 to 535,651 tCO_2-e over the 2023 to 2026 period, peaking at 172,799 tCO_2-e in FY 2023-2024.

c) Over 90% of the anticipated emissions are associated with flaring of the hydrocarbons (predominately CH_4) during testing.

114) Origin's assessment of GHG emissions from the Project are summarised in Table 24 of its EMP for three scenarios, which has been electronically copied to become Fig. 8 (below).

Emission scenario	FY23	FY 24	FY 25	FY26	Total	Comments
90-day average well test	35,489	120,147	118,516	89,586	**363,738**	12 total E&A wells with a 90 day well test
135-day average well test	62,059	172,799	171,535	129,258	**535,651**	12 E&A wells with an average well test duration of 135 days
Beneficial use: 24 month well test	15,013	35,703	33,919	26,566	**111,201**	12 E&A wells with appraisal gas used for beneficial use

Fig. 8: Origin estimates (copy of EMP Table 24) of Project GHG emissions over the fiscal years in which Origin is seeking consent for exploration activities, for three different scenarios. Values are tonnes of CO_2-e. ***These totals do not agree with the actual correct totals of the columns in EMP Table 25.***

[72] EMP NT-2050-15-MP-0088 (10 July 2022) Accessed at: https://depws.nt.gov.au/onshore-gas/environment-management-plan/origin-energy-b2-pty-ltd-environment-management-plan-for-the-amungee-nw-delineation-program

115) The GHG values provided in the EMP result from a breakdown of GHGs expected from individual activities associated with the Project, which are detailed in Table 25 of the EMP. It is beyond the scope of this Report to validate all the detailed estimates that feed into the summary GHG figures provided by Origin.

116) **Comparison of the summary EMP GHG data** (Table 24 of the EMP) **and the more detailed activity GHG data** (Table 25 of the EMP) **from which the former were presumably derived, reveal a discrepancy**. Although the `totals' columns of the two tables appear to agree, in fact the true totals of the columns in Table 25 do not accord with the totals at the end of that table, as can be easily verified. The 90-day well test agrees, the other two scenarios have larger column totals than appear in the EMP. As I can see no obvious explanation for this discrepancy, I will use **the true arithmetic totals** for the columns in EMP Table 25 for the remainder of this Report. These **are provided in Table 2 of this Report, which I will use in everything that follows.**

Table 2: Correct numerical totals of GHG emissions from three scenarios constructed by Origin as presented in EMP Table 25 (see paragraph 116)

Emission Scenario	Total direct (Scope 1 for the facility) emissions (tonnes CO_2-e)
90-day average well test	376,782
135-day average well test	548,878
Beneficial use: 24-month well test	124,408

5.1 Origin's `Beneficial use' 24-month well test scenario

117) The third emissions scenario presented in the EMP, labelled `**Beneficial use' 24-month scenario**, would be beneficial to Origin in that it would reduce the emissions it is required to report and result in substantial product that it could sell. However, as I describe below, the scenario **is not beneficial to the NT or Australia, where considerably more emissions would be produced** as a result, **and climate change** for the Territory and the country would be **worsened**.

118) First, I note that the **24-month well test scenario including the sale of gas to third parties is neither supported by current NT legislation nor justified as a bona fide exploration necessity in the EMP** beyond the statement that it would "*increase the understanding of the technical viability of the resource and allow an optimised*

development concept." In fact, Table 26 of **the EMP describes the 135-day average well-test scenario as ``*the maximum proposed under this EMP*,"** whilst in the text beginning section 4.20.1 of the EMP indicates the 135-day scenario as the **``*worst case*.''** Despite this, the putative `Beneficial use: 24-month well test' scenario is repeatedly referred to throughout the EMP.

119) Second, it is curious that Origin suggests that its proposed 24-month well test scenario would have lower GHG emissions than its 135-day well test, or even its 90-day well test scenario (see Fig. 8). **The purported lower emissions in the `Beneficial use 24-month' scenario derive from the assumption that no emissions will be flared and the lack of accounting for the emissions associated with the use of gas.**

120) I have used Table 25 of the EMP to make a summary table of GHG emissions for the Project, as described by Origin, breaking them down into three broad activity categories:

a) Activities that produce emissions that do not depend on the length of the testing period,

b) Activities that produce emissions that scale with the length of the testing period, and

c) Activities that only apply to the `beneficial use' 24-month scenario.

The results are presented in Table 3 of this Report (below). The table also records the approximate amount of natural gas either flared or put to `beneficial use' in each scenario, using the EMP estimate of 4.5 tera joules (TJ) of gas per day per well.

Table 3: GHG emissions (in tonnes of CO_2-e) and total gas resource flared or used (TJ) for each emission scenario in the EMP

Emission Scenario	Emissions Independent of Length of Testing Period	Emissions scaling with Length of Testing Period		Emissions associated only with `Beneficial Use' scenario	Total Gas Resource Flared or Used
	Diesel for transport, drilling, camp & well stimulation; fugitive emissions; land clearing and site prep	Well testing	Flaring	Gas compression, processing and transmission	
90-day average well test	59,893	976	315,913	0	4,860
135-day average well test	59,893	1,951	487,033	0	7,290
Beneficial use: 24-month well test	59,893	1,951	0	62,563	39,420

121) As Table 3 shows, the GHG emissions resulting from well-testing itself, which depend on the length of time the wells are tested, are identical for the 135-day test scenario and the 24-month (730-day) scenario. This implies that **Origin would not intend to do more well testing in the 24-month scenario than in the 135-day scenario, which is to say that 135 days of testing is sufficient for the exploration activities.**

122) **The only purpose of such the longer, `beneficial use' scenario would then seem to be to produce gas for third party sale, which is not an exploration activity.** In fact, The EMP states that: "*Currently, NT legislation does not allow for the beneficial use of gas during exploration (such as 3rd party sale). This is a similar approach authorised in other jurisdictions in Australia (such as Queensland and Western Australia), which allow the short-term sale of appraisal hydrocarbons to reduce resource flaring*."

123) Table 3 indicates that **the amount of gas that would be produced and sold in the 24-month `beneficial use' scenario would be more than 5 times the amount needed in the maximum case (135-day) for well testing**. That the vast majority of the gas would be sold, rather than used on site is clear considering that most of the energy consumption occurs before the gas begins to flow.

124) Third**, Origin suggests in the EMP that by allowing it to use, and in particular to sell, the `appraisal gas' – contrary to NT legislation – it can reduce fugitive emissions to zero, thereby "*reducing Scope 1 emissions*." The conclusion that Scope 1 emissions from flaring would be reduced by allowing a much longer period of well-activity coupled with sale of extracted gas is, at best, misleading**, as I now discuss.

125) For geographical reporting purposes, GHGs are often accounted in one of three `Scopes,'[73] as follows:

a) **Scope 1**: Emissions released to the atmosphere as a direct result of an *activity, or series of activities at a facility level*. Sometimes referred to as direct emissions.

b) **Scope 2**: Emissions released to the atmosphere from the indirect consumption of an energy commodity.

[73] E.g., see Australian Clean Energy Regulatory (2018) Greenhouse gases and energy, http://www.cleanenergyregulator.gov.au/NGER/About-the-National-Greenhouse-and-Energy-Reporting-scheme/Greenhouse-gases-and-energy

c) **Scope 3**: Indirect greenhouse gas emissions other than Scope 2 emissions that are generated in the wider economy as a consequence of the activities of a facility, but from sources not owned or controlled by that facility's business.

126) **Origin may be able to reduce Scope 1 emissions from its own proposed facility via the 24-month `beneficial use' scenario, but other emissions will be generated as a result of the use (combustion) of the generated gas. If the gas is used at the Origin facility itself, or elsewhere in NT**[74]**, these emissions will be Scope 1 emissions for the Territory**, and as such subject for reporting by NT in the National Greenhouse Gas Inventory (hereafter, NGGI).

127) Vitally, **regardless of where the combustion of the gas produced by the putative 24-month scenario would take place, whether onsite or elsewhere in the NT** (or indeed, anywhere else) **the associated GHG emissions will have the same negative impact on the environment of NT on a tonne per tonne basis.**

128) In order to estimate **the amount of the emissions associated with combustion of the gas in the 24-month well-test**, a conversion must be made from the 39,420 TJ given in Table 3, which is a measurement of embedded energy content, to the amount of GHGs released upon combustion. For this purpose, I use the emission factors given in Table 2 of the National Greenhouse Accounts Factors[75] for the consumption of natural gas distributed in a pipeline, which **yields 2,031,311 tCO_2-e**. The appropriate comparison of the Project scenarios for the NT and its environment, is thus provided in Table 4 of this Report (below).

Table 4: Estimated total emissions from the three Project scenarios, including the emissions associated with the `beneficial use' (combustion) of gas in 24-month scenario

Emission Scenario	Total emissions (tonnes CO_2-e)
90-day average well test	376,782
135-day average well test	548,878
Beneficial use: 24-month well test	2,155,721

[74] Given that the proposed pipeline for such gas (the MacArthur River Pipeline) lies entirely within the NT, it is assumed in this Report that the putative gas would be combusted in the NT.
[75] National Greenhouse Accounts Factors (2021) Table 2 https://www.industry.gov.au/data-and-publications/national-greenhouse-accounts-factors-2021

6 Current Climate Impacts and Possible Climate Change Futures

129) This section describes some of the current and expected future impacts of climate change for the globe, Australia, and the NT in particular. **Future climate impacts depend most critically on fossil fuel emissions this decade and next.**

6.1 Current Climate Change Impacts

6.1.1 Global

130) Average global warming is currently about 1.2°C above pre-industrial levels (Fig. 9).[76] Global surface temperature was 1.09°C higher averaged over the period 2011–2020 than in the period 1850–1900, with larger increases over land (1.59°C) than over the ocean (0.88°C).[77] Given that the rate of global warming averages about 0.2°C per decade,[78] **underlying trends in global warming place the world at about 1.2°C above pre-industrial periods in 2022**, with year-to-year fluctuations. A methodology to generate a real-time global warming index[79] yields a global warming value of more than 1.25°C as of 12 August 2022.[80]

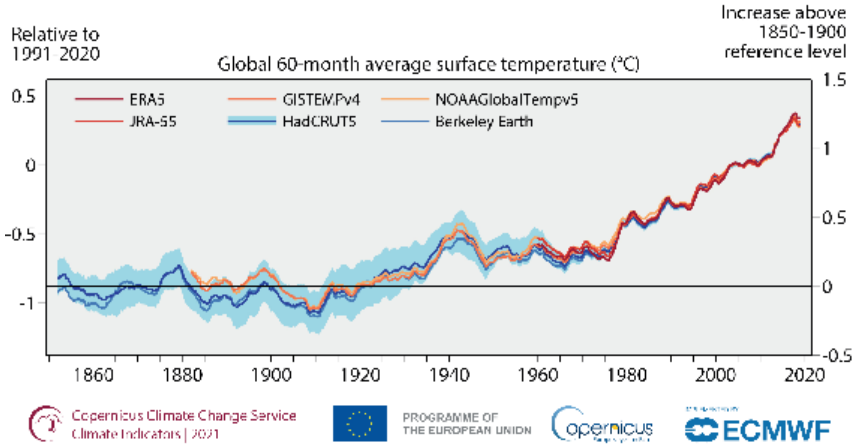

Fig. 9: Global average temperature for 60-month periods, relative to the 1991–2020 average (left axis) and as an increase above the 1850–1900 level (right axis), according to six datasets.

[76] Figure from Copernicus, https://climate.copernicus.eu/climate-indicators/temperature
[77] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM
[78] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/
[79] Haustein, K. et al. (2017) A real-time global warming index. Nature Scientific Reports, 7, 15417, DOI:10.1038/s41598-017-14828-5
[80] https://www.globalwarmingindex.org/ Operated by the Environmental Change Institute at the University of Oxford.

131) Growing GHG concentrations in the atmosphere cause an imbalance between the rate at which energy is absorbed by the Earth and that which is emitted into space. This imbalance has been growing rapidly. **The Earth's energy imbalance is estimated in mid-2019 to be about 2 to 3 times what it was in mid-2005**.[81]

132) Most of this additional energy is absorbed by Earth's oceans, especially in the upper 700m but also as deep as 2km. The rise is dramatic since 1990 (See Fig. 10).

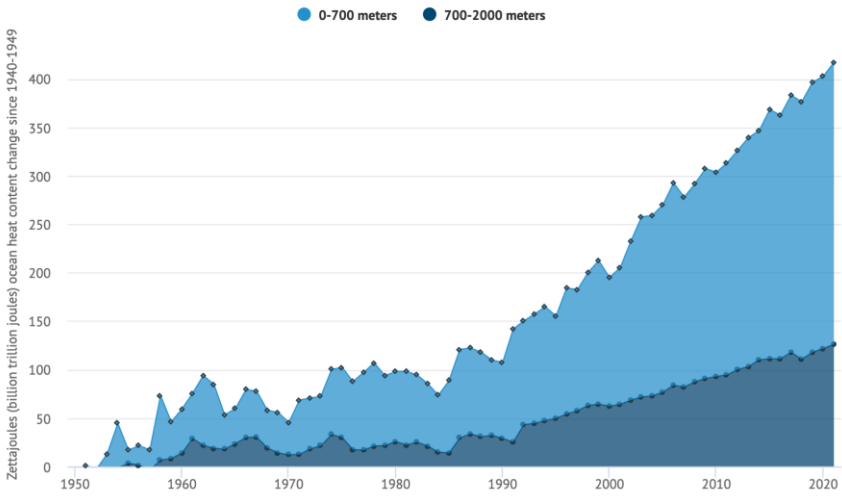

Fig. 10: Annual global ocean heat content (in zettajoules – billion trillion joules, or 10^{21} joules) for layers 0-700 metres (medium blue) and 700-2000 metres (dark blue) beneath the surface. Chart is taken from Carbon Brief (https://www.carbonbrief.org/state-of-the-climate-how-the-world-warmed-in-2021/) based on data from Cheng, et al. 2022, Advanced in Atmospheric Sciences, 39, 373-385.

133) Since the 1980s, each successive decade has been warmer than any preceding decade since 1850.[82] Since 1978, no year has had a global mean temperature below the 1961–1990 average;[83] thus, **no one under the age of 44 has ever experienced a year in which global temperatures were 'below normal' by last century's standards.**

134) At the time of writing, the hottest year on record is 2020, at nearly the same temperature as 2016. Despite 2021 being slightly cooler than previous years due to the

[81] Loeb, N. G., Johnson, G. C., Thorsen, T. J., Lyman, J. M., Rose, F. G., & Kato, S. (2021). Satellite and ocean data reveal marked increase in Earth's heating rate. *Geophysical Research Letters*, *48*, e2021GL093047. Accessed at: https://doi.org/10.1029/2021GL093047

[82] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[83] BOM (2020), Annual Climate Statement 2019, accessed at: http://www.bom.gov.au/climate/current/annual/aus/2019/

cooling effect of La Niña, it is still one of the hottest seven years on record.[84] **In fact, the past seven years have been the hottest seven years on record**.[85]

135) **Current effects of climate change worldwide include**:[86] **increased severity of storms and heat waves, species extinction, wildfires, coastal inundation from rising sea levels and increased storm surge, and an increasing risk of crossing so-called 'tipping points' that would accelerate climate change** and greatly intensify its impacts,[87] **perhaps irreversibly.**

136) Global effects of climate change are already substantial and costly: [88,89]

a) **Accelerating sea-level rise**, with the observed global rate increasing 25% over the last decade, from 3.04 millimetres per year (mm/yr) during the period 1997–2006 to approximately 4 mm/yr in 2007–2016, driven in part by accelerating land ice melt from Greenland and West Antarctica.

b) **Heat waves,** which were **the deadliest meteorological hazard in the last five years**, affect all continents. Between 2000 and 2016, the number of people exposed to heat waves is estimated to have increased by 125 million.

c) **More extreme wildfires,** including the unprecedented wildfires in 2019 in the Arctic and in the Amazon rainforest, in 2020 and 2021 in California, in 2021 in Canada, and in 2019/20 in Australia.

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[84] WMO (2022) Press Release. https://public.wmo.int/en/media/press-release/2021-one-of-seven-warmest-years-record-wmo-consolidated-data-shows

[85] WMO (2021) State of Global Climate 2021, WMO Provisional Report, accessed at: https://library.wmo.int/index.php?lvl=notice_display&id=21982

[86] IPCC (2014): Summary for policymakers. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, Field et al. (eds.) Cambridge University Press, pp. 1-32.

[87] Schellnhuber HJ, Rahmstorf S, Winkelmann R (2016) Why the right climate target was agreed in Paris. *Nature Climate Change*, 6:649-653

[88] WMO (2019) United in Science, Report prepared for the UN Climate Action Summit 2019, https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf

[89] IPCC, SPM (2013) Summary for Policymakers. In: Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, edited by Stocker TF, et al. Cambridge and New York, Cambridge University Press, pp 3-29. https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_SPM_FINAL.pdf

d) **Hotter days and warmer nights** over most land areas. Globally, July 2019 had been listed as the hottest month on record, with July 2020 taking second place.[90] That first-place record has now been eclipsed by July 2021.[91]

e) **Intensification of the hydrological cycle**: that is, increases in the frequency, intensity and amount of heavy precipitation in many areas, and increases in the intensity and duration of drought in other regions.

f) **Ocean acidification**, threatening sea life and destroying entire ecosystems.

g) **Increases in coastal flooding**, caused by more, and more extreme, high sea level events.

137) AR6 WGII describes the current consequences of anthropogenic climate change in clear and stark terms, stating: "**The rise in weather and climate extremes has led to some irreversible impacts as natural and human systems are pushed beyond their ability to adapt**." Specifically, according AR6 WGII,[92] climate change has:

a) "caused substantial damages, and increasingly irreversible losses, in terrestrial, freshwater and coastal and open ocean marine ecosystems,"

b) "reduced food and water security,"

c) "adversely affected physical health of people globally," and

d) contributed to "humanitarian crises where climate hazards interact with high vulnerability."

[90] NOAA (2020), July 2020 was record hot for N. Hemisphere, 2nd hottest for planet**,** https://www.noaa.gov/news/july-2020-was-record-hot-for-n-hemisphere-2nd-hottest-for-planet

[91] NOAA (2021) https://www.noaa.gov/news/its-official-july-2021-was-earths-hottest-month-on-record

[92] IPCC (2022) Summary for Policy Makers, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

138) **In 2020 and 2021 alone** the following extraordinary climate events were recorded,[93,94,95,96] among many others:

a) In both 2020 and 2021, Death Valley in the United States of America (US) reported a temperature of 54.4°C, possibly the **highest temperature ever reliably recorded on Earth**.

b) In South America, **record fires burnt over a quarter of the Pantanal, the world's largest tropical wetlands**, in 2020.

c) **Europe had its warmest year on record**, with 17 countries reporting record average temperatures for 2020. With unprecedented heat waves across Europe this year, this record may be toppled in 2022.

d) The **highest temperature**, 18.3°C, was **recorded in Antarctica in 2020**.

e) In 2021, it rained – rather than snowed – for the first time on record at the peak of the Greenland ice sheet.

f) **A heatwave in Canada** and adjacent parts of the US **pushed temperatures to 49.6°C in 2021 in a village in British Columbia, breaking the previous Canadian national record by 4.6°C**; the town was devastated by fire the next day.

g) In 2020, **Cyclone Gati**, the strongest landfalling cyclone recorded in Somalia, **brought over a year's worth of rain in 24 hours to its city of Bosaso**.

h) In 2020, **wildfires in California displaced 100,000 people from their homes**. The area burnt in California in 2021 is larger than that burnt in 2020,[97] which itself set records for the state.

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[93] Steffen, W. and Bradshaw, S. (2021) Hitting Home: The Compounding Costs of Climate Inaction, and references cited therein. Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/hitting-home-compounding-costs-climate-inaction

[94] Blunden, J. and T. Boyer, eds. (2020) State of the Climate in 2020 in *Bull. Amer. Meteor. Soc.*, 102 (8), Si–S475, https://doi.org/10.1175/2021BAMSStateoftheClimate.1

[95] WMO (2021) State of the Global Climate 2020, Accessed at: https://library.wmo.int/index.php?lvl=notice_display&id=21880#.YOwDJOgzbIV

[96] WMO (2021) State of the Global Climate 2021, WMO Provisional report. Accessed at: https://reliefweb.int/report/world/wmo-provisional-report-state-global-climate-2021

[97] https://www.fire.ca.gov/stats-events/

i) **Super Typhoon Goni was the strongest tropical cyclone to make landfall in the historical record and led to the evacuation of almost 1 million people in the Philippines.**

j) In Siberia, an intense, persistent and widespread heat wave broke temperature records, fuelled large fires, and thawed permafrost. The Russian town of Verkhoyansk recorded **a temperature of 38°C in June 2020, likely the highest temperature ever recorded in the Arctic**.

k) Extreme rainfall hit Henan Province of China in 2021. On 20 July, **the city of Zhengzhou received 201.9mm of rainfall in one hour (a Chinese national record)**, 382mm in 6 hours, and 720 mm for the event as a whole, more than its annual average.

l) The on-going megadrought in southwestern North America has been shown to be the driest 22-year period in that area in more than 1,200 years.[98]

139) **The most dramatic – and previously unthinkable – heatwave ever recorded occurred in March 2022 at both of Earth's poles simultaneously. In the East Antarctic, temperatures were about 40°C warmer than average, whilst parts of the Arctic were nearly 30°C warmer than average**.[99]

6.1.2 Australia

140) Australia is witnessing serious climate-related impacts now. According to the recently released AR6 WGI, all areas of Australia have been assessed at high confidence to already be experiencing an increase in heat extremes due to human-caused climate change.[100]

[98] Park Williams, A., Cook, B. I., and Smerdon, J. E. (2022) Rapid Intensification of the emerging southwestern North American megadrought in 2000-2021, in Nature Climate Change, Accessed at: https://www.nature.com/articles/s41558-022-01290-z

[99] https://www.yahoo.com/news/eastern-antarctica-registers-temperatures-70-173500030.html and sources therein.

[100] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

141) Specifically, the Australian Bureau of Meteorology (BOM) and the CSIRO[101,102,103] report that recent climate trends include:

a) Australia has warmed by 1.44 ± 0.24°C since national recording keeping began in 1910. The seven years 2013 – 2019 all rank in the top nine warmest years on record. **Most years in Australia are now warmer than almost any year in the 20th century (2021 was an exception). Australia's hottest year and driest year on record was 2019**.

b) Increased warming, both daytime and night-time, is observed across Australia in all months, sharply increasing the number of extremely warm days. **There were 43 extremely warm days in 2019, more than triple than in any year prior to 2000**.

c) National daily average maximum temperatures have increased dramatically: **33 days exceeded 39°C in 2019, more than the number observed from 1960 to 2018 combined**, which totalled 24 days.

d) **Very warm day- and night-time temperatures** that occurred only 2% of the time in the past (1960-1989) **now occur five to six times more frequently** (2005-2019). As a result, the frequency of extreme heat events is increasing. (See Fig. 11 below.)[104]

[101] BOM (2020), Annual Climate Statement 2020, accessed at: http://www.bom.gov.au/climate/current/annual/aus/
[102] CSIRO/BOM (2020), State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate
[103] CSIRO/BOM (2021), State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate
[104] CSIRO/BOM (2020), State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate

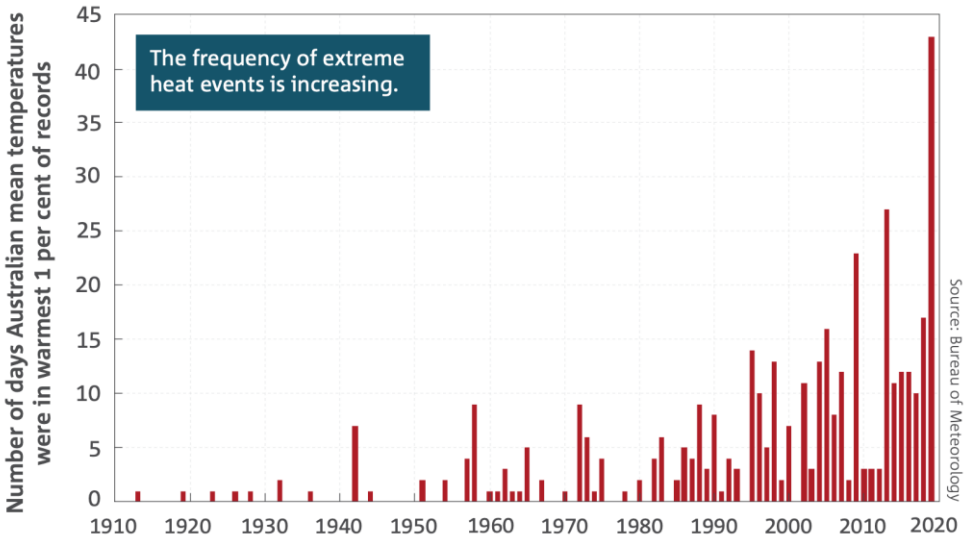

Fig. 11: Number of extreme (top 1%) heat days from 1910 to 2019. Figure from BOM.

e) In December 2019, there were 11 days for which the *national area-averaged* maximum temperature was 40 °C or above[105] (see Fig. 12 below). Only 11 other such days have been recorded since 1910, seven of which occurred in the summer of 2018–19.

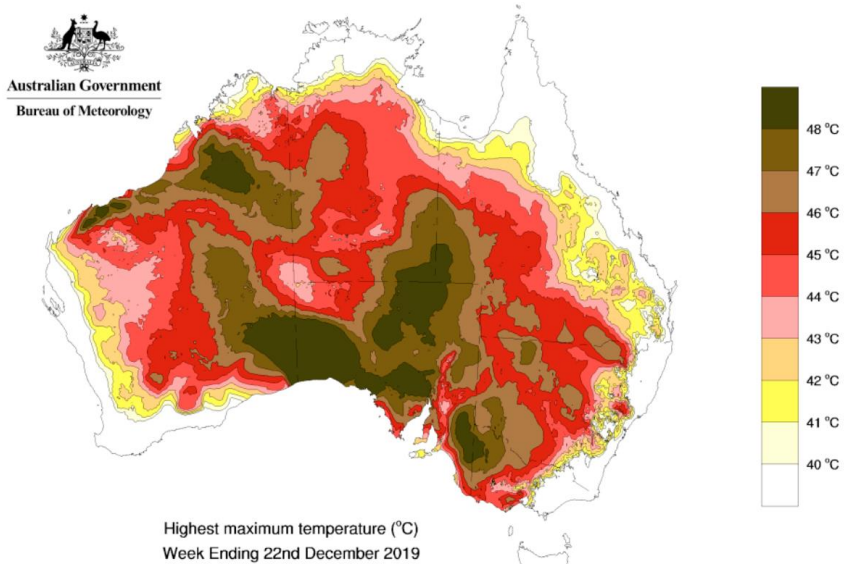

Fig. 12: Highest daily maximum temperature from 16-22 Dec 2019. Figure from BOM.

[105] BOM (2019) Special Climate Statement 70b update. Accessed at: http://www.bom.gov.au/climate/current/statements/

f) A long-term increase in extreme fire weather, and fire-season length, has occurred across large parts of Australia, with devastating consequences. **Much of Australia now witnesses up to 25 more days with weather conditions conducive to extreme bushfires compared to 1950-1985**.[106] (See Fig. 13.)

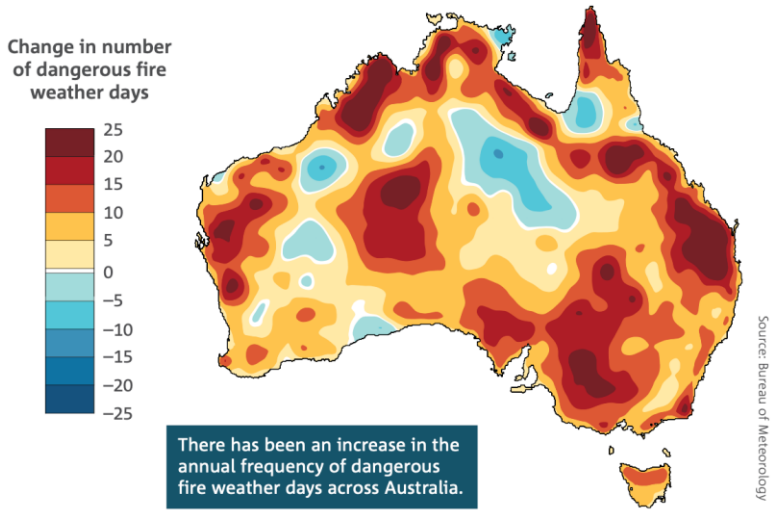

Fig. 13: Change in number of days of dangerous fire weather in 1985-2020 compared to 35 years earlier, 1950-1985.

These are days recording a Forest Fire Danger Index (FFDI) that exceeds its 90th percentile.

g) **All of the Northern Territory has had above average wet season rainfall over the past 20 years, with the area in which the Project would be sited experiencing very much above average values.** (See Fig. 14 below.)[107]

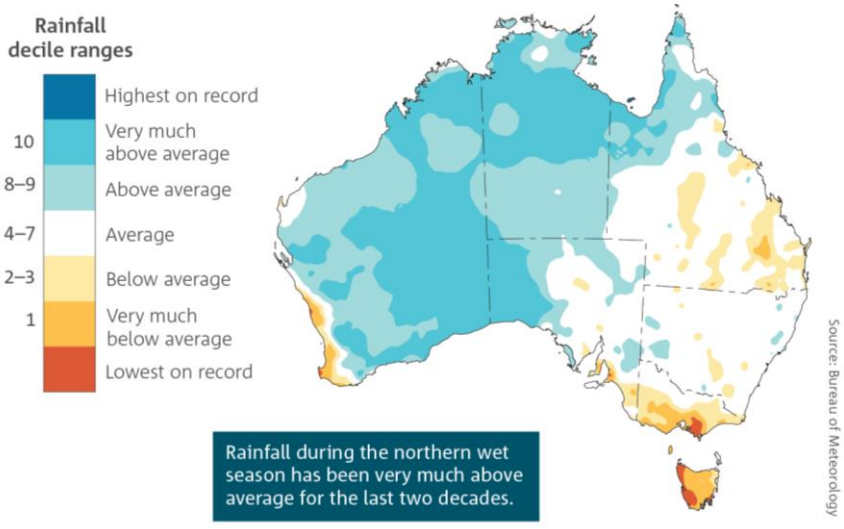

Fig. 14: Northern wet season (October–April) rainfall deciles for the last 20 years (2000–01 to 2019–20), showing how rainfall in the recent period has compared with the entire national rainfall record from 1900.

Figure from BOM.

[106] CSIRO/BOM (2020) State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate/

[107] CSIRO/BOM (2020), State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate

h) More of the total annual rainfall in recent decades has come from heavy rain days. **Heavy rainfall events are becoming more intense**.

i) **In part due to La Niña effects, rainfall has been above average in 2021.** Major flooding occurred in multiple West Gippsland catchments after more than 200 mm of rain fell during the 24 hours in June 2021. Daily rainfall records were set across a number of stations in Victoria and major flooding occurred in multiple catchments in 2021. **November 2021 was the wettest on record for Australia as a whole**, with flooding occurring across large areas of inland NSW and large areas of Queensland**. Now much of this has been dwarfed by the unprecedented floods in the early part of 2022.**

j) Ocean warming, particularly around southeast Australia and in the Tasman Sea, has contributed to **longer and more frequent marine heatwaves**, depleting kelp forests and sea grasses, increasing disease and bleaching coral reefs.

k) **Increasing acidity of oceans has accelerated, to more than five times faster than that from 1900 to 1960, and 10 times faster than at any time in the past 300 million years**. The entire marine ecosystem is affected, with a **significant reduction in coral calcification and growth rates on coral reefs such as the Great Barrier Reef**. The **widespread coral bleaching of the Great Barrier Reef during 2016 was made 175 times more likely due to climate change caused by humans**.[108]

142) A new trend, called '**flash drought' is emerging in Australia**. Flash droughts occur from a very fast reduction in soil moisture, typically caused by a lack of rainfall combined with high temperatures, low humidity, and strong winds. **Flash droughts occur so quickly that adaptation by farmers is difficult**.[109]

[108] King A, Karoly D, Black M, Hoegh-Guldberg O, and Perkins-Kirkpatrick S (2016) Great Barrier Reef bleaching would be almost impossible without climate change. The Conversation, April 29, 2016.
[109] Steffen, W. and Bradshaw, S. (2021) Hitting Home: The Compounding Costs of Climate Inaction, and references cited therein. Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/hitting-home-compounding-costs-climate-inaction

143) The cost of extreme weather disasters in Australia has more than doubled since the 1970s, reaching $35 billion for the decade 2010-2019. **Australians are five times more likely to be displaced by a climate-fuelled disaster than someone living in Europe**.[110]

144) **Australia has been rated fourth highest in the G20 for economic losses per unit of GDP incurred from extreme weather events over the last 20 years** (1999-2018).[111]

145) Changes to physical systems caused by human-induced climate change have already had detrimental effects in effects on the natural environment of Australia. AR6 WGII states: **"Climate trends and extreme events have combined with exposure and vulnerabilities to cause major impacts for many natural systems, with some experiencing or at risk of irreversible change in Australia."** [112]

146) AR6 WII continues: "The region faces an extremely challenging future. **Reducing the risks would require significant and rapid emission reductions to keep global warming to 1.5–2.0°C, as well as robust and timely adaptation. The projected warming under current global emissions reduction policies would leave many of the region's human and natural systems at very high risk and beyond adaptation limits."**

147) In three years, eastern Australia has gone from unprecedented extremes in drought, heat and bushfire, to unprecedented extremes in rainfall and flooding, sometimes in the same geographical areas. This has placed enormous strain on communities, the environment, and emergency and medical response. **In some areas, recovery from one catastrophe has hardly begun before another takes place**.

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[110] Steffen, W. and Bradshaw, S. (2021) Hitting Home: The Compounding Costs of Climate Inaction, and references cited therein. Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/hitting-home-compounding-costs-climate-inaction

[111] Climate Transparency Report (2020) International Climate Transparency Partnership, accessed at: https://www.climate-transparency.org/g20-climate-performance/the-climate-transparency-report-2020

[112] IPCC (2022) Chapter 11, Australasia, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

148) **Australia is the most fire-prone continent on Earth**.[113,114] The accumulation of charcoal (fire residue) in Australia is now higher than at any other time in the last 70,000 years.[115]

149) **The Forest Fire Danger Index (FFDI) indicates the fire danger on a given day** based on daily values for temperature, humidity and wind speed, and a drought factor that represents the influence of recent temperatures and rainfall events on fuel moisture. Extremely dangerous fire weather results in high FFDI values. **An FFDI larger than 50 represents 'severe' fire risk that results in a total fire ban. Fire weather drives the chances of a fire starting, its subsequent behaviour, and the difficulty of suppressing it.**

150) **In 2019, the national annual accumulated FFDI was its highest since 1950, when national records began**.[116] Accumulated FFDI reached record high values in areas of all States and Territories in Spring 2019,[117] **including almost all of the Northern Territory**.

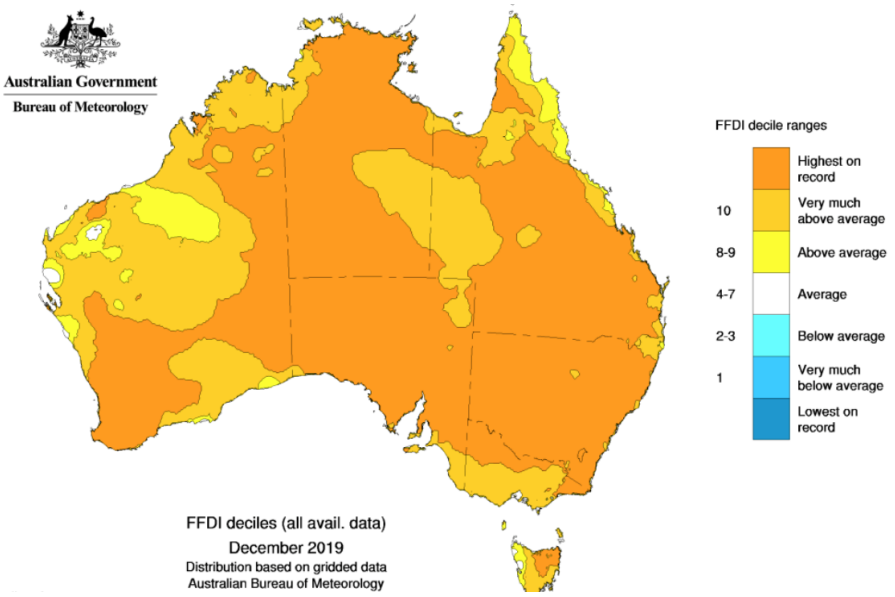

Fig. 15: FFDI deciles for December 2019, showing large areas of Australia had highest values on record for that month (dark orange colour). Figure from BOM Climate Statement 73.

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[113] Sharples, J. J. et al. (2016) Natural hazards in Australia: extreme bushfire. Clim. Chang. 139, 85–99
[114] Bradstock, R. A. (2010) A biogeographic model of fire regimes in Australia: current and future implications. Glob. Ecol. Biogeogr. 19, 145–158.
[115] Mooney, S. D. et al. (2011) Late Quaternary fire regimes of Australasia. Quat. Sci. Rev. 30, 28–46.
[116] BOM (2020) Special Climate Statement 73 update, Accessed at: http://www.bom.gov.au/climate/current/statements/
[117] BOM (2020) Special Climate Statement 73 update, Accessed at: http://www.bom.gov.au/climate/current/statements/

151) Those dangerous fire weather conditions continued **into summer of 2019/2020, with December accumulated FFDI values the highest on record across large areas of Australia, and essentially all of NT** (see Fig. 15 above).[118] It is not surprising, therefore, that **the Australian 2019/20 bushfires were the worst on record on many measures**.[119,120]

152) Australia's Black Summer is consistent with previous scientific assessments dating back at least 30 years that human-caused climate warming will increase the duration, frequency and intensity of forest fires in southeast Australia.[121,122,123] **Since the mid-twentieth century, the clear trend is towards more dangerous forest fire weather in Australia, and increasingly long fire seasons that start earlier**.[124,125,126] These trends are strengthening. **Key climate change drivers of fire risk,** particularly in southeast Australia, **are becoming stronger**.[127,128]

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[118] BOM (2020) Special Climate Statement 73 update, Accessed at: http://www.bom.gov.au/climate/current/statements/

[119] Hughes, L, Steffen, W, Mullins, G, Dean, A, Weisbrot, E, and Rice, M (2020) *The Summer of Crisis.* Published by the Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/summer-of-crisis/ and references cited therein.

[120] Abram, N.J., et al. (2021) Connections of climate change and variability to large and extreme forest fires in southeast Australia, Communications Earth & Environment 2:8, https://doi.org/10.1038/s43247-020-00065-8

[121] Beer, T., Gill, A. M. & Moore, P. H. R. (1988) in Greenhouse: Planning for Climatic Change (ed. Pearman, G. I.) 421–427 (CSIRO Publishing)

[122] Reisinger, A. et al. (2014) in Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. (eds V. R. Barros et al.) Ch. 25, 1371–1438 (Cambridge University Press, 2014).

[123] Hennessy, K. et al. (2007) Australia and New Zealand in Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (eds Parry, M. L. et al.) 507–540 (Cambridge University Press, 2007).

[124] Harris, S. & Lucas, C. (2019) Understanding the variability of Australian fire weather between 1973 and 2017. PLoS ONE 14, e0222328.

[125] Dowdy, A. J. (2018) Climatological variability of fire weather in Australia. J. Appl. Meteorol. Climatol. 57, 221–234.

[126] Abram, N.J., et al. (2021) Connections of climate change and variability to large and extreme forest fires in southeast Australia, Communications Earth & Environment 2:8, https://doi.org/10.1038/s43247-020-00065-8

[127] Matthews, S., Sullivan, A. L., Watson, P., & Williams, R. J. (2012) Climate change, fuel and fire behaviour in a eucalypt forest. Global Change Biology, 18(10), 3212-3223. doi:10.1111/j.1365-2486.2012.02768.x

[128] Pitman, A. J., Narisma, G. T., & McAneney, J. (2007) The impact of climate change on the risk of forest and grassland fires in Australia. Climatic Change, 84(3), 383-401. doi:10.1007/s10584-007-9243-6

153) **Nearly 80% of all Australians were affected directly or indirectly by the 2019/20 bushfires,**[129] **which have now come to be known as the 'Black Summer' fires.**

154) The Black Summer fires resulted in extensive social, environmental and economic impacts. The direct social impacts included the loss of 33 lives[130] and the destruction of over 3,000 houses.[131]

155) The economic costs of Black Summer go beyond the direct impact on gross domestic product (GDP). Nationally, the fire season is expected to break new records for economic costs from bushfires,[132] and **was judged to be Australia's costliest natural disaster up to 2020**.[133] It remains to be seen whether those costs will be surpassed by the 2022 floods.

156) The tourism sector alone is likely to have lost at least $4.5 billion due to effects of the fires.[134] The Australian food system is estimated to have suffered at least $4–5 billion in economic losses due to the Black Summer fires, with only about a third of this recovered through funding for bushfire recovery.

157) Indirect health impacts attributed to smoke exposure include an estimated 417 lives lost and 3,151 hospitalisations.[135] The short-term health costs associated with this smoke exposure is estimated to be $1.95 billion Australia-wide. The longer-term premature

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[129] Biddle et al. (2020) Exposure and the impact on attitudes of the 2019-20 Australian Bush Fires. ANU Centre for Social Research Methods. Accessed at: https://csrm.cass.anu.edu.au/sites/default/files/docs/2020/2/Exposure_and_impact_on_attitudes_of_the_2019-20_Australian_Bushfires_publication.pdf

[130] Hughes, L, Steffen, W, Mullins, G, Dean, A, Weisbrot, E, and Rice, M (2020) *The Summer of Crisis.* Published by the Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/summer-of-crisis/ and references cited therein.

[131] Filkov, A. I., Ngo, T., Matthews, S., Telfer, S. & Penman, T. D. (2020) Impact of Australia's catastrophic 2019/20 bushfire season on communities and environment. Retrospective analysis and current trends. J. Safe. Sci. Resil. 1, 44–56

[132] ANZ Research (2020) Australian bushfires: Impacting GDP. Accessed at: https://bluenotes.anz.com/posts/2020/01/anz-research-australian-bushfires-economic-impact-gdp

[133] Read, P. & Denniss, R. (2020) With costs approaching $100 billion, the fires are Australia's costliest natural disaster. Conversation. Accessed at: https:// theconversation.com/with-costs-approaching-100-billion-the-fires-are- australias-costliest-natural-disaster-129433

[134] AFR (Australian Financial Review) (2020) Tourism loses $4.5b to bush res as overseas visitors cancel. Accessed at: https://www.afr.com/companies/tourism/tourism-loses-4-5b-to-bushfires-as-overseas-visitors-cancel-20200116-p53s0s/

[135] Borchers Arriagada, N. et al. (2020) Unprecedented smoke-related health burden associated with the 2019–20 bushfires in eastern Australia. Med. J. Aust. 213, 282–283.

mortality and economic burden from cumulative effects of smoke exposure will be much higher, by factors estimated to be between two and five.[136]

158) Overall, it is estimated that **three billion individual native vertebrates perished in the Black Summer fires**, comprising: 143 million mammals, 2.46 billion reptiles, 180 million birds and 51 million frogs.[137]

159) **Temperate broadleaf and mixed (TBLM)** forests in eastern Australia cover about 27 million hectares (Mha). **In Australia, typically less than 2% of temperate broadleaf forest areas burn annually**, even in extreme fire seasons. The average annual area burnt for most continents is well below 5%, except for Africa and Asia, which have average annual areas burnt of 8-9% for some biomes.[138] Yet research substantiates that the **Black Summer fires burned a globally unprecedented percentage of any continental forest biome: at least 21% of the Temperate broadleaf and mixed forest biome was burnt in a single season**.[139]

160) Although the **forest areas lost in Black Summer could, in principle, be recovered by regrowth and replanting**, this will only **take place when the new trees reach full maturity in roughly 100 years**,[140,141] which is **longer than the time left to reach net zero emissions, for even a 2°C global warming** threshold. Moreover, it is not clear that these forests can fully recover in a climate that continues to warm and dry as a result of climate change.[142]

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[136] Johnston, F.H. et al. (2021) Unprecedented health costs of smoke-related PM2.5 from the 2019-20 Australian megafires, Nature Sustainability, 4, 42-47, and Extended Data Fig. 3. https://doi.org/10.1038/s41893-020-00610-5

[137] Van Eeden, L. et al. (2020) Australia's 2019-2020 Bushfires: The Wildlife Toll Interim Report, WWF Australia. Accessed from: https://www.wwf.org.au/news/news/2020/3-billion-animals-impacted-by-australia-bushfire-crisis

[138] Boer MM, Resco de Dios V, & Bradstock RA (2020) Unprecedented burn area of Australian mega forest fires, Nature Climate Change.

[139] M. M. Boer, V. Resco de Dios, R. A. Bradstock, (2020) Unprecedented burn area of Australian mega forest fires. Nat. Clim. Chang. 10, 171–172. doi: 10.1038/s41558- 020-0716-1

[140] Ngugi MR, Doley D, Cant M & Botkin DB (2015) Growth rates of Eucalyptus and other Australian native tree species derived from seven decades of growth monitoring. Journal of *Forestry Research*, 26 (4) and references therein.

[141] Land for Wildlife. How to Age Trees. Accessed at: https://www.lfwseq.org.au/how-to-age-trees/

[142] Science News Magazine (2020) Will Australia's forests bounce back after devastating fires? Posted 11 February 2020. Accessed at: https://www.sciencenews.org/article/australia-forest-ecosystem-bounce-back-after-devastating-fires

161) Consequently, **local tipping points in some Australian forests may have already been crossed.**[143] The future of these forests will be unlike their historical past, with a **danger that large portions may not be able to regenerate fully due to increased climate change and/or before the next catastrophic wildfire**.

162) **The 2022 Australian Floods placed an additional burden on communities and environments not yet fully recovered from climate extremes experienced just two to three years ago**.

163) Climate change is associated with extremes in the hydrological cycle. One fundamental reason for this is that a warmer atmosphere is capable of holding more water (before it precipitates out as rain or snow). According to AR6 WG1, **on the global scale, extreme daily precipitation events are projected to intensify by about 7% for each 1°C of** global warming (*high confidence*). **Their frequency is also expected to increase, doubling with each degree of global temperature rise.**[144] Increasingly extreme rainfall events and flooding due to global warming have been predicted for Australia, in particular. (see e.g., paragraphs 141), 200) and 213)).

164) Increased atmospheric moisture can also provide more energy for some processes that generate extreme rainfall events, which further increases the likelihood of heavy rainfall.[145] Already there has been an **increase in the intensity of heavy rainfall events in Australia. The intensity of short-duration (hourly) extreme rainfall events has increased by around 10% or more in some regions in recent decades, with larger increases typically observed in the north of the country.**

165) Although not enough time has elapsed for a scientific attribution study on this particular anomaly, **the 2022 Australia Floods are entirely consistent with expectations for climate change**, with the Climate Council stating that: "*Climate change is firmly*

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[143] Steffen, W. and Bradshaw, S. (2021) Hitting Home: The Compounding Costs of Climate Inaction, and references cited therein. Climate Council of Australia Ltd. Accessed at: https://www.climatecouncil.org.au/resources/hitting-home-compounding-costs-climate-inaction

[144] Climate Council (2022) A Supercharged Climate: Rain Bombs, Flash Flooding and Destruction. Accessed at: https://www.climatecouncil.org.au/resources/supercharged-climate-rain-bombs-flash-flooding-destruction/

[145] CSIRO/BOM (2020) State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate/

embedded in the 2022 flooding emergency that swept through southeast Queensland and New South Wales with some regions experiencing rainfall that was simply off the charts."

166) It is reported[146] that **damages claimed from the February 2022 floods** in Queensland and NSW has reached $4.8 billion from around 225,000 insurance claims, making the event **the third costliest natural disaster for insured losses in Australian history**.

167) Without adaptation, **projected increases in direct flood damage are 1.4 – 2 times higher at 2°C, and 2.5 – 3.9 times at 3°C of warming, compared to 1.5°C.** [147] **This is another example of the large negative consequences of allowing global warming to rise beyond 2°C.**

6.1.3 Northern Territory and Region of the Project

168) **Climate change impacts are already being experienced across the Territory**. According to the NT Government: [148]

a) "Over the last century, annual average temperatures across the Territory have increased by 0.5°C in the west and 2.2°C in the south-east. **There has been a significant increase in the number of extremely hot days, in both the Top End and central Australia. Climate modelling indicates that these trends will continue**."

b) "While **average rainfall** has remained fairly consistent in the southern parts of the Territory, it **has increased in the Top End**. Climate models are unclear about trends in annual rainfall, but **the intensity of heavy rainfall events is expected to increase across the Territory**. At the same time, **droughts are likely to be more severe due to increasing temperatures, and more extreme fire behaviour is expected. Tropical cyclones are expected to become less frequent but be more intense**."

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[146] ABC News (28 June 2022) Insurance bill for February floods reaches $4.8b, victims could wait years for repairs, Accessed at: https://www.abc.net.au/news/2022-06-28/qld-brisbane-flood-insurance-claims-figures-supply-shortages/101186734

[147] IPCC (2022) Summary for Policymakers, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

[148] Northern Territory Government (2020) Northern Territory Climate Change Response: Towards 2050. Accessed at: https://climatechange.nt.gov.au/nt-climate-change-response/northern-territory-climate-change-response-towards-2050

c) "**Sea levels are rising, with the Territory coasts experiencing some of the highest rises in the world**. Levels are projected to rise by up to 0.17m by 2030, and by up to 0.85m by 2090, compared to levels across the 1986 – 2005 period. **Higher sea surface temperatures and ocean acidification pose significant threats to the marine environment**."

169) A 2020 report[149] prepared specifically to describe current and future climate change impacts in the NT shows the clear, strong trend of increasing numbers of hot days in the Territory. Fig. 16 (below) is taken from this report and shows that **not only have hot days above 30°C generally increased in the Territory** in the three decades between 1989 and 2018, compared to three decades prior**, but days above 38°C and 44°C in regions such as Tennant Creek and Alice Springs have risen very sharply**.

	Darwin		Tennant Creek		Alice Springs	
	Days above 30°C	Days above 35°C	Days above 38°C	Days above 44°C	Days above 38°C	Days above 44°C
1959–1988	295	7	39	0	41	4
1989–2018	327	14	48	7	49	24

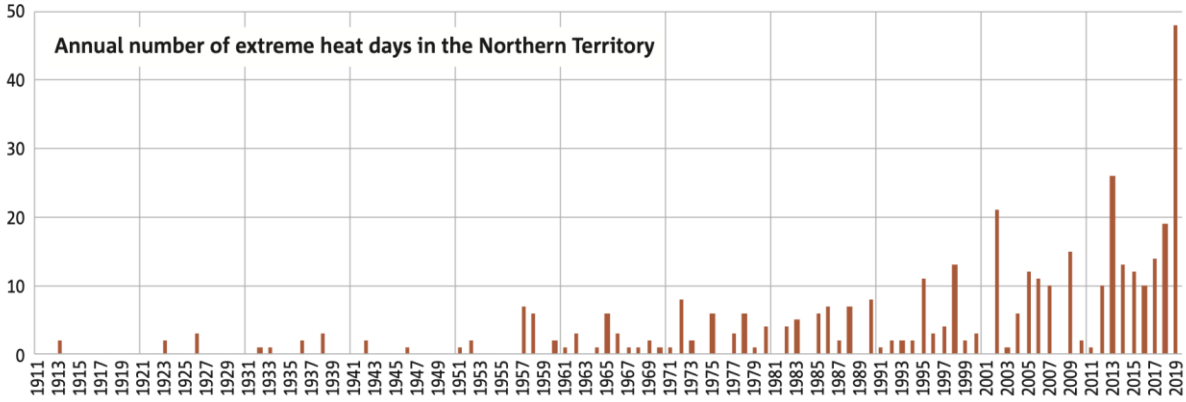

Fig. 16: Number of days each year in which the NT area-averaged daily mean temperatures were among the top 1% hottest for each month. Data from BoM.

170) NSW Health Department information on heat-related illnesses,[150] states: "When the air is hotter than around 35°C, the body can only lose heat through sweating [which] can be impaired by humidity . . ." **Heat stroke occurs when the core temperature of the**

[149] NESP Earth Systems and Climate Change Hub (2020) Climate change in the Northern Territory: state of the science and climate change impacts. Accessed at: https://denr.nt.gov.au/__data/assets/pdf_file/0011/944831/state-of-the-science-and-climate-change-impacts-final-report.pdf

[150] https://www.health.nsw.gov.au/environment/beattheheat/Pages/information-for-health-professionals.aspx

human body rises, and can cause shock, arrhythmia, altered mental state, convulsions, unconsciousness, and possible death.

171) **Temperatures of 38°C or more – above the internal core body temperature of humans – are particularly dangerous for human health.** The chart of 'heat index' (or 'apparent temperature') shown in Fig. 17 shows that the index rises sharply as air temperature and relative humidity climb, as does the danger to human health, as indicated by the colour coding and the associated text.[151]

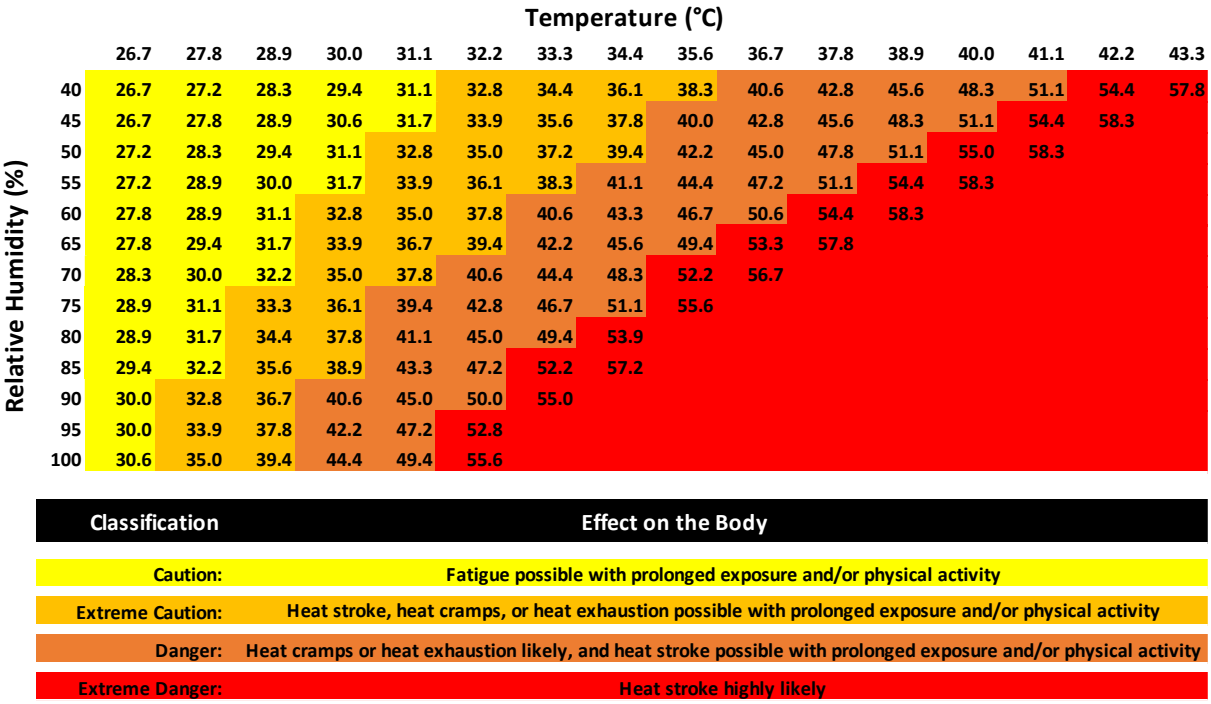

Fig. 17: Heat index for different temperatures and relative humidity. The table values are for shaded areas. If one is exposed to direct sunlight, the heat index value can be increased by up to 8°C.

172) **According to data from BoM,[152] past *average* high temperatures** in Daly Waters (**near the Project site**) **have been 35°C or more for the months of October through February. March and September have average high temperatures of 34.9°C**. Coupled with the humidity of the region (e.g., in January 2022 Daly Waters had an average relative humidity at 9am of 67%, and 43% at 3am), very dangerous conditions exist for workers in the area. **These conditions will worsen with increased global warming**.

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[151] Figure after that published by the US National Weather Service, NOAA, What is the heat index? Accessed at: https://www.weather.gov/ama/heatindex

[152] http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p_nccObsCode=122&p_display_type=dailyDataFile&p_startYear=&p_c=&p_stn_num=014626

6.2 Future Impacts of Climate Change

173) At its simplest level, **future climate change can be projected on the basis of different scenarios for future human GHG emission trajectories**.

174) Other drivers of future climate change include **the speed with which the planet responds to feedbacks in the Earth System**, and how these interact with one another, possibly cascading to create a planetary tipping point. (These are discussed in Sections 3.7, 3.8 and 3.9 of this Report.)

175) A brief overview of possible emission trajectories and their consequences for global warming levels is presented in Section 6.2.1, making comparisons with the warming target of the UNFCCC **Paris Agreement,**[153] which **commits signatories to "holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C."** Australia is a signatory to the Paris Agreement.

176) Possible climate futures for the world, Australia and NT are sketched below in Sections 6.2.2 , 6.2.3, and 6.2.4, respectively. Which of these futures is realised depends on the trajectory of human GHG emissions.

6.2.1 Why emissions trajectories matter

177) Projections of how the climate will evolve into the future depend on the direction and speed with which global emissions evolve. **If the trend of rising emissions is continued**, the world will be on a pathway similar to the scenarios[154] labelled RCP6.0 and RCP8.5 by the fifth Assessment Report (AR5) of the IPCC,[155] based on extrapolation of observed

[153] UN (2015), Paris Agreement, Accessed from https://unfccc.int/sites/default/files/english_paris_agreement.pdf

[154] NB: "RCP" is Representative Concentration Pathway, which is a scenario for the concentration of greenhouse gases in the atmosphere. The numbers refer to the 'radiative forcing' for a scenario, in Watts per square metre.

[155] Collins, M. et al. (2013) Long-term climate change: Projections, commitments and irreversibility, in Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, edited by Stocker et al. Cambridge University Press, pp. 1029-1136.

emissions trends,[156] and consistent with recent analyses.[157] In this case, **global warming could be 3—4°C above pre-industrial times in just 80 years**.

178) AR6 WGI,[158] expands this older work, **using improved climate modelling constrained by previous climate responses to consider five illustrative scenarios for how human emissions may proceed from now until the year 2100**. Those scenarios are labelled: SSP1-1.9, SSP1-2.6, SSP2-4.5, SSP3-7.0 and SSP5-8.5, in order of lowest to highest emissions.[159] They are similar, but not identical, to the RCP-labelled scenarios of the fifth IPCC assessment. The global warming consequences of each of these five emissions scenarios are shown in Fig. 18 below.

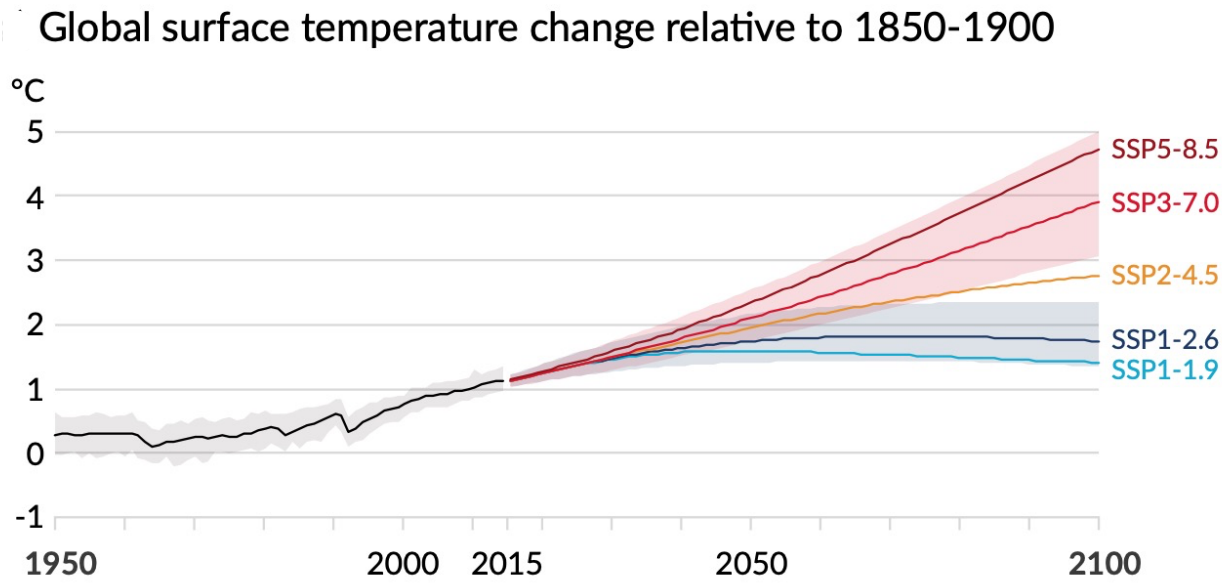

Fig 18: Projections for each of the five AR6 emission scenarios are shown in colour. The black curve indicates past warming. Shaded regions show the `very likely' ranges for the SSP1-2.6 and the SSP3-7.0 scenarios. Figure reproduced from the IPCC ARC WGI Summary for Policymakers, Fig. SPM.8.

179) ***All* scenarios considered in AR6 WGI, including the lowest emission trajectory (SSP1–1.9), are more likely than not to reach or exceed 1.5°C of warming this century.** The best estimate for the lowest emission scenario (SSP1-1.9) is that 1.5°C will be reached before

[156] Le Quéré, C et al. (2018) Global Carbon Budget 2018, Earth Syst. Sci. Data, 10, 2141–2194, https://doi.org/10.5194/essd-10-2141-2018
[157] Climate Action Tracker (2020) https://climateactiontracker.org/global/cat-thermometer/
[158] https://www.ipcc.ch/report/ar6/wg1/#FullReport
[159] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

2040, likely peaking at 1.6°C around mid-century, and that warming will then drop slightly to 1.4°C at century's end.[160] **This means that humanity has likely lost the chance to hold warming strictly below 1.5C, the lowest of the Paris Agreement targets, but may still have the possibility of returning global temperatures to that value in 80 years' time.**

180) Indeed, due to natural fluctuations, the world may soon experience years in which the global average temperature exceeds 1.5°C of warming. Work led by the UK Met Office shows **there is a 40% chance that the world will see global average 1.5°C warming (at least temporarily) sometime before 2025.**[161]

181) **In order to hold global warming well-below 2°C, the upper of the Paris Agreement targets**, human emissions trajectories must be more closely aligned with the SSP1-1.9 or SSP1-2.6 scenarios than the other three scenarios, requiring "**deep reductions in CO_2 and other greenhouse gas emissions occur in the coming decades**,"[162] according to the AR6 WGI report.

182) The **higher emission scenarios SSP2-4.5, SSP3-7.0 and SSP5-8.5 all carry a significant of risk of global warming of at least 3°C by 2100, with SSP3-7.0 and SSP5-8.5 very likely to reach 3°C to 4°C by then, and continue to rise thereafter**.

183) The subsections that follow describe possible climate futures in a world experiencing different levels of global warming, including 1.5°C (which is now essentially inevitable), 2°C, 3°C and higher above pre-industrial times. **What separates these possible futures is the trajectory of human GHG emissions, particularly in the next decade**.

6.2.2 Possible Global Futures

184) **Climate impacts are hitting harder and sooner than previous scientific assessments have expected.** Over two decades, the IPCC has published a series of science-based risk

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[160] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, Table SPM.1, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[161] WMO 2020, Global Annual to Decadal Climate Update: Target years 2021, and 2021-2025. Accessed at: https://hadleyserver.metoffice.gov.uk/wmolc/ on 17 December 2021.

[162] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

assessments for people, ecosystems and economies worldwide. **A comparison of these "Reasons for Concern"** (see Fig. 19 below based on the WMO 2019 report and AR6 WII)[163] **shows that the level of risk has increased with each subsequent analysis from 2001 to 2022**. More recent IPCC reports indicate higher risks (redder colours) than did previous reports for the same average global warming.

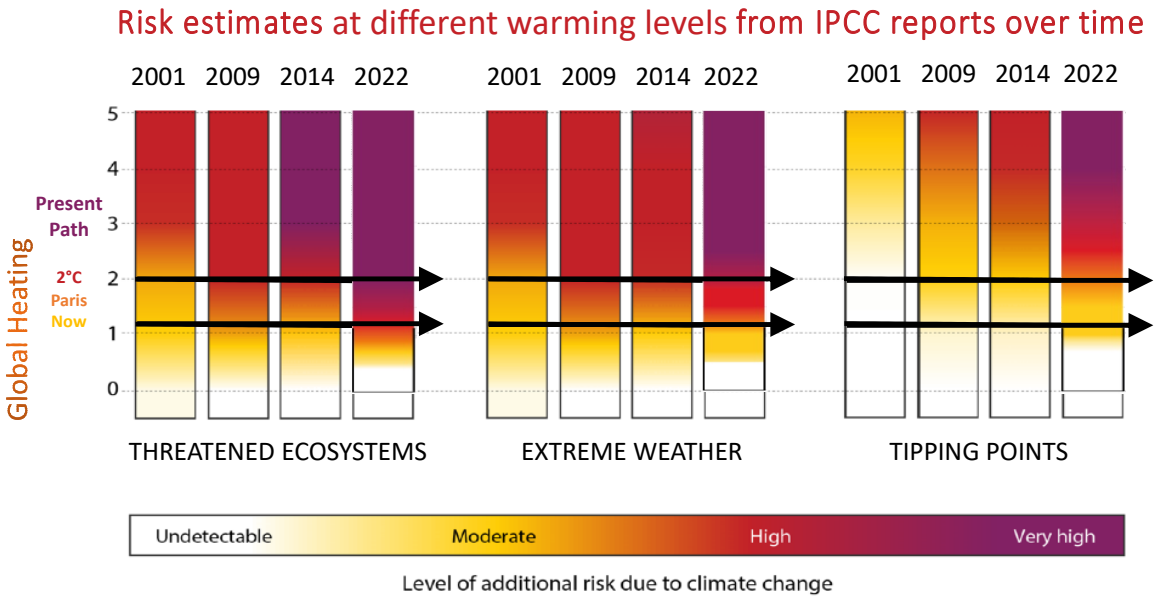

Fig. 19: As temperature (above pre-industrial time) climbs upward, climate risks increase (shown by deeper, dark colours). Indicated are the present (marked as "now"), the Paris Agreement Range, a 2°C scenario, and the present path trajectory leading to 3°C to 4°C of global heating. Results from more recent IPCC reports (arrows moving left to right) indicate higher risks than did earlier reports at the same temperature.

185) The conclusion is clear**: the more we know, the more we realise how dangerous even a small amount of warming can be**.

186) We now know that the Earth will experience 1.5°C of warming (see paragraph 179), and so it is clear that the world faces still greater risks from climate change.

187) **The Paris Agreement range of 1.5°C to well below 2.0°C is not 'safe' (though it is much safer than higher temperatures).** Within this range of warming, ecosystems are at high to very high risk, there is a high risk of extreme global weather events, and a moderate risk of large-scale singular events that could lead to climatic tipping points, as Fig. 19 shows.

[163] WMO 2019, United in Science, Report prepared for the UN Climate Action Summit 2019, https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf

188) According to AR6 WGI: "**With every additional increment of global warming, changes in extremes continue to become larger**. For example, every additional 0.5°C of global warming causes clearly discernible increases in the intensity and frequency of hot extremes, including heatwaves (*very likely*), and heavy precipitation (*high confidence*), as well as agricultural and ecological droughts in some regions (*high confidence*)."[164]

189) Recent research indicates that **even under 1.5°C of warming, thousands of global locations will experience what are now considered 'once-in-100-years extreme-sea-level events' *at least once a year* by 2100**.[165]

190) **Very high extinction risk for endemic species in biodiversity hotspots is projected to at least double from 2% between 1.5°C and 2°C global warming levels and to increase at least tenfold if warming rises from 1.5°C to 3°C**.[166]

191) **At 2°C warming, 99% of the world's coral reefs, including the Great Barrier Reef, are very likely to be eliminated**, and **crisis upon crisis will compound for the world's most vulnerable people.**[167]

192) Specifically, **if emissions do not come down drastically before 2030, the world will be on a path to 2°C of warming or more**, and **by 2040 some 3.9 billion people are likely to experience major heatwaves, 12 times more than the historic average.** By the 2030s, 400 million people globally each year are likely to be exposed to temperatures exceeding the workability threshold. Also, **by the 2030s, the number of people on the planet exposed to heat stress exceeding the survivability threshold is likely to surpass 10 million a year.**[168]

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[164] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, Table SPM.1, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[165] Tebaldi, C. et al. (2021) Extreme sea levels at different global warming levels. In Nature Climate Change, 11, 746-751, https://doi.org/10.1038/s41558-021-01127-1

[166] IPCC (2022) Summary for Policy Makers, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

[167] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

[168] Quiggin, D, De Meyer, K, Hubble-Rose, L, and Froggatt, A. (2021) Climate change risk assessment 2021, Royal Institute of International Affairs, Chatham House. Accessed at: https://www.chathamhouse.org/2021/09/climate-change-risk-assessment-2021

193) Although agriculture will need to produce almost 50% more food by 2050, yields could decline by 30% and **by 2040, the average proportion of global cropland affected by severe drought will likely rise to 32% a year, more than three times the historic average**.[169]

194) In a world of **2°C of warming**, the **extraordinary heatwave in the 2021 Pacific Northwest of the US and Canada would be hotter, and occur once every 5 to 10 years**.[170]

195) **At 2°C of warming, which current policies and actions would ensure** (see Section 7.1), **13% of the Earth's surface will undergo complete ecosystem transformations.**[171]

196) **At 3°C – 4°C of warming** above pre-industrial temperatures (a possible consequence of continuing on our current path), today's world would be nearly unrecognisable, with high to very high risk that:[172]

a) **Most of the world's ecosystems are heavily damaged or destroyed**;

b) **Extreme weather events are far more severe and frequent** than today;

c) **Large areas of the world become uninhabitable. Migration and conflict escalate**;

d) **Aggregated global impacts significantly damage the entire global economy**; and

e) A **high risk** that a cascade of tipping points in the climate system drives the **Earth system into a state not seen for millions of years**, irrespective of humanity's late attempts to reduce emissions.[173]

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[169] Quiggin, D, De Meyer, K, Hubble-Rose, L, and Froggatt, A. (2021) Climate change risk assessment 2021, Royal Institute of International Affairs, Chatham House. Accessed at: https://www.chathamhouse.org/2021/09/climate-change-risk-assessment-2021

[170] Phillip, S.Y. et al. (2021) Rapid attribution analysis of the extraordinary heatwave on the Pacific Coast of the US and Canada June 2021, Earth System Dynamics, Accessed at: https://esd.copernicus.org/preprints/esd-2021-90/

[171] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

[172] IPCC (2014): Summary for policymakers. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, Field et al. (eds.) Cambridge University Press, pp. 1-32.

[173] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. *Proc. Natl. Acad. Sci. (USA)* doi:10.1073/pnas.1810141115 and associated Appendix https://www.pnas.org/content/pnas/115/33/8252.full.pdf

197) **Over the next 2,000 years, global mean sea level will rise by about 2 – 3m if warming is limited to 1.5°C, 2 – 6m if limited to 2°C, and 19 – 22m with 5°C of warming, and it will continue to rise over subsequent millennia** (*low confidence*).[174]

198) **At 5°C of warming or above,** which is possible in the highest emissions scenario SSP5-8.5 by the end of the century (see Fig. 18), **it has been estimated**[175] **that a mass extinction would occur comparable to the 'big five' mass extinctions over the past 450 million years that resulted in extinction of 75% of all marine species.**

6.2.3 Possible Australian Futures

199) **Key risks of increased global warming particular to Australia** that have been identified in the AR6 WII include[176]:

a) **Degradation of tropical shallow coral reefs** and associated biodiversity and ecosystem service values,

b) **Loss of human and natural systems in low-lying coastal areas** due to sea-level rise,

c) **Impact on livelihoods and incomes** due to decline in agricultural production,

d) **Increase in heat-related mortality and morbidity for people and wildlife**, and

e) **Loss of alpine biodiversity** due to less snow.

200) **Regardless of emission scenarios**, the CSIRO and BOM[177] report that **Australia will certainly experience more extreme climate effects**, including:

a) Further warming, with more extremely hot days and fewer extremely cool days.

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[174] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[175] Song, H., Kemp, D.B., Tian, L., Chu, D, Song, H., and Dai, X. (2021) Thresholds of temperature change for mass extinctions. Nature Communications 12: 4694, https://www.nature.com/articles/s41467-021-25019-2

[176] IPCC (2022) Summary for Policy Makers, in Climate Change 2022: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg2/

[177] CSIRO/BOM (2020) State of the Climate 2020, Commonwealth of Australia. http://www.bom.gov.au/state-of-the-climate/

b) A **decrease in cool-season rainfall** across many regions of the south and east of Australia, with more time spent in drought.

c) A longer fire season for the south and east and an **increase in the number of dangerous fire weather days**.

d) **More intense short-duration heavy rainfall events** throughout the country.

e) Fewer tropical cyclones, a greater proportion of which will be of high intensity.

f) **More frequent, extensive, intense and longer-lasting marine heat waves**, increasing risk of frequent and severe bleaching of the Ningaloo and Great Barrier Reefs.

g) Oceans around Australia will continue to warm, rise and become more acidic.

h) **Ongoing sea level rise,** with recent research on ice sheet melting revealing that sea level rise could be higher than previously assessed.

Specifically, the CSIRO/BOM 2020 report states that:

i) For most of the Australian coast, **extreme sea levels that had a probability of occurring *once in a hundred years* are projected to become an *annual event* by the end of this century with lower emissions, and by mid-century for higher emissions**.

j) **The year 2019 was Australia's hottest year on record. That temperature is expected to be an average year when global mean warming reaches 1.5 °C** above the pre-industrial baseline period of 1850–1900.

k) While the current decade is warmer than any other decade over the last century, it is also likely to be the coolest decade for the century ahead.

l) Australian continental temperatures are observed to be about 1.4 times greater than global average temperatures.[178] Thus, global warming between 1.5°C and 2°C above 1850-1900 levels translates into average temperature increases of 2.1°C and 2.8°C for Australia.

[178] In general, the surface of land masses warm more quickly than the ocean due to differences in reflectivity and heat capacity. The poles or land near the poles warm more quickly due to ice loss which would otherwise have a cooling effect. Other factors are also at play. See: e.g., https://climate.mit.edu/ask-mit/which-parts-planet-are-warming-fastest-and-why

201) The **intensity, frequency and duration of heatwave extremes are projected to increase in the future due to climate change.**[179] For example, **for every degree °C of global temperature rise, Australians will see about 16 more heatwaves days**, with the longest heatwave increasing in length by about 5 days.

202) Already **peak heatwaves that occurred only once per 30 years in pre-industrial (1861-1890) times in Australia**, can now be expected every 5 years. **At a global warming of 1.5°C** (which we are likely to experience by the mid-2030s), **this frequency will nearly double to once every 2.7 years.** In a world **with 3°C of average warming**, Australians will see such peak heatwaves **nearly every year**.[180]

203) **For Australia, warming of 2.0°C would be substantively different to that of 1.5°C** above pre-industrial temperatures. Added to the increased risks faced globally, the IPCC[181] has listed **Australia as a region where the change in risk in moving from 1.5°C of global warming to 2°C is particularly high with regard to**:

a) Water stress and drought,

b) Shifts in biomes in major ecosystems, including rainforests,

c) Changes in ecosystems related to the production of food,

d) Deteriorating air quality,

e) Declines in coastal tourism,

f) Loss of coral reefs, sea grass and mangroves,

g) Disruption of marine food webs, loss of finfish, ecology of marine species,

h) Heat-related mortality and morbidity, and

i) Ozone-related mortality.

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[179] Perkins-Kirkpatrick, S. E. & Gibson, P. B. (2017) Changes in regional heatwave characteristics as a function of increasing global temperature. Sci. Rep. 7, 12256.

[180] Perkins-Kirkpatrick, S.E. and Gibson, P.B. (2017) Changes in regional heatwave characteristics as a function of increasing global temperature. Nature Scientific Reports, 7: *12256.* DOI:10.1038/s41598-017-12520-2

[181] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

204) **Average global temperatures in the latter half of this century, and the heat waves they induce, depend critically on human actions over the next twenty years**. Because Australia's average warming is about 1.4 times the global mean (see footnote 178), **average warming in Australia before the end of this century may reach 2.7°C** (even for a rapid action SSP1-RCP2.6 sustainable pathway) **to as high as 7°C** (for a continued fossil fuel focused SSP5-RCP8.5 pathway) above pre-industrial levels.[182]

205) Based on the Keetch-Byram Drought Index (KBDI), an indicator of soil-moisture deficit, one study[183] finds that the climate conditions expected late this century (2070 – 2100) may result in high fire potential extending to seven months in Australia (August to February). **Extreme fire danger weather like that during the Black Summer bushfire season is projected to be four times more likely if global warming reaches 2°C, compared to conditions typical in 1900.**[184]

206) **Regional temperatures are key to fire development.** This is important because Australian temperatures are higher than global averages. Modelling indicates that *regional* warming of around 4°C or more above pre-industrial is sufficient to allow megafires to occur in southeast Australia irrespective of whether drought occurs simultaneously.[185] In other words, **if GHG emissions are not curbed sharply, Black Summer-like megafires may be a common Australia feature by late century even in years with plentiful rainfall**.

207) Specifically designed to study regions in Australia, the NSW/ACT Regional Climate Modelling (NARCliM)[186] project uses downscaled climate data over 50-km regions over all

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[182] Grose, M. R. et al. (2020) Insights from CMIP6 for Australia's Future Climate. Earth's Fut. 8, e2019EF001469.
[183] Liu, Y., J. Stanturf, and S. Goodrick (2010) Trends in global wildfire potential in a changing climate. *For. Ecol. Manage.*, **259**, 685–697, doi:10.1016/j. foreco.2009.09.002
[184] Oldenborgh, G.J. et al. (2020) Attribution of the Australian bushfire risk to anthropogenic climate change, Natural Hazards and Earth System Sciences Discussions, Accessed at: https://doi.org/10.5194/nhess-2020-69
[185] Sanderson, B. M. & Fisher, R. A. (2020) A fiery wake-up call for climate science. Nat. Clim. Change. 10, 175–177
[186] Herold, N. (2018) Australian climate extremes in the 21st century according to a regional climate model ensemble: Implications for health and agriculture, Weather and Climate Extremes, 20, 54–68, https://doi.org/10.1016/j.wace.2018.01.001

of Australia to measure climate changes from the 'recent past' (1990–2009), to what might be expected in the `near' (2020–2039) and `far future' (2060–2079).

208) The NARCliM 1.0 future projections **use a high-emissions scenario** (SRES A2).[187] **Current emissions are tracking along this scenario; whether they do in future will depend most critically on the extent to which fossil fuels contribute to the world's future energy mix.** When reading these projections, it is **instructive to note that an Australian born today will spend childhood and teen years in the 'near future', and middle age in the 'far future'**.

209) The NARCLiM 1.0 study[188] found the following results for Australia **under their high-emissions scenario**:

a) **Daytime temperature extremes are projected to increase by up to 3.5°C** in the far future, depending on season and location.

b) Heatwave frequency, number and duration will increase significantly in the near and far future. **All capital cities will experience, at minimum, a tripling of heatwave days each year by the far future compared to the recent past, with the effect more extreme in the north**.

c) **Implications for mortality are severe**, with projected future climates leading to increases in mortality due to high temperatures in all examined capital cities. As an example, **the number of heatwave days in Brisbane would increase from about 10 in the recent past to over 50 in the period centred on 2070, resulting in higher heat-related mortality** in the city.

d) Moderate to severe drought conditions are expected in the far future in the southwest and southeast of Australia during spring.

e) The **number of days at or above 30°C in the major Australian wheat-growing regions will increase substantially**, particularly during spring when wheat is most vulnerable

[187] According to NARCLiM, "The projected warming for SRES A2 for the 2090 to 2099 period, relative to 1980 to 1999, is given by IPCC AR4 as 2.0°C to 5.9°C, with a best estimate of 3.4°C."

[188] Herold, N. (2018) Australian climate extremes in the 21st century according to a regional climate model ensemble: Implications for health and agriculture, Weather and Climate Extremes, 20, 54–68, https://doi.org/10.1016/j.wace.2018.01.001

to temperature. Projected decreases in precipitation would **decrease the likelihood of meeting historical production levels.**

210) **The Australian Academy of Science has released a report**[189] **describing the risks to Australia should global warming reach 3°C or higher, as it is likely to if humanity continues its current emissions trajectory**. Some of the identified key risks to Australia at 3°C (over and above those at 1.5°C to 2°C) of global warming include:

a) **Extreme events such as heatwaves, severe storms, major floods, bushfires and coastal inundation from sea level rise would be more intense and frequent**.

b) **Many locations in Australia would become uninhabitable** due to projected water shortages.

c) Severe impacts to both flora and fauna would cause **many of Australia's ecological systems** to **become unrecognisable**,

d) Existing tree plantations would change substantially.

e) Fisheries and aquaculture industries would experience declines in profitability, and **many aquaculture fisheries enterprises may cease to exist**.

f) **Many properties and businesses would become uninsurable**.

g) **A decline in profits and business viability would likely lead to increased unemployment and possibly higher suicide rates**.

h) **Health issues related to heat stress and acute and chronic psychological stressors would increase**.

i) **Declining river flows would reduce water availability for irrigated agriculture and increase water prices**.

j) **Crop yields would decline by 5 to 50%, depending on location**.

k) **Sea level rise would transform Australia's coastal regions, with severe impacts on natural ecosystems, urban infrastructure and rural settlements, putting the health and wellbeing of many people at increasingly severe risk.**

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[189] Australian Academy of Science (2021). The risks to Australia of a 3°C warmer world (and references therein.) Accessed at: https:// www.science.org.au/warmerworld

6.2.4 Possible NT Futures

211) **Future climate change will increase many already deleterious impacts for the Territory.** The severity will depend on the level of global warming (and thus, emission trajectories) before net zero emissions is reached. Some risks are described below.

212) **The Northern Territory crosses two subcluster regions** used to project more local future effects of climate change, namely **Monsoonal North West** (incl. Darwin) and **Rangelands** (incl. Alice Springs).[190] (See Fig. 20).

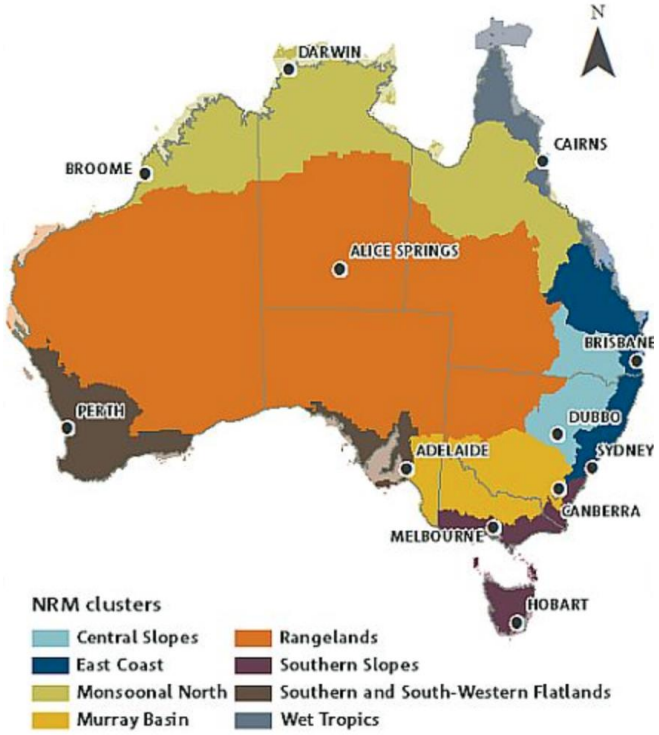

Fig. 20: Colour-coded regional clusters used to project future climate for Australia in the BOM and CSIRO `Climate Change in Australia' project.

213) Joint work[191] by the CSIRO and BoM **projects future climate conditions** by combining several global climate simulations with fine resolution "downscaled" data appropriate to local regions. **Both subclusters of the NT can expect the following in future**:

a) **Average temperatures will continue to increase in all seasons** (*very high confidence*)**.**

b) **More hot days and warm spells are projected** with *very high confidence***.**

c) **Increased intensity of extreme rainfall events is projected**, with *high confidence*.

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[190] Climate Change in Australia: NRM Regions. Accessed at: https://www.climatechangeinaustralia.gov.au/en/overview/methodology/nrm-regions/

[191] Climate Change in Australia: Regional Climate Change Explorer. https://www.climatechangeinaustralia.gov.au/en/projections-tools/regional-climate-change-explorer/sub-clusters/

d) **Mean sea level will continue to rise and height of extreme sea-level events will also increase** (*very high confidence*)**.**

In addition, in the **Monsoonal North West subcluster, in which the Project would be located, fewer but more intense tropical cyclones are projected** *with medium confidence*.

214) More days of extreme high temperatures can be expected in the NT. Darwin and Broome, for example, could experience days over 35°C on average for around a third of the year under an intermediate emission scenario (RCP4.5) by late in the century.[192]

215) NARCLiM 1.0 studies found that under their high-emissions scenario,[193] Darwin would experience 37 heatwave days per year in the near future (2020 – 2039) and 135 heatwave days per year in the far future (2060 – 2080), compared to only 11 such days per year in the recent past (1990 – 2009). Thus, **high emission pathways would create a future for Darwin in which four months of the year exhibit heatwave conditions.**

216) A report[194] prepared for the NT Government (hereafter, the Hub Report), spells out possible climate futures for the Territory based on projections from low (RCP2.6), medium (RCP4.5) and high (RCP8.5) emissions pathways for the near future (2030), mid-century (2050) and end of the century (2090). These emissions pathways are similar, but not identical to the SSP pathways displayed in Fig. 18. The RCP2.6, RCP4.5 and RCP8.5 pathways can be broadly associated with approximately at or slightly below 2°C, at or slightly above 2.5°C, and at least 4°C, respectively, by 2100.

217) The Hub Report indicates that:

a) **By the middle of the century, the number of days a year over 35°C will at least double in many places across the Territory**. Even steeper increases will occur at higher

[192] Climate Change in Australia: Regional Climate Change Explorer. https://www.climatechangeinaustralia.gov.au/en/projections-tools/regional-climate-change-explorer/sub-clusters/

[193] Herold, N. (2018) Australian climate extremes in the 21st century according to a regional climate model ensemble: Implications for health and agriculture, Weather and Climate Extremes, 20, 54–68, https://doi.org/10.1016/j.wace.2018.01.001

[194] NESP Earth Systems and Climate Change Hub (2020) Climate change in the Northern Territory: state of the science and climate change impacts. Accessed at: https://denr.nt.gov.au/__data/assets/pdf_file/0011/944831/state-of-the-science-and-climate-change-impacts-final-report.pdf

temperatures. For example, whereas Katherine has historically experienced 7 days above 40°C per year, these numbers are expected to increase 19 days (by 2030), 28 days (by 2050), 38 days (by 2090), under even an intermediate emissions scenario.

b) **Tropical cyclones in NT are projected to become less frequent but more intense**. **Coupled with higher sea levels, it is likely that flooding will increase in frequency and magnitude in the future for many coastal and estuarine regions in the NT**.

c) Tides, winds and severe weather systems can cause extreme sea-level events. **In the NT, tropical cyclones cause extreme storm surges. Rising sea levels will exacerbate the impacts of storm surges and other extreme sea-level events.**

d) The number of marine heatwave days per year their intensity is projected to increase throughout the century with the degree of change dependent on GHG emissions. **Under a high emissions pathway, the intensity of marine heatwaves could be double that of under a medium emissions pathway**.

e) **The acidity of the NT's coastal waters is projected at century's end to increase by 40% in an intermediate emissions scenario, and by 100% in a high emissions scenario.**

218) Specifically, in its Section 4.2.3, the Hub Report details how **increased global warming will affect the energy and minerals sector in the Territory**. These effects may include:

a) More frequent and intense natural disasters causing damage to energy infrastructure and equipment, disrupting construction and operations;

b) Disruption to production and transportation due to heavier flooding and rainfall;

c) Disruption to supply chains and movement of personnel and goods;

d) Increased threat to facilities from wildfire.

e) Increased threat of discharge of contaminated water in to surrounding areas due to heavy rainfall.

f) Health and safety risks from increased natural disasters and warmer temperatures.

219) In my view, the EMP does not adequately address increased Project risks due to climate change.

7 Why We are Tracking Toward more Dangerous Climate Change

220) The world is emitting greenhouse gases on a trend that would lead to substantially more dangerous climate change. Indications that this is the case, and explicit requirements for reversing this trend significantly and quickly enough to minimise the damage are discussed in this section of this Report.

221) Specifically, I outline:

a) how current Nationally Determined Contributions (NDCs) to the Paris Agreement are insufficient to hold warming to levels agreed by Paris Agreement signatories;

b) the shrinking remaining global 'carbon budget' to hold warming to various levels; and

c) the gap between current and planned production of fossil fuels and limiting global warming to 1.5° or even 2°C above pre-industrial temperatures.

7.1 National Contributions to the Paris Agreement

222) **The Paris Agreement[195] commits signatories to "holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C."** Signatory nations, such as Australia, have made separate, voluntary, NDCs as a first step to meet these goals.

223) In late 2019, it was estimated that the 2019 NDCs, if achieved, would result in global warming by 2100 of 2.9°C—3.4°C relative to pre-industrial levels, increasing thereafter.[196]

224) A recent UN report[197] estimates the current 'emissions gap' between levels of warming relevant to the Paris Agreement and current NDCs. Specifically, this gap for 2030 is the difference between the estimated total global GHG emissions resulting from the full implementation of the NDCs and the total global GHG emissions from least-cost scenarios

[195] UN (2015), Paris Agreement, Accessed from https://unfccc.int/sites/default/files/english_paris_agreement.pdf
[196] WMO 2019, United in Science, Report prepared for the UN Climate Action Summit 2019, https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf
[197] United Nations Environment Programme (2021) Emissions Gap Report 2021: The Heat is On – A World of Climate Promises Not Yet Delivered. Nairobi. Accessed at: https://www.unep.org/resources/emissions-gap-report-2021

that keep global warming to 2°C, 1.8°C or 1.5°C with varying levels of likelihood. Compared to previous unconditional NDCs, the **new pledges for 2030 reduce projected 2030 emissions by only 7.5%, whereas a 30% reduction (on 2010 levels) is needed for a 2°C limit and a 55% reduction is needed for 1.5°C**. The stark difference is illustrated in Fig. 21, which illustrates the declines that must occur by 2030 to achieve Paris Agreement goals.

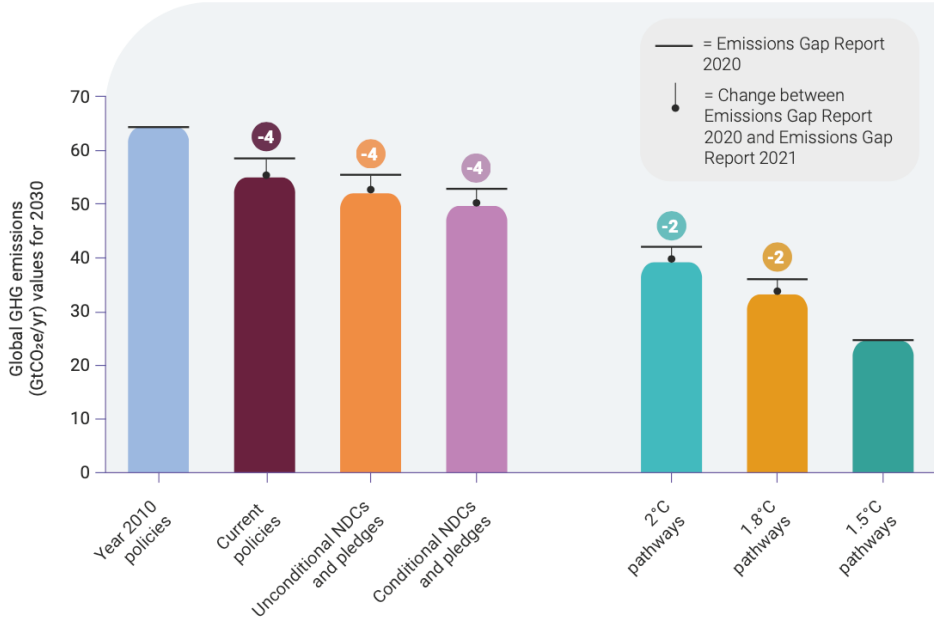

Fig. 21: Overview of GHG emissions in 2030 for different scenarios. Figure from the UNEP 2021 Emissions Gap Report.

225) In its most recent analysis, Climate Action Tracker[198] estimates that **global warming between 1.7°C and 2.6°C could result from current post-Glasgow pledges and targets — if honoured —** still falling far short of the Paris Agreement targets, but improved from expectations two years ago (see Fig. 22).

226) Aggravating this state of affairs, **most nations are not on track to meet their current commitments**, which if not corrected immediately, would result in even more warming. In fact, **based on current *policies* as opposed to *pledges*, warming could go as high as 3.6°C** (Fig. 22).[199]

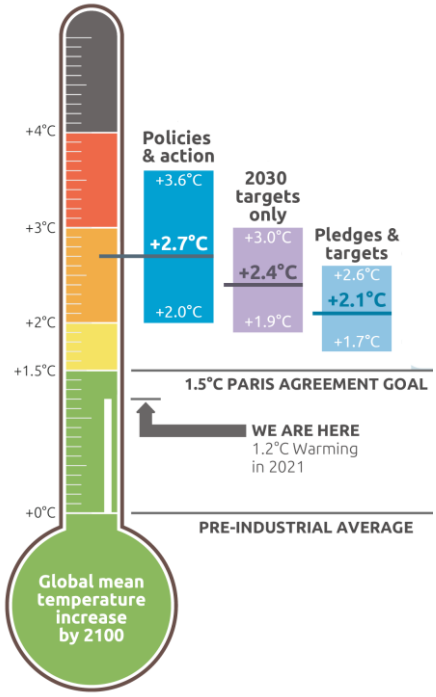

Fig. 22 (at right): Global warming projections based on pledges and policies of global nations. (Climate Action Tracker, November 2021 analysis).

[198] Climate Action Tracker (2022), https://climateactiontracker.org/ Accessed 7 June 2022.
[199] Climate Action Tracker (2022), https://climateactiontracker.org/ Accessed 7 June 2022.

227) A separate analysis indicates that **global warming might be held to `just' below 2°C if all conditional and non-conditional pledges to the Paris Agreement are implemented in full, on time, and extend indefinitely beyond the time frames for which they were promised**.[200] The analysis showed that **to improve upon this situation, 2030 targets must be strengthened, rather than 2050 targets.**

228) A very recent review[201] of the scientific literature concludes "**analyses of the alignment of current national targets with global temperature goals have unanimously concluded that targets are not yet sufficient to maintain temperatures within the 1.5°C to well below 2°C goal of the Paris Agreement.**"

229) The devastating consequences of a world 2°C and higher are discussed in Section 6.2 of this Report.

7.1.1 Australia's Nationally Determined Contribution

230) Australia did not update its NDC targets in 2020, whereas many other nations did so. However, on 16 June 2022, the newly-elected **Australian Government formally submitted a new Paris Agreement NDC**,[202] **committing to reduce Australia's emissions by 43% (on 2005 levels) by 2030,** recommitting to net zero emissions by 2050. Since Australia's emissions were 621.1 million tonnes (Mt) CO_2-e in 2005,[203] a reduction of 43% implies emissions in 2030 of no more than 354 Mt CO_2-e.

231) As Fig. 23 below shows, achieving such by 2030 would require Australia to follow the declining trend established in the period from around 2005 to 2015, but exceeded in subsequent years.

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[200] Meinshausen, M. et al. (2022) Realization of Paris Agreement pledges may limit warming just below 2°C, Nature, 604, 304.
[201] Matthew, H.D. and Wynes, S. (2022) Current global efforts are insufficient to limit warming to 1.5°C, in Science, 376, 1404-1409, 24 June 2022.
[202] Commonwealth of Australia (2022): https://www.pm.gov.au/media/stronger-action-climate-change
[203] National Greenhouse Gas Inventory, Accessed 26 June 2022 at https://ageis.climatechange.gov.au

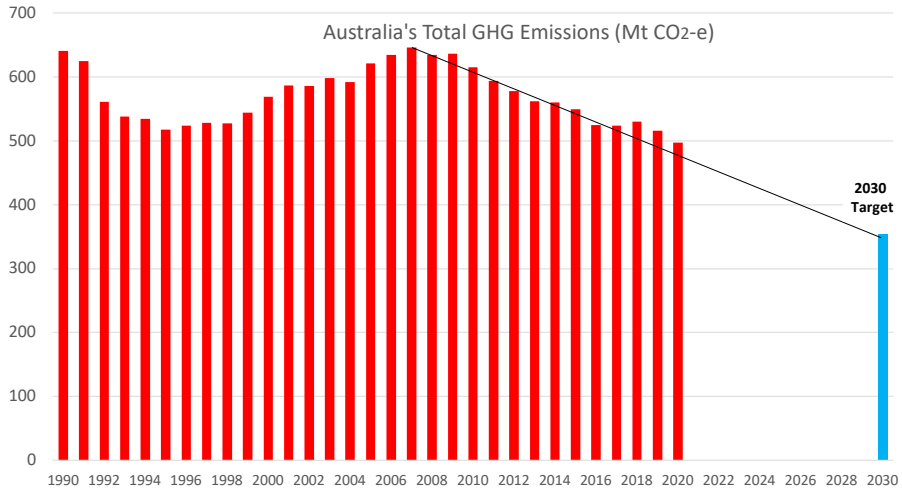

Fig 23: Australia's trend since 1990 in total `net' emissions reported for the Paris Agreement Inventory. The new 2030 NDC is shown in blue.

Data are from the NGGI website.

232) In analysis just completed (2 August 2022), Australia's overall climate targets, policies and climate finance have been rated `Insufficient' (by Climate Action Tracker; hereafter, CAT),[204] an upgrade on its previously `Highly Insufficient' rating. The improvement is primarily due to the new Labor Government in Australia strengthening the country's NDC target to a 43% reduction in GHG emissions below 2005 levels by 2030 (including Land Use, Land Use Change and Forestry; hereafter LULUCF). Nevertheless, **CAT states: "*While this represents a significant improvement on the last target, for a 1.5°C compatible target, Australia needs to adopt 2030 domestic reductions of at least 57%, and full fair share reductions, taking into account climate finance commitments, of at least 60% below 2005 emission levels*."**

233) Whilst CAT rates Australia's domestic target as `Almost Sufficient,' the nation's policies and actions, and its contributions to a `fair share' of global action, are rated `Insufficient' by CAT, and its contribution to climate finance as `Critically Insufficient.' Australia's 2030 domestic emissions reduction target is consistent with warming of 2°C if all other countries followed a similar level of ambition. Yet **under Australia's current policies, emissions will continue to rise and are consistent with more than 3°C warming if all other countries were to follow a similar approach.** Simply put, **Australia's `Insufficient' rating indicates that its climate policies and commitments are not Paris Agreement compatible.**

[204] Climate Action Tracker (2022), https://climateactiontracker.org/countries/australia/, https://climateactiontracker.org/climate-target-update-tracker/australia/ Accessed on 7 August 2022.

234) A recent independent report[205] has reassessed Australia's emissions targets, using the carbon budget methodology used by the Government-established Australian Climate Change Authority (CCA) to arrive at its 2014[206] and 2015[207] recommendations for Australian GHG reduction targets, namely, a 40 – 60% reduction on 2000 levels by 2030. **The new report concludes that in order to be consistent with holding warming to 1.5°C with just a 50% chance, Australia's 2030 emissions reduction target must be 74% below 2005 levels, with net-zero emissions reached by 2035. This level of emissions reduction by 2030 is nearly twice that of Australia's current Paris NDC**.

235) It is instructive to deconstruct Australia's emissions trends into the five main categories under which they are reported under the Paris Agreement: Energy, Industrial Processes, Agriculture, LULUCF and Waste. Fig 24 (below) shows this deconstruction.

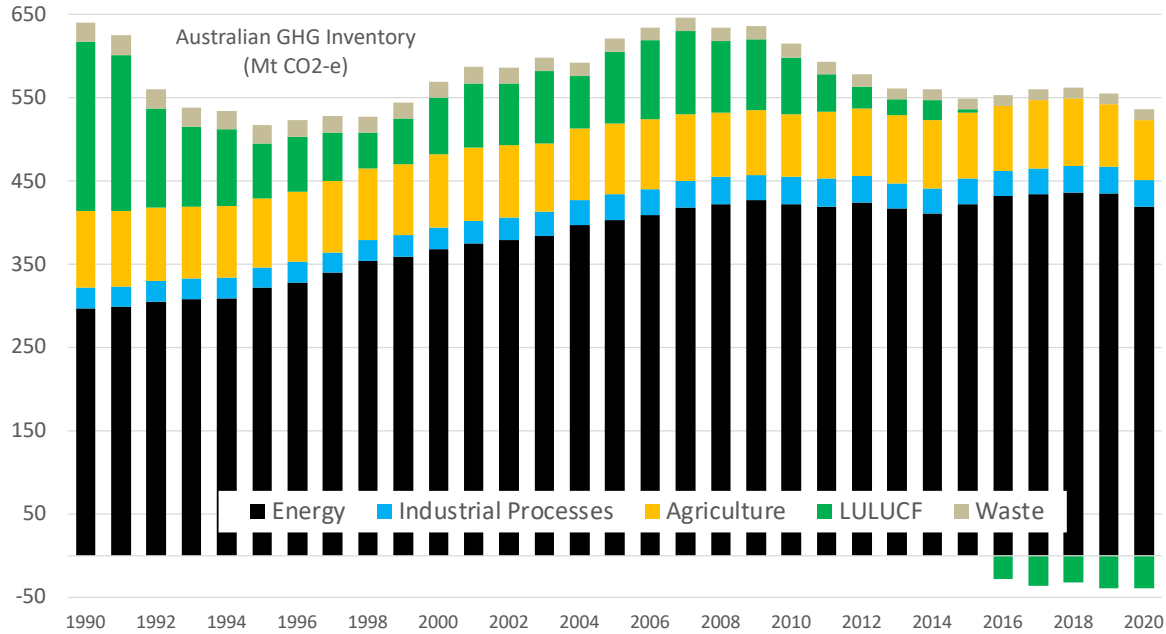

Fig 24: Australia's trend since 1990 in emissions (in Mt CO_2-e) over five main categories reported for the Paris Agreement Inventory. From bottom to top: black=energy; blue=industrial processes; gold=agriculture; green=LULUCF; and tan= waste. Data are from NGGI as of 29 June 2022.

[205] Hewson, J., Steffen, W., Hughes, L, and Meinshausen, M. (2021) Australia's Paris Agreement Pathways: Updating the Climate Change Authority's 2014 Emissions Reduction Targets, https://www.climatecollege.unimelb.edu.au/files/site1/docs/%5Bmi7%3Ami7uid%5D/ClimateTargetsPanelReport.pdf

[206] CCA (Climate Change Authority) (2014) Reducing Australia's Greenhouse Gas Emissions: Targets and Progress Review—Final Report, https://www.climatechangeauthority.gov.au/reviews/targets-and-progress-review-3

[207] CCA (Climate Change Authority) (2015) Final Report on Australia's Future Emissions Reduction Targets, https://www.climatechangeauthority.gov.au/sites/default/files/2020-07/Final-report-Australias-future-emissions-reduction-targets.pdf

236) Australian emissions from energy, which are overwhelming dominated by fossil fuels used in stationary energy and transport, have grown over time, with a slight dip in 2020 due primarily to COVID-19 restrictions. Emissions from industrial processes have also grown with time, whilst those from agriculture and waste have declined to 79% and 55% of their 1990 levels, respectively.

237) However, a key component in the general downward trend of reported Australian emissions is the LULUCF sector. **According to the latest Government reporting, LULUCF has gone from a net source of emissions, to a sink, masking the rise in emissions from the energy sector which in 2020 stood at 141% of its 1990 level**.

238) According to a 2021 report from the World Wildlife Fund,[208] Australia is the only developed nation[209] to have significant deforestation fronts where large areas of remaining forest are under direct threat and over which deforestation increased significantly in the period 2004 to 2017.

239) The Australian Government has regularly recalculated LULUCF for historical and projected emissions. The recalculations highlight the uncertainty of this sector: data changes have significant repercussions on Australia's progress in meeting emissions targets. Whilst the Government has announced an independent review[210] into the integrity of the Australian Carbon Credit Units (hereafter ACCU) scheme, **effective climate policy, particularly in the emissions-intensive energy and industry sectors, would reduce the need to rely on uncertain LULUCF carbon sinks**.

7.2 The Global `Carbon Budget'

240) In order **to stabilise the climate at a certain average global temperature, human greenhouse gas emissions must at some point drop to net zero**. The maximum

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[208] World Wildlife Fund International (2021) Deforestation Fronts: Drivers and Responses in a Changing World. Accessed at: https://wwf.panda.org/discover/our_focus/forests_practice/deforestation_fronts_/

[209] Also see: The Guardian (13 Jan 2021) Australia the only developed nation on world list of deforestation hotspots. Accessed at: https://www.theguardian.com/environment/2021/jan/13/australia-the-only-developed-nation-on-world-list-of-deforestation-hotspots

[210] Australian Government (1 July 2022) https://minister.dcceew.gov.au/bowen/media-releases/independent-review-accus

temperature reached is determined by cumulative net global anthropogenic CO_2 emissions up until the time of net-zero CO_2, the level of non-CO_2 radiative forcing[211] in the decades just prior, and the effects of feedbacks in the Earth system (see Section 3.7).[212]

241) **The 'carbon budget approach' is a conceptually simple and scientifically sound method to estimate the speed and magnitude by which emission reductions must occur in order to meet a desired warming target,**[213] **focussing on CO_2** as the primary greenhouse gas. This approach is used by the IPCC,[214,215] and was adopted by the Australian Climate Change Authority to form its 2014 recommendations[216] for Australia.

242) The manner in which CO_2 moves through the land, ocean and atmosphere is complex, but the full effect of these processes yields an ***approximately*** **linear relationship between** (see Fig 25 below):

a) The **'carbon budget'**: that is, **the cumulative amount of carbon**[217] **emitted as carbon dioxide from human actions since the beginning of industrialisation** (often taken to be about 1870), and

b) The increase in average global surface temperature since that time.

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[211] Radiative forcing is the difference between how much energy from the Sun is absorbed by the Earth, and how much energy is radiated back to space. If the net forcing is zero, the Earth will remain at a stable equilibrium temperature. Positive forcing causes the temperature to rise.

[212] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

[213] Collins, M. et al. (2013) Long-term climate change: Projections, commitments and irreversibility, in Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, edited by Stocker et al. Cambridge University Press, pp. 1029-1136.

[214] IPCC SR1.5 (2018) Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C. Accessed at: http://ipcc.ch/report/sr15/

[215] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

[216] CCA (Climate Change Authority) (2014) Reducing Australia's Greenhouse Gas Emissions: Targets and Progress Review—Final Report, https://www.climatechangeauthority.gov.au/reviews/targets-and-progress-review-3

[217] NB: Carbon budget numbers presented here are measured in the weight of carbon emissions, not carbon dioxide. CO_2 weighs more than the carbon it contains. CO_2-e, carbon dioxide equivalent, counts greenhouse gases whose effects have already been tallied in the budget.

243) The **budget is not annual, but cumulative: for all time—past, present and future. Once the carbon budget has been 'spent' (emitted as GHGs), emissions must be held to net zero**[218] from that point onward to avoid exceeding the target temperature. Carbon emissions budgets are generally calculated in either billions of tonnes of carbon (Gt C) or billions of tonnes of CO_2 (Gt CO_2). 1Gt CO_2 contains 0.273 Gt C.

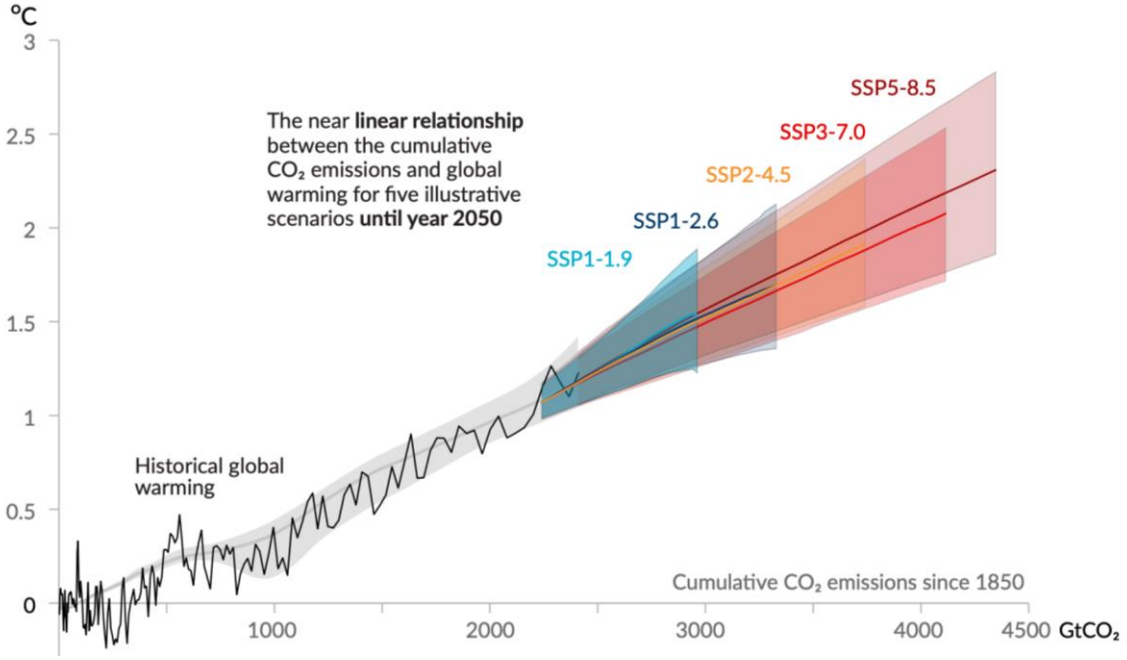

Fig. 25: Global surface temperature increase [on vertical axis in °C since the period 1850-1900] as a function of the cumulative CO_2 emissions [on horizontal axis in $GtCO_2$] projected out until the year 2050. This nearly linear (straight-line) relationship is the basis for computing a `carbon budget' for a particular amount of global warming. Figure is Fig. SPM.10 from the IPCC AR6 WGI Summary for Policymakers.

244) Several assumptions influence the size of the global carbon budget for a given warming target. Key among them are:

a) What is considered an 'acceptable' probability of meeting the target,

b) The date period used for 'pre-industrial,'

c) The accounting of other greenhouse gases (particularly CH_4 and N_2O),

d) Whether or not 'temporary overshoot' of the desired warming target is allowed, and

e) If, and how, carbon feedbacks in the climate system are accounted. Carbon feedback occurs when warming causes the Earth to release some of its own sequestered CO_2.

[218] NB: The term 'net zero' used here means that CO_2 emissions *into* the atmosphere are matched in magnitude by CO_2 removal *from* the atmosphere. Carbon capture and storage and many other `Negative Emission Technologies' are not yet viable at scale.

245) The goal is to ascertain the ***remaining*** **amount of carbon** (in the form of CO_2) **that humans can still release** into the atmosphere **without exceeding global warming at a prescribed level,** for example warming of 1.5°C. The *remaining* carbon budget, the amount humans have 'left to spend,' is **different from the total carbon budget, for three primary reasons**.

a) Substantial historical emissions from pre-industrial times through to the present have already been emitted, and must be subtracted from the total budget to arrive at the much smaller amount remaining.

b) Assumptions about the future emissions of *non*-CO_2 GHGs are implicit in carbon budget estimates. Should actual trajectories differ from those assumptions, the remaining carbon budget will change.

c) Some carbon cycle feedbacks, such as the abrupt shift of the Amazon rainforest to a savanna, GHG emissions from permafrost thaw, and the effects of increased wildfire are not accounted for in many Earth System models or in some carbon budget approaches. This could reduce the remaining carbon budget further.[219,220]

246) AR6 WGI [221] gives remaining carbon budgets for selected values of global warming and for selected likelihoods of holding warming to these values. These budgets are reproduced in Table 5 below.

247) Large uncertainties could push these remaining carbon budgets higher or lower, though neglected or underestimated positive carbon feedbacks will always work to decrease carbon budgets.

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[219] Ciais P et al. (2013) Carbon and Other Biogeochemical Cycles, in Climate Change 2013: The Physical Science Basis, Fifth Assessment Report of the IPCC, edited by Stocker TF, et al., Cambridge University Press, pp. 465–570, doi:10.1017/CBO9781107415324.015.

[220] Steffen W et al. (2018) Trajectories of the Earth System in the Anthropocene. *Proc. Natl. Acad. Sci. (USA)* doi:10.1073/pnas.1810141115 and associated Appendix https://www.pnas.org/content/pnas/115/33/8252.full.pdf

[221] IPCC (2021) Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, Table SPM.2, accessed at: https://www.ipcc.ch/report/ar6/wg1/#SPM

Table 5: Remaining global carbon budgets *from 2020* as given by IPCC AR6 for various temperature limits and success likelihoods

Approximate global warming relative to the period 1850-1900 until the temperature limit (°C)	Estimated remaining carbon budgets from the **beginning of 2020** (Gt CO_2) *Likelihood of limiting global warming to temperature limit*				
Temperature Limit	17%	33%	50%	67%	83%
1.5	900	650	500	400	300
1.7	1450	1050	850	700	550
2.0	2300	1700	1350	1150	900

248) Notably, higher or lower reductions in accompanying non-CO_2 GHG emissions could alter the carbon budgets by 220 Gt CO_2 or more. In this context, however, it is important to note that **AR6 carbon budgets** in Table 5 **assume that non-CO_2 emissions are reduced sharply as well. Specifically, for methane, this implies at least a 30% reduction in 2030 compared with 2010, and a 50% reduction in 2050**.[222]

249) At the moment, **global methane emissions are rising, which means that remaining carbon budgets are shrinking**. In fact, since 2012, CH_4 emissions have been tracking the *warmest* scenarios assessed by the IPCC[223], and atmospheric concentrations have been rising at an increasing rate since about 2006 (refer to Fig. 5).

250) In order to establish the *remaining* carbon budgets from the beginning of 2022, the budget quantities in Table 5 must be reduced by the total CO_2 emissions released in 2020 and 2021, namely by about 80 Gt CO_2 (equivalent to 21.1 Gt C).[224]

251) **In this Report, I focus on carbon budgets that correspond to at least a 67% chance (two-in-three chance) of meeting the indicated temperature target**, noting that a 50% likelihood is equivalent to basing the most critical of environmental outcomes on the flip of a coin. Table 6 (below) thus presents remaining carbon budgets from the beginning of 2022 for at least a 67% likelihood of limiting global warming to 1.5°C, 1.7°C and 2.0°C.

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[222] United Nations Environment Programme (2021). *Emissions Gap Report 2021: The Heat Is On – A World of Climate Promises Not Yet Delivered*. Nairobi. Accessed at: https://www.unep.org/resources/emissions-gap-report-2021

[223] Saunois, M. et al. (2020) The Global Methane Budget 2000 – 2017, Earth System Sci. Data, 12, 1561, https://doi.org/10.5194/essd-12-1561-2020

[224] Friedlingstein, P et al. (2021) Global Carbon Budget 2021, Earth Syst. Sci. Data https://essd.copernicus.org/preprints/essd-2021-386/

Table 6: Remaining global carbon budgets from 2022 for a 67% chance of holding warming to various temperature limits (rounded to the nearest 10 Gt CO_2)

Approximate global warming relative to the period 1850-1900 until the temperature limit	Paris Agreement Significance	Estimated remaining carbon budget from the **beginning of 2022** ($GtCO_2$)
Temperature Limit		*67% likelihood of limiting global warming to temperature limit*
1.5 °C	Required Level of Effort	320
1.7 °C	Consistent	620
2.0 °C	Not Consistent	1070

252) In order to place these quantities in perspective, global annual emissions are now estimated to have rebounded from a small decline caused by COVID-19 restrictions, and now stand at about 40 Gt CO_2 per annum.[225] Thus, **only about 8 years remain at current emission levels before the remaining 1.5°C carbon budget** (from Table 6) **is exhausted**. **This is one of many ways to understand why the period until 2030 is so critical.**

7.2.1 Net Zero by 2050 is Not Sufficient for Holding Warming to well-bellow 2°C

253) It is important to reinforce that obtaining net zero emissions by 2050, which is an aspirational goal for the Northern Territory[226], is not sufficient to ensure that global warming does not surpass 1.5°C–2.0°C above pre-industrial temperatures. **How emissions evolve in this decade to 2030 is considerably more important than whether net zero emissions are reached in 2050**.

254) Recent sharp increases in fossil fuel related emissions in the NT, if continued, would place the Territory well outside trajectories compatible with warming of less than 2.0°C. Fig. 26, from the NGGI, illustrates this dramatic rise.

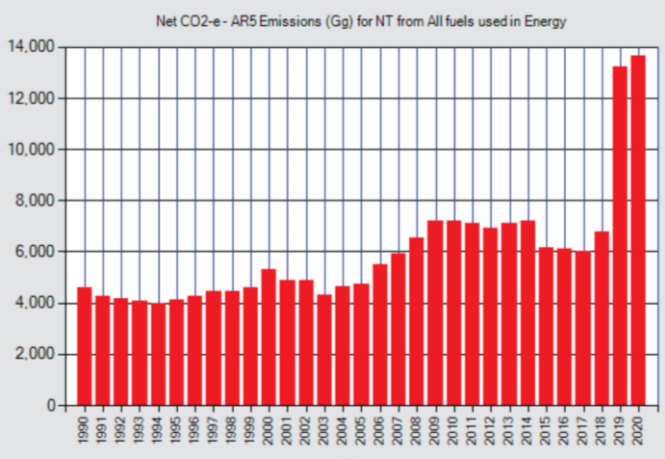

Fig. 26 (above): NT GHG emissions from fossil fuels from 1990 to 2020. Units are Gg (or Kt) CO_2-e.

[225] Friedlingstein, P et al. (2021) Global Carbon Budget 2021, Earth Syst. Sci. Data https://essd.copernicus.org/preprints/essd-2021-386/

[226] Northern Territory Government (2020) Northern Territory Climate Change Response: Towards 2050. Accessed at: https://climatechange.nt.gov.au/nt-climate-change-response/northern-territory-climate-change-response-towards-2050

255) Fig. 27 (below) illustrates that **reaching net zero by 2050 is, in and of itself, not sufficient to hold warming to 1.5°C – 2°C.** In this figure, I have constructed stylised (`example') emissions profiles for the NT as a function of time. All profiles use historical data from the NGGI,[227] begin at the same point in 2021 and end at the same point in 2050 with net zero emissions for the Territory. In that sense, **all the trajectories in Fig. 27 are `net-zero by 2050' trajectories**. In the intervening 30 years from 2021 to 2050, however, their evolution is quite different, with different consequences for compatibility with 1.5°C to 2°C of warming.

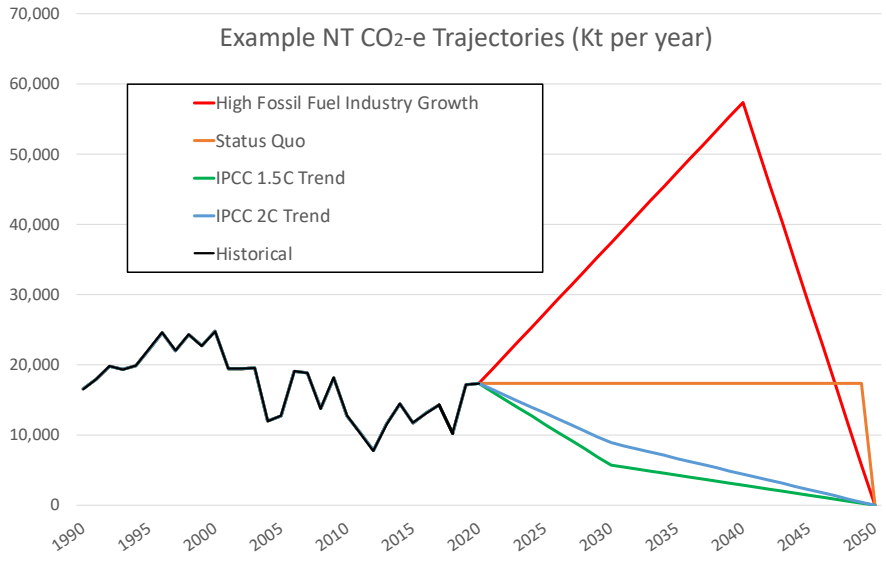

Figure 27: Four possible trajectories for the total emissions profile (measured in kilotonnes or Kt of CO_2-e) for the NT are shown. All trajectories are `net-zero by 2050' but only the blue and green trajectories are compatible with global warming of no more than 2°C.

256) In Fig. 27, the trajectory in red represents a case in which emissions from fossil fuel industries grow in the NT by 2,000 Kt CO_2-e per year until 2040, at which time emissions fall quickly (and probably unrealistically) to net zero by 2050.

257) Although the dramatic increase in emissions in the `red' scenario may seem exaggerated, it is not at all outside the realm of possibility given the sharp rise in fossil fuel related emissions of nearly 8,000 Kt in the NT over the past two years (see Fig. 26), and the possibility that the Beetaloo Basin may be opened for massive gas development. As Table 4 of this Report shows, Origin's proposed exploratory Project alone would generate between 376 and 2,155 Kt CO_2-e in total emissions, depending on the emissions scenario.

[227] National Greenhouse Gas Inventory (NGGI), maintained by the Australian Government. Accessed at http://ageis.climatechange.gov.au/

258) The trajectory of Fig. 27 in orange illustrates a case in which NT emissions are held constant until 2049, and then drop precipitously (and unrealistically) to net zero in 2050. The blue trajectory represents a path on which NT emissions would drop fast enough to meet the UN's derived target of at least a 30% drop (on 2010 levels) by 2030 to hold warming to 2°C,[228] and then dropping linearly to ensure net zero by 2050. The green trajectory drops fast enough to meet the UN's recommended target of 55% drop (on 2010 levels) by 2030 to hold warming to 1.5°C,[229] and the dropping linearly to ensure net zero by 2050.

259) These four stylised trajectories of Fig. 27 result in substantially different amounts of GHG emissions emitted into the atmosphere between 2021 and 2050, which can be calculated as the area underneath each curve during that time period. The red and orange trajectories place about 3 to 6 times more GHG into the atmosphere, respectively, than does the green trajectory and more than 2 to 5 times the GHG into the atmosphere than does the blue trajectory.

260) These **additional emissions associated with the time period 2021-2050 prevent the red, and orange pathways from being consistent with holding warming to 1.5°C to 2.0°C above pre-industrial times. Only the green or blue trajectories could meet that criterion, depending on the strength and evolution of Earth System feedbacks** (see Section 3.7).

261) The stylised trajectories of Fig. 27 are indicative and used here for illustrative purposes only. The aim of the figure is to illustrate that a net zero ambition by 2050 is not the same as an ambition to hold global warming to no more than 1.5°C to 2°C above pre-industrial temperatures, which can only be achieved by deep decreases in emissions (30% – 55% reduction on 2010 levels) by 2030 and sustaining emission reductions in the two decades that follow. To do otherwise is to leave those making the decisions in 20 years' time with a substantially warmer world.

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[228] United Nations Environment Programme (2021) Emissions Gap Report 2021: The Heat is On – A World of Climate Promises Not Yet Delivered. Nairobi. Accessed at: https://www.unep.org/resources/emissions-gap-report-2021

[229] United Nations Environment Programme (2021) Emissions Gap Report 2021: The Heat is On – A World of Climate Promises Not Yet Delivered. Nairobi. Accessed at: https://www.unep.org/resources/emissions-gap-report-2021

7.3 The Fossil Fuel Production Gap

262) The primary reason why current global policies place the world on track for about 3°C of warming is that future fossil fuel production is not being curtailed quickly.

263) A 2021 special report by the **IEA**[230] specifically designed for the **global energy sector** as a **roadmap** for achieving a net zero pathway (by 2050) listed (among other measures) **three significant milestones in the report's pathway that illustrate the scope of the changes required**:

a) **Beginning in 2021: No new oil and gas fields approved for development; no new coal mines or mine extensions; no new unabated coal plants approved for development.**

b) **By 2030: Phase-out of unabated coal in advanced economies.**

c) **By 2040: Phase-out of all unabated coal and oil power plants.**

264) A 2015 economic analysis **based on only a 50% chance of achieving 2°C** concluded that **a third of oil reserves,**[231] **half of gas reserves, and over 80% of coal reserves** (as defined in 2015) **must remain unused** from in the period from 2010 to 2050 **in order to meet a warming target of 2°C**, above Paris Agreement goals.[232]

265) Updating this work in 2021, a **new research** paper[233] estimates that in order to have **at least a 50% probability** of keeping the global temperature increase to about **1.5°C, 58% of oil, 59% of fossil methane gas, and 89% of coal reserves** (as identified in the 2018 reserve base) **must not be extracted**. This means that very high shares of reserves considered economic today cannot be extracted if the world is to meet a global warming target of 1.5 °C above pre-industrial temperatures.

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[230] IEA (2021) Net Zero by 2050: A Roadmap for the Global Energy Sector, accessed at: https://www.iea.org/reports/net-zero-by-2050

[231] Here, 'reserves' is taken to mean a subset of known resources that are defined to be recoverable under current economic conditions and have a specific probability of being produced.

[232] McGlade C and Ekins P (2015) The geographical distribution of fossil fuels unused when limiting global warming to 2°C. *Nature* 517: 187-190.

[233] Welsby, D, Price, J, Pye, S, and Elkins, P (2021) Unextractable fossil fuels in a 1.5C world, Nature, 597, Accessed at: https://www.nature.com/articles/s41586-021-03821-8

266) Underscoring this point are recent reports[234,235,236] that analyse the gap between different nations' expectations for the production of fossil fuels and the Paris Agreement warming target that the same nations support. The 2021 analysis shows that **governments are still planning to produce about 45% more fossil fuels by 2030 than would be consistent with a 2°C pathway and more than double than would be consistent with a 1.5°C pathway.**

267) **The disconnect between the intention to produce more fossil fuels and the simultaneous commitment to reduce emissions to meet the Paris Agreement has been called the `Production Gap.'** This Production Gap is illustrated in Fig. 28 below, taken from the latest Stockholm Environment Institute (SEI et al. 2021) report.[237]

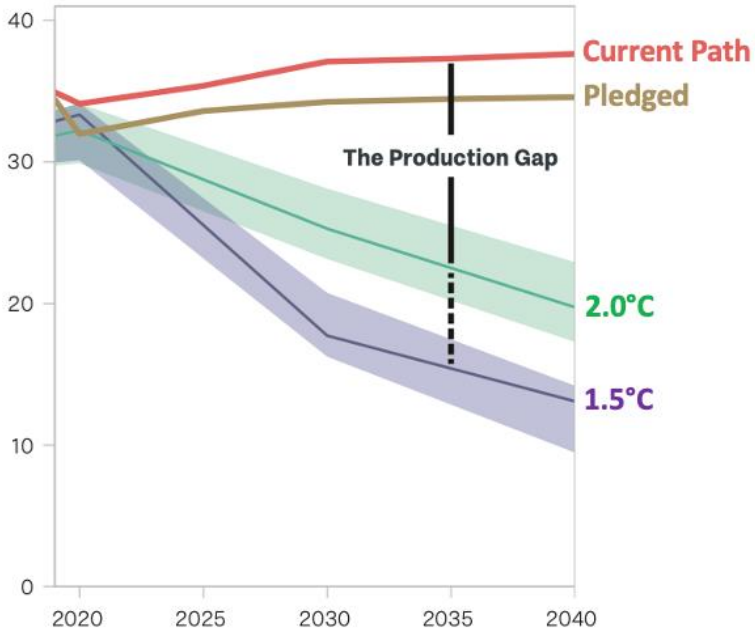

Fig. 28: Possible trajectories of global CO_2 emissions from all fossil fuels from 2019 to 2040 in units of $GtCO_2$ emitted in each year. In red is the current trajectory, whilst the gold line indicates what would be achieved if all Paris Agreement pledges were met. Lavender and turquoise trajectories reflect world fossil fuel production consistent with a 50% chance of holding warming to 1.5°C, or 66% chance of holding warming to 2.0°C, respectively. Shaded regions indicate uncertainty ranges for the 1.5°C and 2.0°C trajectories.

[234] SEI, IISD, ODI, Climate Analytics, CICERO, and UNEP (2019) The Production Gap: The discrepancy between countries' planned fossil fuel production and global production levels consistent with limiting warming to 1.5°C or 2°C. https://productiongap.org/2019report/

[235] SEI, IISD, ODI, E3G, and UNEP (2020) The Production Gap Report: 2020 Special Report. https://productiongap.org/2020report/

[236] SEI, IISD, ODI, E3G, and UNEP (2021) The Production Gap Report: 2021 Report. Governments' planned fossil fuel production remains dangerously out of sync with Paris Agreement limits. https://productiongap.org/2021report/

[237] SEI, IISD, ODI, E3G, and UNEP (2021) The Production Gap Report: 2021 Report. https://productiongap.org/2021report/

268) The world is emitting about 36 Gt CO_2 per year from fossil fuels[238] (see Fig. 7). By 2030, this must *drop* to about 18 Gt CO_2 per year or 26 Gt CO_2 per year in order to hold warming to 1.5°C or 2°C, respectively (central estimates). Yet, current global policies associated with fossil fuel production are consistent with *increasing* the fossil CO_2 to at least 2040. In other words**, it is primarily the `overproduction' of fossil fuels that is preventing the world from being on-track to meeting a global warming limit of 1.5°, or even 2°C**.

269) **Furthermore, the production of *each* of coal, oil, and gas must drop immediately and sharply before 2030 to provide sufficiently significant cuts before 2030 for even a 50% chance of holding global warming to 1.5°C, according to the Production Gap Report. For a 66% chance of holding warming to 2°C (which exceeds the Paris Agreement goal), the report concludes that oil and gas production must fall after 2030, and coal production must steadily and quickly decline well before 2030**.[239] (See Fig. 29 below).

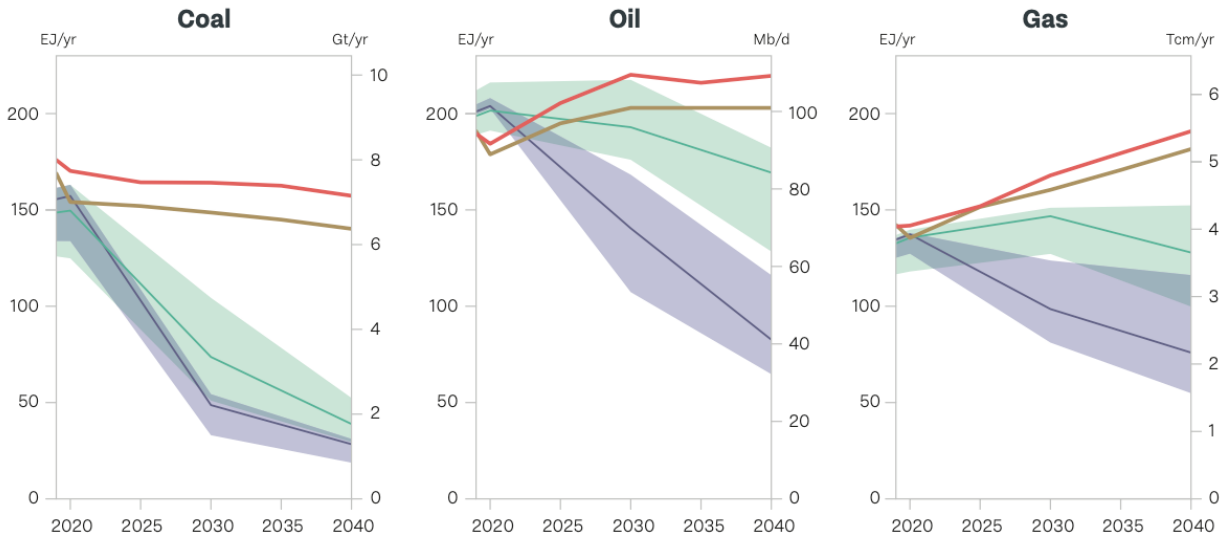

Fig. 29: Global emissions trajectories for coal, oil, and gas production based on current production and projections (red) and as implied by climate pledges (gold). Also shown is a range of trajectories consistent with holding global warming to 2.0°C with a 66% chance (light green), and with holding global warming to 1.5°C with a 50% chance (lavender). From SEI et al. 2021.[240]

270) Redressing this fossil fuel production gap cannot be met by *adding* fossil fuel development, even that which may have already planned. Instead, **new fossil fuel**

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[238] Friedlingstein, P et al. (2020) Global Carbon Budget 2020, Earth Syst. Sci. Data, 12, 3269-3340, https://doi.org/10.5194/essd-12-3269-2020 Table 6 on p3292 noting units there are GtC not $GtCO_2$.
[239]SEI, IISD, ODI, E3G, and UNEP (2021) The Production Gap Report: 2021 Report. https://productiongap.org/2021report/
[240]SEI, IISD, ODI, E3G, and UNEP (2021) The Production Gap Report: 2021 Report. https://productiongap.org/2021report/

development and expansion must cease, and ageing facilities brought to rapid close if global warming is to be halted at 1.5°C or even 2.0°C above pre-industrial times. The longer we wait, the more difficult the transition becomes.

7.3.1 Australia and the Production Gap

271) Australia's (and the Territory's) effect on global warming and climate change goes far beyond its direct emissions (or Scope 1) of greenhouse gases. **Australia has a large indirect contribution to climate change through the emissions of countries that burn our nation's exported fossil fuels. These are part of Australia's 'Scope 3' emissions.**

272) Although the *National Greenhouse and Energy Reporting Act 2007* (the NGER Act)[241] does not require reporting of Scope 3 emissions for Australian entities, all emissions arising directly or indirectly from an activity lead to global warming and climate change, regardless of where they are emitted. Thus, **all emissions, including Scope 3 emissions** released when fossil fuels are combusted by any end user, **must be included when considering the effect on the climate of a given activity. To do otherwise is to assume that the fuel is never used for its intended purpose.**

273) **Australia is the world's second leading exporter of coal** (by weight)[242] **and the largest exporter of LNG.**[243,244] Australia's annual production of coal has risen sharply over the past decades, and then dropped slightly as brown coal production has decreased. Black coal production has approximately levelled over the past five years.

274) Australia's production of gas has risen dramatically since about 2014 (see Fig. 30 below), outstripping by nearly a factor of four the nation's consumption of gas in the last reported year. Part of the reason for the increase in Australia's consumption of gas is that the gas industry itself is a large consumer of gas, particularly to prepare the product for

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[241] Accessed at: https://www.legislation.gov.au/Details/C2019C00044
[242] International Energy Agency (2021) Coal 2021 https://www.iea.org/reports/coal-2021
[243] International Gas Union (IGU 2021), 2021 World LNG Report.
https://www.igu.org/resources/world-lng-report-2021/
[244] The US Energy Information Administration indicates that the US became the world's largest LNG exporter in the first half of 2022.
https://www.eia.gov/naturalgas/weekly/archivenew_ngwu/2022/07_28/

export. In recent years the gas industry's consumption of gas has been somewhat larger than the amount of gas used to generate electricity in country.[245,246]

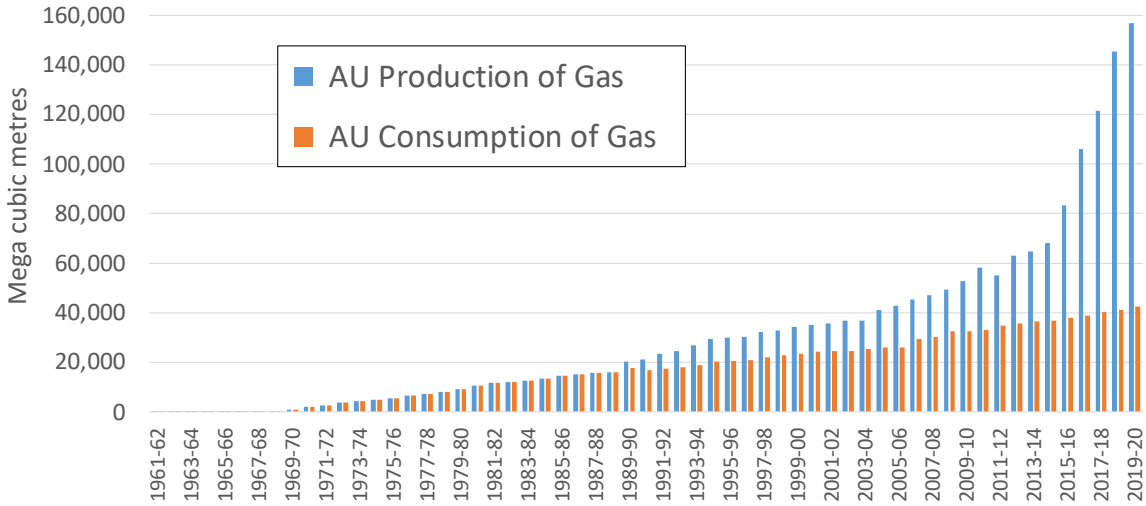

Fig. 30: Australia's production and consumption of gas (in mega cubic metres, Mcm) is shown for every fiscal year from 1961-62 through 2019-20. Data are from Australian Government (2021) Australian Energy Statistics, Table Q2 and Q2, Dept of Industry, Science, Energy and Resources, September 2021. Data were accessed at: https://www.energy.gov.au/publications/australian-energy-update-2021

275) The Commonwealth Government is anticipating steady coal production through 2030.[247] **Australian Government modelling published in 2021 anticipates (Scope 1 and 2) emissions from coal mining to remain constant over the period 2019 to 2030, implying that the total amount of coal extracted annually will stay approximately the same over this period. Oil and gas extraction emissions are projected to *rise* by 7% over the period.[248] These forecasts are highly inconsistent with trends in coal, gas and oil production required to hold warming to 1.5°C, and for coal, highly inconsistent with even holding warming to 2.0°C** (see Fig. 29).

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[245] Geoscience Australia (2021) Gas. Accessed at: https://www.ga.gov.au/digital-publication/aecr2021/gas (see Fig. 8) and https://www.energy.gov.au/publications/australian-energy-update-2021

[246] Australian Government (2021) Australian Energy Update (2021) https://www.energy.gov.au/publications/australian-energy-update-2021 See Energy Flows Chart.

[247] Department of Industry, Science, Energy and Resources (2021) Australia's emissions projections 2021. See their Tables 8, 9, 15 and associated text. Accessed at: https://www.industry.gov.au/data-and-publications/australias-emissions-projections-2021

[248] Department of Industry, Science, Energy and Resources (2021) Australia's emissions projections 2021. See their Tables 8, 9, 15 and associated text. Accessed at: https://www.industry.gov.au/data-and-publications/australias-emissions-projections-2021

276) Recent international reports have analysed Australia's projections,[249,250] **concluding that Australia's extraction-based** (also called production-based) **emissions**[251] **from fossil fuel (coal and gas) production are expected to nearly double by 2030 compared to 2005 levels**, indicating that **Australia is a major contributor to the Production Gap**[252] **between global intended fossil fuel production and the Paris Agreement target for global warming**. In this sense, **Australia is indirectly working against global warming being held to 1.5°C (and even to 2.0°C), through the large Scope 3 emissions associated with its fossil fuel production, which is primarily for export**.

277) Comparison of the historical plot of Australia's gas production (Fig. 30) with the future trend in gas production required in order to hold global warming to between 1.5°C to 2.0°C (Fig. 29, right panel) reveals the **huge magnitude of reduction required if Australia is to align its gas production with Paris Agreement targets**. This challenge will be exacerbated by continuing approval of new or extended coal and gas developments.

278) **Recent analysis indicates that 29% of Australia's fossil methane gas reserves (as of 2018)**[253] **– and globally 56% of all such reserves – must stay in the ground in order for the world to have a 50% chance of holding warming to 1.5°C**.[254] The corresponding numbers for coal are 95% and 89%, respectively.

279) So-called `committed emissions' from proposed or existing fossil fuel infrastructure are incompatible with holding warming to 1.5°C,[255] implying that **staying below 1.5°C may**

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[249] SEI, IISD, ODI, Climate Analytics, CICERO, and UNEP. (2019). The Production Gap: The discrepancy between countries' planned fossil fuel production and global production levels consistent with limiting warming to 1.5°C or 2°C. http://productiongap.org/

[250] SEI, IISD, ODI, E3G, and UNEP. (2020). The Production Gap Report: 2020 Special Report. https://productiongap.org/2020report/

[251] `Extraction-based' emissions are part of a system of accounting that attributes greenhouse gas emissions from the burning of fossil fuels to the location of fuel extraction. It is an alternate, scientifically valid way to account for emissions.

[252] SEI, IISD, ODI, Climate Analytics, CICERO, and UNEP. (2019). The Production Gap: The discrepancy between countries' planned fossil fuel production and global production levels consistent with limiting warming to 1.5°C or 2°C. http://productiongap.org/

[253] Here, reserves is taken to mean resources that are technically and economically proven given market conditions at the time of study, which is 2018.

[254] Welsby, D, Price, J, Pye, S, and Elkins, P (2021) Unextractable fossil fuels in a 1.5C world, Nature, 597, Accessed at: https://www.nature.com/articles/s41586-021-03821-8

[255] Tong, D. et al. (2019), Committed emissions from existing energy infrastructure jeopardize 1.5 °C climate target, in Nature, 572, 373-7.

require governments and companies not only to cease licensing and development of new fields and mines, but also to prematurely decommission a significant portion of those already developed.[256]

[256] Trout, K. et al. (2022) Existing fossil fuel extraction would warm the world beyond 1.5°C, in Environ. Res. Letters, 17, 064010.

8 The Origin Exploration Project and Climate Change

280) In this section of the Report, I respond to the specific questions posed in the EDO brief.

8.1 Is the Project consistent with limiting warming to 1°5C or well below 2°C?

281) The phrase 'well below 2°C' is widely associated with the UNFCCC Paris Agreement[257] that commits signatories to "**keeping a global temperature rise this century well below 2°C above pre-industrial levels** and to pursue efforts to limit the temperature increase even further to 1.5°C." But it is important to stress that this would be **the scientifically advisable goal whether the Paris Agreement existed or not, because (a) it is still achievable from a carbon budget point of view** (see Section 7.2) **and (b) temperatures of 2.0°C and above are associated with grave consequences and compounding risks to ecosystems and humans** (see Section 6.2).

282) **The most important step to achieving this goal is to dramatically reduce the production of fossils fuels – the overwhelming cause of anthropogenic climate change** (see Fig. 7). **The deepest and swiftest reduction must occur in coal production** (see Fig. 20, left panel), which must drop worldwide by a minimum 67% between 2020 and 2030 for a flip-of-coin chance (50%) of holding warming to 1.5°C.[258] Coal production must drop by a minimum of 36% in this period to hold warming to 2°C (with a 67% chance). **But this drop cannot come at the expense of increased gas production** (see Fig. 29, right panel). Rather **gas production too must decline over the current and following decade in order to keep warming well below 2°C**.

283) **Recent approval of new or extended gas or coal production in Australia has been inconsistent to holding warming to well-below 2°C, let alone 1.5°C, and continuing this trend with the approval of this Project exacerbates this situation.**

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[257] UN (2015), Paris Agreement, Accessed from https://unfccc.int/sites/default/files/english_paris_agreement.pdf

[258] SEI, IISD, ODI, E3G, and UNEP (2021) The Production Gap Report: 2021 Report, using data provided in Supplementary Information. https://productiongap.org/2021report/

284) The Project seeks to explore the Velkerri formation in the Beetaloo Sub-basin for potential commercial development of shale gas production via hydraulic fracking. According to Geoscience Australia[259], the **Beetaloo Sub-basin may contain 7,423 peta Joules (PJ)[260] of contingent unconventional (shale) gas resources**, based on documents from Origin. If this gas were recovered and combusted, it would result in an enormous release of CO_2 into the atmosphere, even setting aside the associated methane emissions associated with leakage and venting, and additional GHGs associated with processing and transport. Using the emission factors given in Table 2 of the National Greenhouse Accounts Factors[261] for the consumption of natural gas distributed in a pipeline, **7,423 PJ of combusted natural gas would result in 382.5 million tonnes (Mt) of CO_2-e released into the atmosphere, equivalent to 22 times the GHG emissions NT recorded in 2020.**[262]

285) **Simply put, approving new gas fields or exploratory gas ventures predicated on producing vast amounts of new gas, such as the Origin Exploration Project, is not consistent with holding warming to 2°C, let alone warming *well below* 2°C.** Further, **it would be difficult to reconcile with the spirit of NT's stated intent to reach net zero by 2050,[263] given the advice of the IEA** (see paragraph 263) **that beginning in 2021, no new oil and gas fields should be approved for development, nor new coal mines or mine extensions** for consistency with its Net Zero by 2050 plan for the global energy sector.

8.2 Is the assessment of cumulative GHG emissions as described in the EMP adequate?

286) **The Project EMP appears to interpret `cumulative GHG emission' as the sum of emissions from this Project and previously-approved activities related to exploration in**

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[259] Geoscience Australia (2021) Gas. Accessed at: https://www.ga.gov.au/digital-publication/aecr2021/gas

[260] 1 PJ = one thousand million million Joules or 10^{15} Joules

[261] National Greenhouse Accounts Factors (2021) Table 2 https://www.industry.gov.au/data-and-publications/national-greenhouse-accounts-factors-2021

[262] Using data from National Greenhouse Gas Inventory (NGGI), maintained by the Australian Government. Accessed at http://ageis.climatechange.gov.au/

[263] NSW Government (2021) Net Zero Plan Stage 1: 2020-30 Implementation Update. Accessed at: https://www.environment.nsw.gov.au/research-and-publications/publications-search/net-zero-plan-stage-1-2020-30-implementation-update

this specific area. Section 4.20.1 of the EMP states: "*The total worst case (135-day average well test at 12 sites) cumulative annual emissions for Origin's current approved, proposed and potential activities are anticipated to be 172,937 tCO2-e, peaking in 2024*." **This is a curious interpretation with regard to any pollutant, particularly GHGs.**

287) Generally, cumulative effects are considered when a project or activity would add to pollutants or other quantities already in place. The question then becomes, not what would be the effect of this project alone, but rather what would be the effect of the Project given pre-existing conditions.

288) Greenhouse gases are a pollutant released into the atmosphere, most of which are well-mixed on relatively short time scales with global GHGs released from other human activities. The **cumulative effect of these GHGs causes climate change, and climate damages and risks to the people and environment of the NT.** Furthermore**, the cumulative effects are maintained for decades, centuries and millennia.** It is therefore **appropriate and in fact necessary,** in my view, **to consider the cumulative effect of GHGs when assessing the impact of the Project.**

289) Consequently, in my view, **Origin's submission as to the cumulative GHG effects of the Project are irrelevant and misplaced**. It is, in fact, only a repetition of the estimates of released GHGs from past and proposed activities related to this Project. **From an environmental perspective, the question is: Given that the world is already experiencing dangerous climate change that is having a detrimental effect on the Northern Territory, does the addition of this exploration Project, with the intent of recovering 7,423 PJ of natural gas for combustion represent an acceptable risk? In my opinion, the answer to that question would be no.**

8.3 Will 'beneficial use' of the gas significantly reduce Project climate impacts?

290) **The `beneficial use' of the shale gas released by this Project, as described in the EMP's beneficial use: 24-month scenario, would considerably worsen the climate impacts of the Project.** This is most easily seen by referring to Table 4 of this Report (and the explanatory text in paragraph 128), which demonstrates that the total GHGs released to the atmosphere from this scenario would be about four times larger than the `worst

case' 135-day well testing scenario, due to the emissions associated with combusting the additional gas.

291) **If some of the gas from the 90-day or 135-day well test scenarios presented in the EMP could be recovered for use on site, then there may be a climate benefit compared to flaring all of the appraisal gas**, given the respective national GHG account factors for flaring vs consumption of natural gas. **However, it is difficult to see how this would result in a large improvement, since most of the Project energy use occurs before the gas begins to flow and there would be a need to build additional infrastructure to allow gas use on site.**

8.4 Is future shale gas development likely to be 'net zero' with respect to Scope 1&2?

292) The Project EMP asserts (on its page 81): "*It is anticipated that a future shale gas development will be net zero scope 1 and 2 emissions, through the utilisation of world's best practice emission reduction technology, such as field electrification, flare minimisation strategies, use of renewable energy sources and procurement of emission offsets*." No further evidence is provided to buttress this claim.

293) Currently, shale gas is production is dominated by the United States (US).[264] Without technical expertise in hydraulic fracking to release shale gas, **I refer to actual data from the US GHG Inventory[265] to source trends in emissions from gas wells with hydraulic fracking; these data do not indicate an approach to net zero Scope 1 and 2 emissions from hydraulic-fracked gas development.**

294) Table 3.6-2 of the Methodology Annexes for the Natural Gas and Petroleum Systems in the US GHG Inventory gives average emission factors for each source considered, including average CO_2 and CH_4 emission factors for gas wells with hydraulic fracturing and non-associated (that is, not associated with oil extraction) gas wells without hydraulic fracturing. Over 30 years' experience in the US, reported CH_4 emissions per hydraulic gas

[264] https://www.naturalgasintel.com/what-country-is-the-largest-producer-of-shale-gas/
[265] US Environmental Protection Agency (April 2022) National Gas and Petroleum Systems in the GHG Inventory Additional Information. Accessed at: https://www.epa.gov/ghgemissions/natural-gas-and-petroleum-systems-ghg-inventory-additional-information-1990-2020-ghg

well have grown and then levelled, whilst CO2 emissions have remained approximately constant, as Fig. 31 below shows.

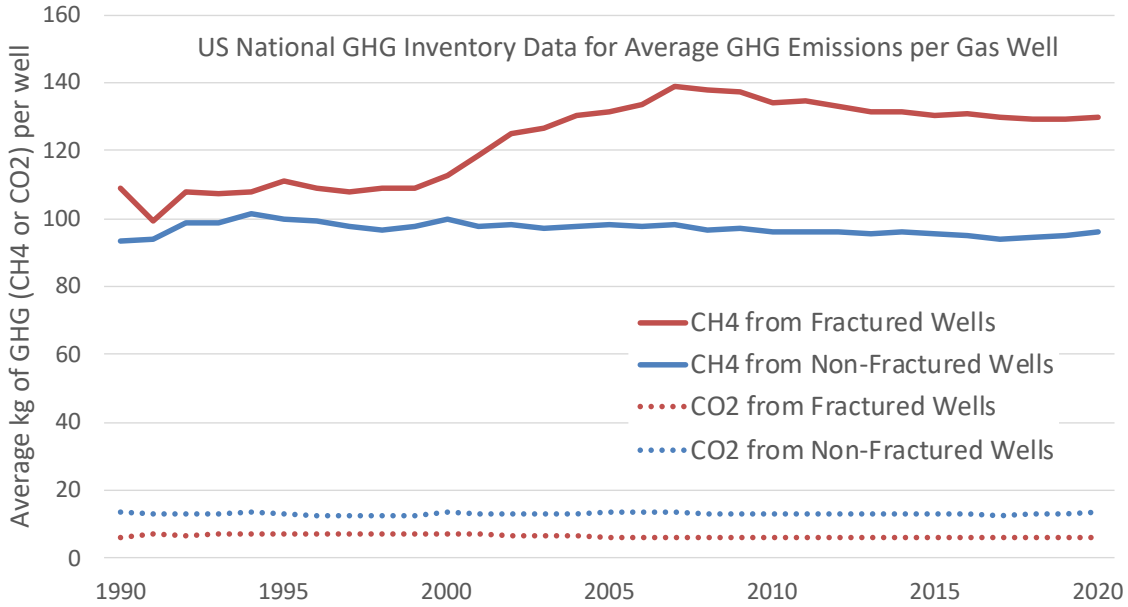

Fig. 31: Average CH_4 and CO_2 emissions (in kg/well) from fractured and non-fractured wells in the US over 30 years. Data from the US EPA (2022).

295) I conclude that evidence suggests that actual Scope 1 emissions from unconventional (fracked) gas production are not approaching net zero, but to the contrary, have flat-lined over the past 5 to 10 years. Furthermore, scientifically, it is not credible to that remaining Scope 1 (or Scope 2) emissions can be substantially offset through the purchase of carbon credits, as discussed in Section 8.6.

8.5 Does replacing coal with gas for electricity generation reduce emissions by 50%?

296) The Project EMP asserts (on its page 81): "*Based upon the life cycle assessment analysis of a similar (but different) unconventional gas development in Australia completed by the Gas Industry Social and Environmental Research Alliance (GISERA) (Heinz 2019), the current net climate benefits of using natural gas in replacing coal for electricity generation is up to 50% less emissions (Heinz 2019).*"

297) I assume that the article referred to by Origin in paragraph 296) is Schandl et al. (2019),[266] where I have used the convention of referring to articles by the surname of the first author rather than by their given name. This work was supported by the GISERA, the Gas Industry Social and Environmental Research Alliance, whose funding partners include Origin. **This research quoted by Origin in the Project EMP examined potential whole-of-life costs for a particular coal seam gas to LNG project in Queensland, not costs of fractured shale gas developments, which involve entirely different technology. Consequently, I do not view the Schandl et al. (2019) work as relevant to the Project.**

298) Specifically, the Schandl et al. (2019) reference of up to 50% emissions reductions if gas were substituted for coal in electricity generation only apply to the particular coal seam gas project it studied in Queensland, and only for the gas being used domestically via Closed Cycle Gas Turbine (CCGT) generation. For Open Cycle Gas Turbine domestic generation, the Schandl research quotes a 31% reduction compared to coal. If the gas is converted to LNG for export, the GHG reduction savings are even less.

299) **It is not possible to calculate a single number for the GHG effect of switching from gas to coal for electricity generation. This is because switching may involve the need for new infrastructure (with associated embedded GHGs in its build), because coal- and gas-fired power plants each show variance in their efficiencies, and because the supply chains associated with coal and gas production vary widely in their GHG footprint**.

300) A recent study examining coal to gas switching **in China**,[267] for example, indicates that in the short term, **fuel switching can increase GHG radiative forcing by a factor of 3 or decrease it by 70%**.

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[266] Schandl, H., Baynes, T., Haque, N, Barrett, D. and Geschke, A. (2019) Final Report for Final Report for GISERA Project G2 - Whole of Life Greenhouse Gas Emissions Assessment of a Coal Seam Gas to Liquefied Natural Gas Project in the Surat Basin, Queensland, Australia. Accessed at: https://gisera.csiro.au/whole-of-life-greenhouse-gas-assessment-final-report-released/

[267] Rosselot, K.S., Allen, D.T. and Ku, A.Y. (2021) Comparing Greenhouse Gas Impacts from Domestic Coal and Imported Natural Gas Electricity Generation in China, ACS Sustainable Chem. Eng. 9, 8759-8769. Accessed at: https://pubs.acs.org/doi/10.1021/acssuschemeng.1c01517

8.6 Scientific assessment of the Project's proposed emissions offset plans

301) The EMP outlines an offset plan for the Project in Section 4.20.2 of the EMP indicating that Origin proposes to offset a *percentage* of residual greenhouse gas emissions. Specifically, Origin indicates that it will offset residual emissions as per follows:

a) "That residual emissions be offset using credible carbon credit units approved by the Commonwealth Clean Energy Regulator."

b) "Minimum offset levels shall increase year-on-year by 3.7% (based on a baseline financial year of 2023) to result in a linear decrease in residual emission levels to net zero by 2050 as per the following schedule:

i) Financial year 2023: 3.7% of total emissions offset

ii) Financial year 2024 7.4% of total emissions offset

iii) Financial year 2025: 11% of total emission offset

iv) Financial year 2026 14.7% of total emissions offset

v) Financial year 2027 18.4% of total emissions offset"

302) **Offsetting a percentage of emissions (even if the offset is scientifically valid) means that the remainder of the emissions are definitively contributing to climate change.** As discussed in Sections 7.2 and 7.2.1, **it is the remaining carbon budget, not an eventual decline to net zero emissions by 2050 that is most vital to the level of warming, and thus the effects of climate change.**

303) The Origin offset schedule indicated in 301)b) (assuming that it continues to decline at this rate through 2049), implies that an activity generating the same amount of GHG emissions per year from 2022 to 2049, will be offset in total emissions over that period by 50%, not 100%.

304) **In addition, reliance on offsets is unlikely to significant lower the GHGs associated with climate change**, for the following reasons outlined below.

305) **First, offsets do not reduce global GHG emissions. At best, they negate emissions that have already been released. In order to do so, they must remove the same *amount*, and the same *type* of GHG at the same *time* as the original emissions occur, and they must come from an activity that would not have occurred without the offset.** These conditions are required for a true offset because different GHGs have different GWPs and

because the original emission will cause some warming in the time that elapses between the emission and a later offset.

306) **Second, scientifically, GHGs from fossil fuels cannot be 'offset' – in a climate sense – with biological GHG sinks**.[268] This is because the GHG emissions from fossil fuels add GHGs back into the atmosphere that have not been there for millions of years. Offsets that use biological systems (such as trees, for example) to draw down GHGs (particularly carbon dioxide) will return most of those gases to the atmosphere when they die and decompose in natural cycles of years to centuries. In addition to being temporary, biological offsets can take time to take effect and may be subject to later destruction through changed land practices or, for example, fires exacerbated by climate change itself.

307) **Third, it is becoming increasingly well-recognised that many offset programs are ineffective in producing real reductions in GHGs**. A 2022 research study[269] concluded that "California's forest offsets program creates incentives to generate offset credits that do not reflect real climate benefits" and that nearly a third of the credits offered no real climate benefits. Using satellite data, it has been claimed that Indonesian credits were sold for amounts that exceeded the possible carbon sink.[270] The ineffectiveness of biological credits has been called out by insiders and previous proponents with considerable experience in such programs, both in Canada[271] and in Australia,[272,273] where

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[268] Watts, K. (2015) Fossil and biological carbon: a tonne is not a tonne, Carbon Market Watch. Accessed at: https://carbonmarketwatch.org/publications/policy-brief-fossil-and-biological-carbon-a-tonne-is-not-a-tonne/

[269] Badgley, G. et al. (2022) Systematic over-crediting in California's forest carbon offsets program, in Global Change Biology, 28: 1433-1445. Accessed at:

[270] Nikkei (2021) Indonesian carbon credit project appears to betray its purpose. Accessed at: https://asia.nikkei.com/Spotlight/Environment/Climate-Change/Indonesian-carbon-credit-project-appears-to-betray-its-purpose

[271] Bloomberg (17 March 2022) This Timber Company Sold Millions of Dollars of Useless Carbon Offsets, Accessed at: https://www.bloomberg.com/news/articles/2022-03-17/timber-ceo-wants-to-reform-flawed-carbon-offset-market

[272] Australian Financial Review (23 March 2022) Former watchdog goes public with carbon credit `fraud' claims. Accessed at: https://www.afr.com/policy/energy-and-climate/former-watchdog-goes-public-with-carbon-credit-fraud-claims-20220323-p5a77o

[273] The Guardian (23 March 2022) Australia's carbon credit scheme `largely a sham', says whistleblower who tried to rein it in. Accessed at: https://www.theguardian.com/environment/2022/mar/23/australias-carbon-credit-scheme-largely-a-sham-says-whistleblower-who-tried-to-rein-it-in

up to 80% of the carbon credits issued by Australia's Clean Energy Regulator have been claimed to be flawed in producing their intended purpose.

308) The conclusion is that **the primary way to reduce GHG emissions is to prevent them from entering the atmosphere in the first place, not by relying on so-called `offsets.'**

8.7 Further Observations

309) The EDO Brief indicated that I might add further relevant observations, which I do in this section of the Report.

8.7.1 The Special Importance of Methane

310) Estimates for Project fugitive methane emissions from the EMP, using a GWP potential of 28, as per current NGER regulations, **are given as 16,401 tCO_2-e**; these assess the effects of CH_4 over a 100-year time scale, namely to 2120 and beyond. **However, on timescales appropriate for potential shale gas development and an approach to net zero by 2050, 20-year times scales are relevant, in which case a GWP of 82.5 for CH_4 is** (see paragraph 84) **is appropriate.**

311) **Over 20-year times scales, the global warming effect of Project fugitive emissions is three times higher, namely equivalent to the effect of the release of 48,325 tCO_2.** This highlights the enormous climate damage over a relatively short period of time that could be done if the Beetaloo Sub-basin were opened up to gas shale development.

312) **The consequences of methane release for climate change are actually even worse that this factor of three on 20-year timescales**. This is because, even though CH_4 from Project fugitive emissions will leave the atmosphere more quickly than would CO_2, the increased warming it causes in the shorter term could increase feedbacks in the Earth System and speed the onset of irreversible tipping points in the Earth System (see Sections 3.7, 3.8). Indeed, **a recent report**[274] studying methane sinks and sources **concludes that the climate sensitivity to methane is likely four times greater than given in AR6 WGI**,

[274] Cheng, C-H. et al (2022) Impact of interannual and multidecadal trends on methane-climate feedbacks and sensitivity. Nature Communications, 13: 3592. Accessed at: https://www.nature.com/articles/s41467-022-31345-w

which would make **CH_4 a more potent accelerant of global warming than previously thought**.

313) Adding to the concern about **methane emissions** is the fact that they **are being underreported in global GHG inventories**. Using satellite monitoring and other data, the IEA has released[275] a study concluding **that global energy sector methane emissions are 70% higher than reported** by governments around the world.

314) In my view, independent satellite or other airborne monitoring of sufficient spatial and temporal scope to reliably verify reported methane emissions should be used in Australia. Until such a time that such is available, proceeding with new oil, gas or coal developments carries manifold risks in addition to those outlined elsewhere in this Report.

8.7.2 Precautionary Principle and Intergenerational Equity

315) As this Report has set out, **the effects of climate change – which are caused by anthropogenic GHG emissions – are already serious; more than that, they are in fact dangerous. Furthermore, some of these effects are already irreversible and more will become so with even relatively small amounts of additional warming beyond that of 1.5°C, which is already locked in**.

316) Every tonne of GHG emission leads to (more) dangerous warming. It is not possible to know which amount, from which source, will precipitate environmental subsystems, including those in NT, to tip irreversibly. In this context, the Precautionary Principle certainly applies.

317) Unabated climate change is likely to be greatest overall threat to the environment and people of NT because it is comprehensively dangerous, global, fundamental, rapid, compounding, self-reinforcing, has delayed effects and, in some cases, is irreversible.

318) In my opinion, **environmentally sustainable development is development that avoids the catastrophic risks that climate change poses, noting the special nature of climate**

[275] IEA (23 February 2022) Global Methane Tracker 2022. Accessed at: https://www.iea.org/reports/global-methane-tracker-2022

change as a risk not only to the natural environment, but also human health, well-being and livelihoods.

319) **The argument** put by Origin **that Project emissions represent a very small fraction of NT emissions is irrelevant and misleading. If individual consent authorities around the world were to accept this argument and act upon it to approve fossil fuel expansion projects, the climate change predicament would, *per force*, continue to worsen.**

320) **The climate change externalities of the Project will be borne disproportionately by younger and future generations, with no clear recourse or path to remediation.** Given that any future emissions 'lock in' extra warming, there is no possibility for true `remediation' of the climate damages caused by emissions from the Project. These damages include deterioration in the health, diversity and productivity of the environment, and have direct consequences for human health and livelihood. Currently, **the `polluter pays' principle is certainly not being applied to the damages associated with GHG emissions**.

9 Concluding Remarks

321) The report of the **Independent Scientific Inquiry into Hydraulic Fracturing of Onshore Unconventional Reservoirs in the NT**[276] was released in 2018. Chapter 9 of that report, which deals with GHG emissions, **concluded that** in order to meet what the Inquiry considered to acceptability criterion, **GHG emissions must be fully offset and** there must be **no net increase in the life cycle GHG emissions emitted in Australia from any onshore shale gas produced in the NT**. The Project EMP has not demonstrated compliance with either of these conditions.

322) I reiterate that the 2021 special report by the **IEA**[277] specifically designed for the **global energy sector** as a **roadmap** for achieving a net zero pathway (by 2050) listed (among

[276] Accessed at: https://frackinginquiry.nt.gov.au/inquiry-reports/final-report
[277] IEA (2021) Net Zero by 2050: A Roadmap for the Global Energy Sector, accessed at: https://www.iea.org/reports/net-zero-by-2050

other measures) **three significant milestones in the report's pathway that illustrate the scope of the changes required**:

a) **Beginning in 2021: No new oil and gas fields approved for development**; no new coal mines or mine extensions; no new unabated coal plants approved for development.

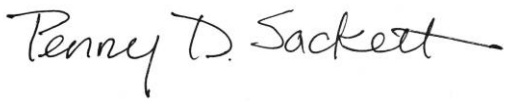
b) By 2030: Phase-out of unabated coal in advanced economies.

c) By 2040: Phase-out of all unabated coal and oil power plants.

It is now 2022, with eight years remaining to 2030.

323) In conclusion**, based on the evidence presented in this Report** (refer to the Executive Summary, Section 2), **including the enormous risks posed by global warming surpassing 2°C, including irreversible consequences, and the potentially enormous contribution of the shale gas development in NT in increasing that likelihood,** it is my view that **any benefits of the Project to the Territory are far outweighed by costs borne by the majority of NT inhabitants, particularly the youngest.**

Respectfully submitted on 14 August 2022,



Professor Penny D Sackett

Appendix A: Brief Provided to Author by the EDO

See attached pages.

Environmental Defenders Office

5 August 2022

Professor Penny Sackett

By email: penny.sackett@anu.edu.au

CONFIDENTIAL AND PRIVILEGED

Dear Professor Sackett,

Request to provide expert evidence: Origin B2 Pty Ltd ORI11-1 EMP for EP 98 (Amungee NW Delineation Program)

1. We act for Lock the Gate in relation to the Origin Energy B2 Pty Ltd (**Origin**) ORI11-1 Amungee NW Delineation Program on Exploration Permit (**EP**) 98 in the Beetaloo Sub-Basin (**Project**). The Environment Management Plan (**EMP**) for the Project is currently on public exhibition.

2. We are instructed to request, as set out below, your independent expert advice in relation to the adequacy of the assessment of greenhouse gas (**GHG**) impacts in the EMP, and that you prepare a report containing that advice. We note that your report may accompany any submission about the Project lodged by our client.

Primary purpose to provide independent expert advice

3. We note as a preliminary matter that our primary purpose in briefing you is to request independent expert advice in your area of expertise. We do not ask you to be an advocate for our client. You are requested to prepare an independent report that is clear and well-written.

4. In this respect, we draw your attention to the NT Supreme Court Practice Direction for Expert Reports and the Expert Witness Code of Conduct (**Code of Conduct**). A copy of the Code of Conduct is available at: https://supremecourt.nt.gov.au/__data/assets/pdf_file/0010/727507/expert-reports-6-of-2015.pdf

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5. While the Code of Conduct relates to court proceedings, we are of the view that it should be adhered to in this instance. Although your report is not intended to be adduced as evidence in a court of law and you are not bound by the rules of evidence, we consider it prudent that you comply with the rules of evidence and the expert Code of Conduct should this matter progress to court at a later stage.

6. Clause 2 of the Code of Conduct states that:

   An expert witness is not an advocate for a party and has a paramount duty, overriding any duty to the party to the proceedings or other person retaining the expert witness, to assist the Court impartially on matters relevant to the area of expertise of the witness.

7. In providing your opinion you must set out all the assumptions upon which the opinion is based. This may include, for example, facts observed as a result of desktop / computational analyses, fieldwork or 'assumed' facts based on a body of scientific opinion. If the last, you should provide references which demonstrate the existence of that body of opinion.

8. Your expert report must also set out the process of reasoning which you have undertaken in order to arrive at your conclusions. It is insufficient for an expert report to simply state your opinion or conclusion reached without an explanation as to how this was arrived at. The purpose of providing such assumptions and reasoning is to enable the decision maker and experts engaged by other parties to make an assessment as to the soundness of your opinion.

Background

9. Both the Federal and NT Governments regard the Beetaloo Sub-Basin in the Northern Territory as a prime location for unconventional gas extraction from shale deposits, using hydraulic fracturing. Gas development is currently limited to a small number of exploratory wells, but that will change dramatically in four years if government plans materialise with 200–300 operational wells drilled per year (The Beetaloo Strategic Basin Plan, 2021). The natural gas resource is estimated at 178,200 petajoules (**PJ**).

10. Origin's ORI11-1 Project aims to confirm the technical and commercial feasibility of the Velkerri dry gas shale resource and is key to future development of a massive gas field in the Beetaloo Sub-Basin. If the Project is approved, Origin will conduct seismic surveys, construct exploration and appraisal well sites, and conduct hydraulic fracture stimulation and well testing of up to twelve new exploration and appraisal wells within the area of its EP 98.

11. Origin submitted the EMP for the Project on 12 July 2022. Section 4.20 of the EMP (from p. 72) covers the anticipated GHG emissions from the Project. In this section, Origin canvasses three potential scenarios: extended production testing (EPT) for 90 days, for 135 days, and for 730 days, with 'beneficial use' being made of the appraisal gas under the 730-day scenario. Origin asserts that this last scenario would significantly lower the climate impacts of its proposed work programme. Origin does not include any analysis of scope 2 or 3 emissions in the EMP under any of the three scenarios.

12. The prospect of 'beneficial use' (i.e., third-party sale via the nearby MacArthur River pipeline, or on-site combustion for power generation) of appraisal gas has not been raised in any Beetaloo exploration EMP to date, to our knowledge. The final report of the Scientific Inquiry into Hydraulic Fracturing in the NT made 135 recommendations, including that there be no net increase in Australia's greenhouse gas emissions from the development of an onshore gas in the Territory (rec. 9.8). All of these recommendations are supposed to be implemented prior to development in the Beetaloo reaching the 'production' stage. Many recommendations remain incomplete. In particular, the NT Government has not released a clear plan for achieving recommendation 9.8.

13. The NT Government is currently seeking comments on the EMP. The EMP is required to be approved by the Minister for Environment before gas exploration activities can begin. Any person can make a submission on the EMP during the public exhibition period of 28 days, and the Minister is required to consider these submissions before approving the EMP.

14. The *Petroleum (Environment) Regulations 2016* (NT) (**PER**) establish the process for assessment and approval of EMPs. The Minister can only approve an EMP if the Minister is reasonably satisfied that the approval criteria have been met. The approval criteria include, relevantly:
    a. The EMP includes all information required under Schedule 1 of the PER, such as:
        i. assessment of environmental impacts and risks (including cumulative impacts);
        ii. demonstration of how all 'legislative requirements' (including the *Code of Practice: Onshore Petroleum Activities in the Northern Territory* (**Code of Practice**)) will be met; and
        iii. arrangements for recording, monitoring and reporting information.
    b. The EMP demonstrates that all environmental impacts will be reduced to a level that is 'as low as reasonably practical' and 'acceptable'.

15. Relevantly, Part D of the Code of Practice provides for minimising GHG emissions from petroleum activities. The *National Greenhouse and Energy Reporting Act 2007* (Cth) sets out annual reporting obligations relating to GHG emissions from the Project.

16. Under the *Environment Protection Act 2019* (Cth), s 48, a proponent must refer to the NT Environment Protection Authority (**NT EPA**) for assessment any proposed action that has the potential to have a significant impact on the environment. A 'significant impact' is defined as an impact of major consequence having regard to: (a) the context and intensity of the impact, and (b) the sensitivity, value and quality of the environment impacted on and the duration, magnitude and geographic extent of the impact.

17. Origin has determined, based on its self-assessment, that there is no potential for a significant environmental impact warranting referral to the NT EPA (EMP, p. 26).
18. We are instructed that our client intends to make a submission about the EMP for the Project. The deadline for public submissions is 15 August 2022.

19. On behalf of our client, we are seeking your independent expert advice on the adequacy of the climate assessment contained in the EMP.

Overview of work requested

20. We request that you undertake the following work:
    a. review the documents listed below;
    b. prepare a written expert report that addresses the issues identified below ('Issues to address in your expert report'); and
    c. ensure that the work is prepared in accordance with the Code of Conduct.

Documents

21. The EMP documents are available on the NT Department of Environment, Parks and Water Security website: https://depws.nt.gov.au/onshore-gas/environment-management-plan/origin-energy-b2-pty-ltd-environment-management-plan-for-the-amungee-nw-delineation-program.

22. Additional documents that may be of use are referenced within the issues to address, below.

23. Please let us know if you require any further information to complete your advice.

Issues to address in your expert report

24. We ask that your report sets out your opinion on the following issues regarding climate change and associated risks arising as a result of the Project:
    a. In your opinion, is the Project consistent with a goal of limiting anthropogenic climate change to 1.5 or well below 2 degrees Celsius above pre-industrial levels? Please provide reasoning for your response.
    b. In your opinion, is the assessment of cumulative GHG emissions associated with the Project as described in the EMP adequate?
    c. In your opinion, will 'beneficial use' of the gas significantly reduce the climate impacts of the Project, considering the extended testing time-frame under the beneficial use scenario, scope 3 emissions, and potential emissions from land-clearing and construction to facilitate beneficial use?
    d. Is it credible for the EMP to assert that a future shale gas development will be 'net zero' scope 1 and 2 emissions (see p 81)?
    e. Is it credible for the EMP to assert that the current net climate benefits of replacing coal with gas for electricity generation reduce emissions by 50% (see p 81)?
    f. In your opinion, is the Project's proposed offset plans for emissions scientifically reasonable and feasible?
    g. Provide any further observations or opinions which you consider to be relevant.

Key dates

25. Public comments on the Project EMP close on 15 August 2022. To allow our client time to complete its submission on the EMP, we request your final expert advice by no later than **Friday, 12 August 2022**.

Duty of confidentiality

26. Please treat your work as strictly confidential, unless authorised otherwise by us. Please mark all documents prepared for the purposes of this brief as "Privileged & Confidential".

Fees and Terms

27. Thank you for agreeing to provide your advice in this matter for a capped fee of **$5000.** EDO relies on experts such as you to assist in matters with very little financial compensation.

28. Please note the following terms:

    a. your work will only be used by EDO to relation to the matters raised above;
    b. EDO and/or our clients may choose to make your expert advice publicly available. Any public release of your report may result in disclosure of any works in your report over which you may claim copyright;
    c. EDO will take all reasonable steps to prevent your work being used for purposes other than that mentioned above, but we accept no responsibility for the actions of third parties;
    d. regardless of the above points, EDO may choose not to use your work; and
    e. you will not be covered by the EDO's insurance while undertaking the above tasks.

29. If you would like to discuss this brief further, please contact Sarah Shin on 0431 645 669 or email sarah.shin@edo.org.au (cc: edward.butler@edo.org.au).

We are grateful for your assistance in this matter.

Yours sincerely,

Environmental Defenders Office

Sarah Shin

Solicitor, Safe Climate

5 August 2022

Appendix B: Curriculum Vitae of Author

See attached pages.

Appendix B

Curriculum Vitae
PENNY D. SACKETT

Academic Address:

ANU Institute for Climate, Energy and Disaster Solutions
Australian National University
H.C Coombs Building, 9 Fellows Road,
Acton ,ACT 2601
Penny.Sackett@anu.edu.au

Private Business Address:

Dr Penny D Sackett
Strategic Advisory Services
1/6 Hobson Place
Ainslie, ACT 2602
www.pennysackett.com

Born: 28 February 1956, Lincoln, Nebraska USA
Citizenship: U.S. and Australian
Permanent Residence: Australia
Languages: English: Mother Tongue; Dutch: Good knowledge; Spanish: Beginner's knowledge

Education:

1984	Ph.D. in Physics, University of Pittsburgh, PA, USA Thesis Title: *Scale Parameters for Finite Temperature Actions of Lattice Gauge Theories Coupled to Fermions*
1980	M.S. in Physics, University of Pittsburgh, PA, USA
1978	B.S. in Physics, University of Nebraska-Omaha (UNO), NE, USA
1978	Teaching certification (K-12), Physics and Mathematics, UNO, USA

Distinctions and Honours:

2019	Distinguished Alumni Award, University of Pittsburgh, USA
2016	Omaha (USA) North High Magnet School "Viking of Distinction" Award
2014	UNO College of Arts and Sciences Outstanding Alumni Award
2014	Citation for Alumni Achievement: Univeristy of Nebraska-Omaha (UNO)
2011	Opening Keynote Speaker: 2011 Adelaide Festival of Ideas, SA, Australia
2005	Univ of Canberra-Australian National Univ International Women's Day Lecturer
2004	Finalist, Telstra ACT Business Women of the Year, ACT, Australia
2003	Fellow of the UK Royal Astronomical Society *Election to the Society to honour a person eminent in the field of astronomy and not normally resident in the UK for leadership, enabling activities, etc*
2002	Harley Wood Lecturer, Astronomical Society of Australia
2000	Athena Lecturer, St. Andrews University, Scotland
1998	University of Groningen Teaching Award (Onderwijsprijs), The Netherlands
1992-1994	J. Seward Johnson Fellow, Institute of Advanced Study, Princeton, NJ, USA
1981-1982	O.H. Blackwood Award for Excellence in Teaching, University of Pittsburgh, PA, USA
1979-1981	Andrew Mellon Fellowship, University of Pittsburgh, PA, USA
1978	Summa Cum Laude, University of Nebraska-Omaha, NE, USA
1978	Most Outstanding Physics Student, University of Nebraska-Omaha, NE, USA
1978	Most Outstanding Mathematics Student, University of Nebraska-Omaha, NE
1974-1978	Dean's List, University of Nebraska-Omaha, NE, USA
1974-1978	Nebraska Regent's Scholarship, University of Nebraska-Omaha, NE, USA
1974-1978	National Merit Scholarship, University of Nebraska-Omaha, NE, USA

Professional Society Membership

Astronomical Society of Australia
International Astronomical Union
Royal Astronomical Society

Professional Activity and Appointments

2020-current	Distinguished Honorary Professor (E3), Institute for Climate, Energy and Disaster Solutions Australian National University, Canberra, Australia *Climate change synthesis and analysis, community engagement*
2011-current	Strategic Scientific Advisor and Principal Penny D Sackett Strategic Advisory Services *Sole trader assisting governments, communities, courts and business with matters of science, climate change and sustainability*
2014-2019	Honorary Professor, Climate Change Institute, Australian National University, Canberra, Australia *Community engagement, science for policy, subnational climate change action*
2008-2014	Academic Adjunct Professor, Research School of Astronomy and Astrophysics, Australian National University, Canberra, Australia *Mentoring early career researchers*
2008-2011	Chief Scientist for Australia, DIISR, Australian Commonwealth Government, Canberra, Australia *Provision of independent, whole-of-government scientific advice, science advocacy, liaison with community, bureaucracy and state governments*
2007-2008	Professor (Level E2), Research School of Astronomy and Astrophysics, Australian National University (ANU), Canberra, Australia *Research, research training, and international research co-ordination*
2002-2007	Director, Research School of Astronomy and Astrophysics, and the Mt. Stromlo and Siding Springs Observatories, ANU, Canberra, Australia *Strategic leadership, budget, human & facility management, liaison, advocacy*
2001-2002	Chaired Professor of (Extra)Galactic Optical/Infrared Astronomy, Kapteyn Astronomical Institute, University of Groningen, The Netherlands *Research, research training, teaching, international program building*
1998-2000	Associate Professor with tenure (Universiteits Hoofd Docent), Kapteyn Astronomical Institute, University of Groningen, The Netherlands *Research, research training, teaching, international program building*
2000	Visiting Member, Institute for Advanced Study, Princeton, NJ, USA (on leave from Kapteyn Institute 1999-2000 academic year) *Research of international standing*
1999	Visiting Scientist, Anglo-Australian Observatory, Epping, Australia (on leave from Kapteyn Institute 1999-2000 academic year) *Research of international standing and international co-ordination*
1995-1997	Assistant Professor with tenure (Universiteits Docent), 75% full time Kapteyn Astronomical Institute, University of Groningen, The Netherlands *Research, research training, teaching, research program building*
1995-1997	Visiting Research Member, School of Natural of Sciences, 25% full time Institute of Advanced Study, Princeton, NJ, USA *Research of international standing*
1992-1994	Research Member & J. Seward Johnson Fellow, School of Natural of Sciences, Institute of Advanced Study, Princeton, NJ, USA *Self-directed research of international standing*

1991-1992	Program Director, Education, Human Resources and Special Programs, Div of Astronomical Sciences, National Science Foundation, Washington, DC, USA *Program management, cross-division initiatives, external liaison*
1990-1992	Research Assistant Professor, Physics and Astronomy Department, University of Pittsburgh, PA, USA *Self-directed research*
1987-1990	Adjunct Assistant Professor, Physics and Astronomy Department, University of Pittsburgh, PA, USA *Self-supported research post*
1988-1989	Visiting Scientist, Kapteyn Astronomical Institute, University of Groningen, The Netherlands *Self-directed independent research*
1987	Scientific Writing Consultant, Pittsburgh Supercomputing Center (PSC), Pittsburgh, PA, USA *Technical writing and editing*
1986-1987	Research Associate, Biological Sciences Department, University of Pittsburgh, PA, USA *Algorithm development and application to cellular activity*
1985-1986	Visiting Assistant Professor, Physics and Astronomy Department, University of Pittsburgh, PA, USA *University physics teaching*
1983-1985	Visiting Assistant Professor, Physics Department, Amherst College, MA, USA *University teaching in liberal arts setting*
Summer 1983	Science Writer Intern, *Science News* Magazine, Washington, DC, USA *Developing and writing science news stories*

Supervision of Junior Researchers

Researcher name	**Sackett Supervisory Capacity**	**Subsequent posting**
Paul Vreeswijk	1997 Honours Thesis Supervisor	Fellow, Weizmann Inst of Science, IL
Jean Philippe Beaulieu	1996-98 Postdoctoral Supervisor	Director of Research, IAP, Paris, FR
Martin Dominik	1997-99 Postdoctoral Supervisor	Reader, Univ of St Andrews, UK
Richard Naber	PhD Thesis (Co-supervisor)	Left field before completion
Scott Gaudi	2001 PhD Thesis (Co-supervisor)	Professor, Ohio State University, USA
Eduard Westra	2003 Honours Thesis Supervisor	Industrial Data Analyist, NL
Ulyana Dyudina	2004 Postdoctoral Supervisor	Assoc Scientist, Space Science Inst, USA
Jelte de Jong	2005 PhD Thesis (Co-supervisor)	Researcher, University of Groningen, NL
David Weldrake	2005 PhD Thesis Supervisor	Asst Director, M-D Basin Authority, AU
Brandon Tingley	2006 PhD Thesis Supervisor	PostDoc, Aarhus University, DK
Christine Thurl	2007 PhD Thesis Supervisor	Industrial Physicist, DE
Thomas Evans	2008 Honours Supervisor	Research Fellow, Univ of Exeter, UK
Daniel Bayliss	2009 PhD Thesis Supervisor	Asst Professor, Univ of Warwick, UK
Karen Lewis	2011 PhD Thesis (Co-supervisor)	Postdoc, Earth Life Science Inst, JP

Selected Major Experiences and Accomplishments

2011-present *As Private Strategic Scientific Advisor:*

- Sole Expert Witness in BSCA vs EPA case in NSW Land and Environment Court
- Foresight analyst for 2025 Strategic Plan of BASF, world's largest chemical producer
- Scientific Assessor for Queensland $20m Smart Futures Fund
- Analyst and advisor to Australian multi-state Climate Action Roundtable

2015-2021 *As Councillor and Chair of ACT Climate Change Council:*

- Spearheaded recommendation for interim GHG emissions targets in the ACT
- With Prof. Will Steffen, introduced carbon budget approach into ACT policy-making
- Led *Canberra's Climate-Fuelled Summer of Crisis* Report

2008-2011 *As Chief Scientist for Australia:*

- Commissioned four cross-disciplinary reports for Prime Minister's Council (PMSEIC):
  Challenges at energy-water-carbon intersections
  Australia and food security in a changing world
  Transforming learning and the transmission of knowledge
  Epidemics in a changing world
- Founded Forum of Australian Chief Scientists
- Established two-way communication tools with Australian community

2002-2007 *As Director, Research School of Astronomy and Astrophysics (RSAA)*

- Managed University department and observatory staff of 100
- Responsible for annual budget of 6M AUD plus 4M AUD in 2nd & 3rd steam funds
- Oversaw rebuild of main campus of School after devastating 2003 bush fires
- Led national effort to establish next generation telescope access for Australia
- Established ANU Planetary Science Institute, joint venture with ANU Earth Sciences
- Initiated and carried out large change process at RSAA, managing
  mandated 29% increase in salary costs & 20% reduction in recurrent budget
- Spearheaded entry into two major international partnerships:
  Giant Magellan Telescope (GMT) and Murchison Wide Field Array (MWA)
- Negotiated awards of two major instrument contracts: Gemini NIFS (II) and GSAOI
- Oversaw 80% increase in research publication rate, 50% growth in PhD student body,
  and increase in student completion rate while decrease in time to submission

1989-2010 *As Scientific Researcher and Team Leader in USA, NL and Australia:*

- Streamlined massive searches for transiting planets in the Milky Way
- Founded and Principal Investigator of the international PLANET Collaboration,
  managing collaboration of 20 scientists in 7 countries using 5 telescopes to
  set first limits for Jupiter-like planets around common dwarf stars,
  determine limb-darkening of distant stars for the very first time, and
  detect first terrestrial-mass (5-Earth mass) exoplanet around a normal star
- Determined 3-D distribution of dark matter around some galaxies
- Quantified relationship between structure and dark matter in Milky Way
- Determined deep cloud structure in atmosphere of Saturn

1991-1992 *As Program Director at U.S. National Science Foundation (NSF), USA*

- Managed program of small grants to fund high-risk science
- Initiated first newsletter from NSF Astronomy division (AST) to national community
- Managed all cross-division (AST + another NSF division) awards
- Responsible for all AST projects related to education and diversity
- Initiated study into factors correlated to proposal success and failure

Local, National & International Service

2015-2021	Councillor and Chair, Australian Capital Territory (ACT) Climate Change Council
2017-2020	Member, Business Advisory Board, ACT Renewable Energy Innovation Fund
2017-2019	Member, Scientific Advisory Board, Potsdam Institute for Climate Impact Research
2015	Chair, Memorandum Team, Nobel Laureate Symposium: *Climate Change, Changing Cities*
2013	Invited Speaker, 2013 Geological Society of America, Denver, CO, USA Contribution: *Elemental Cycles in the Anthropocene*
2011	Drafting Team, Nobel Laureate Stockholm Memorandum on Global Sustainability
2008-2011	As Chief Scientist for Australia, Member of:

Prime Minister's Science, Engineering & Innovation Council, Executive Officer
Prime Minister's Science Prize Selection Committee
Educational Investment Fund Board
Defence Science & Technology Organisation Advisory Board
Rural Research & Development Council
Higher Education Endowment Fund Assessment Panel
Cooperative Research Centres Assessment Panel
Climate Change Science Framework Implementation Group, Chair
National Youth Science Forum, President
Forum of Australian Chief Scientists, Founder and Chair

2005-2010	Board of Directors, Association of Universities for Research in Astronomy (AURA)
2006-2008	Board of Directors, Giant Magellan Telescope (GMT) Organisation
2002-2008	ANU Member Representative to AURA
2008	Australian GMT Advisory Committee to Australia Astronomy, Ltd
2003-2007	NCA Task Force on Extremely Large Telescopes (ELT)
2002-2007	National Committee for Astronomy (NCA), Australian Academy of Science
2002-2007	Australian Gemini Telescope Steering Committee
2002-2007	Board of Management for the Australian Astronomy MNRF Award
2004-2007	Chancellor's Award Committee, Australian National University (ANU)
2004-2006	Canberra Partnership Board, ACT, AU
2003-2005	University Science, Health & Engineering Research Committee, ANU
2000-2005	European OPTICON Extremely Large Telescope (ELT) Science Working Group
2004	International review team of the South African Astro-Geoscience Facilities for the NRF
2002-2003	Academic Board, Australian National University, Canberra, AU
1995-2002	Principal Investigator, International PLANET Collaboration
2001-2002	Science Advisory Committee for the Square Kilometer Array
2001-2002	Curriculum Advisory Committee for Astronomy, Kapteyn Astronomical Institute
2000-2002	European Southern Observatory (ESO) Programmes Committee, Member-at-Large
2000-2001	Chair, Stars and Planets Panel for OPTICON ELT Working Group
1996-1998	ESO Working Group on Exo-Solar Planets
1996-1998	Facilities Program Committee, Netherlands Organisation for Scientific Research

Scientific Organising and Steering Committees:

2013-2015	*Changing Climate, Changing Cities* Nobel Laureates Symposium on Global Sustainability, Hong Kong 2015 also Chair, Symposium Memorandum Drafting Team
2008	*2008 Meeting of the Astronomical Society of Australia* Perth, Australia
2006-2007	*IAU Symposium on Exoplanets: Physics, Dynamics and Evolution* Suzhou, China
2006	*Transiting Extrasolar Planets* 25-28 September 2006, MPIA, Heidelberg, Germany
2003-2004	*Planetary Timescales: Stardust to Continents* 2003 White Conference, National Academy of Sciences, Canberra, AU
2002-2003	*Extrasolar Planets: Today and Tomorrow* 30 June - 4 July 2003, IAP, Paris, France
2001-2002	*Scientific Frontiers in Research on Extrasolar Planets* 11-14 June 2002, Washington, DC, USA
2001	*The SKA: Defining the Future* 9-12 July 2001, Berkeley, CA, USA
2000-2001	*Yale Cosmology Workshop: Shapes of Galaxies and Their Halos* 28-30 May 2001, New Haven, USA
1999-2000	*Planetary Systems in the Universe: Observation, Formation and Evolution* 7-11 August 2000, Manchester, England
1998-2000	*Microlensing 2000: A New Era for Microlensing Astrophysics* 21-25 February 2000, Capetown, South Africa Chair, Scientific Organising Committee
1997-1999	*Impact of Large-Scale Photometry on the Research of Pulsating Stars* IAU Conference, 9-13 August 1999, Budapest, Hungary
1997-1999	*VLT Opening Symposium: From Extrasolar Planets to Brown Dwarfs* 1-4 March 1999, Antofagasta, Chile
1997-1998	*4^{th} International Workshop on Microlensing Surveys* 15-17 January 1998, Paris, France
1990	*Warped Disks and Inclined Rings around Galaxies* Workshop 30 May - 1 June 1990, Pittsburgh PA Scientific and Local Organising Committee

PUBLICATIONS

Over 140 publications, 65 in refereed journals, together garnering
more than 4400 scientific citations and 1000 normalised citations
(Sackett served as PhD or postdoctoral supervisor for authors in italics)

Technical Reports and Communications: Climate Change

Expert Report: Greenhouse Gas and Climate Implications of the Narrabri Underground Mine Stage 3
Penny D Sackett
2022, Submission to the NSW Independent Planning Commission

Expert Report: On the Environmental Impact Statement of the Winchester South Project as it relates to Climate Change
Penny D Sackett
2021, Part of a submission to the Queensland Coordinator-General

Expert Report: Matter of Bushfire Survivors for Climate Action Inc v Environment Protection Authority
Affirmed as Affidavit D on 10 August 2021
Penny D Sackett
2021, Submission to the NSW Land and Environment Court, Case No. 20/106678

Expert Report: Matter of Bushfire Survivors for Climate Action Inc v Environment Protection Authority
Affirmed as Affidavit C on 5 August 2021
Penny D Sackett
2021, Submission to the NSW Land and Environment Court, Case No. 20/106678

Expert Report: Matter of Bushfire Survivors for Climate Action Inc v Environment Protection Authority
Affirmed as Affidavit B on 4 June 2021
Penny D Sackett
2021, Submission to the NSW Land and Environment Court, Case No. 20/106678

Expert Report: Matter of Bushfire Survivors for Climate Action Inc v Environment Protection Authority
Affirmed as Affidavit A on 5 March 2021
Penny D Sackett
2021, Submission to the NSW Land and Environment Court, Case No. 20/106678

The Social Cost of Carbon and Implications for the ACT
Paul Bannister, Cristopher Brack, Mark Howden, Karen Jesson, Ben Ponton, Penny D Sackett (Chair), Sophia Hamblin Wang
2021, ACT Climate Change Council, Canberra

Expert Submission: Tahmoor South Coal Extension Project (SSD 17-8845)
Objecting: On the basis of greenhouse gas implications
Addendum: Addendum in Response to Additional Material
Penny D Sackett
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2001, **Invited Feature Review**, EuroPhysics News, Nov/Dec, 226

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Morgan, Amy – Sunday, 14 August 2022 – 14:32:07

Subject	Stop Origin's fracking plans
From	Amy Morgan
Sent	8/14/2022 2:32:07 PM

How are we still here?

You have the evidence, now we need you to see the action.

Why is it one rule for oil and gas companies and one for the everyday person. Our resources our scarce, our communities are in need of serious support and our emissions need to be reduced so we can stop living through continued natural disasters that come as a direct result of climate inaction.

Make this the year you say no to oil and gas companies trampling on our country, on our hearts and on our futures!

Amy Morgan
****
NSW 2017

Morgan, Elizabeth – Friday, 12 August 2022 – 13:02:50

Subject	Absolutely no frackinh in NT
From	Elizabeth Morgan
Sent	8/12/2022 1:02:50 PM

Dear N0rthern Territory Department of Parks and Wildlife

It has been shown time and time again that fracking is a disaster in so many essential ways. To even consider fracking in NT where the environment, land owners and water preservation are at stake would be a criminal act.
Please don't go ahead with these terrible plans - for humanity and your grandchildren.
Sincerely
Elizabeth Morgan AM

Elizabeth Morgan
****
QLD 4068

Morgan, Freya – Sunday, 14 August 2022 – 18:21:32

Subject	Stop Origin's fracking plans
From	Freya Morgan
Sent	8/14/2022 6:21:32 PM

Northern Territory Department of Environment, Parks and Water Security
Hi
I'm writing this submission asking you to reject Origin's fracking plan for future wells in the NT. I do this based on environmental and cultural grounds. I'm concerned about water contamination, the amount of water needed and climate impacts of opening new fossil fuel sources when dollars would be better spent on renewable energy sources.
That is why I'm asking that Origin's proposals are rejected.
Yours sincerely
Freya

Freya Morgan
****
QLD 4521

Morgan, Jan – Friday, 12 August 2022 – 18:57:21

Subject	Stop Origin's Fracking Plans
From	Jan Morgan
Sent	8/12/2022 6:57:21 PM

It is appalling that fracking be allowed in sensitive Indigenous lands. This has to stop!!

Jan Morgan
****
NSW 2306

Morgan, Sandra – Thursday, 11 August 2022 – 14:11:02

Subject	Stop Origin Fracking Gad
From	Sandra Morgan
Sent	8/11/2022 2:11:02 PM

I cannot believe that Origin for their own selfish gain are going to crack through some of the indigenous owned land in the NT. How can you allow this selfish greedy act to go ahead? The amount of water used to drill these wells is astronomical and will clearly destroy the water table. Please do not allow Origin to frack this land.

Sandra Morgan
****
NSW 2483

Morgan, Siobahn – Sunday, 14 August 2022 – 18:58:36

Subject	goddessarts88@gmail.com
From	Siobahn Morgan
Sent	8/14/2022 6:58:36 PM

Stop raping the land or you and everyone you love will get cancer and die slowly and painfully

Siobahn Morgan
****
QLD 4865

Morgan, Terry – Monday, 15 August 2022 – 14:00:50

Subject	Submission
From	Terry Morgan
Sent	8/15/2022 2:00:50 PM

The attached video constitutes a submission on the Origin Energy EMP from Ray Dimakarri Dixon, traditional owner from Marlinja NT.

https://youtu.be/3zP3_th3Fb0

Morgan, Tristram – Sunday, 14 August 2022 – 14:47:01

Subject	Stop Origin Energy from fracking!
From	Tristram Morgan
Sent	8/14/2022 2:47:01 PM

Dear NT Dept of Environment, Parks and Water Security

The term "water security" is in the very name of your department, which is tasked with serving the people of the NT in that capacity, as well as protecting the environment. The science is already entirely conclusive that fracking is both environmentally disastrous, it also poisons water supplies, with some water even being capable of being set alight it's so loaded with flammable toxicity!

Please do the right thing, and reject Origin's plans for fracking, there is simply no justification for it in the face of the calamities people are facing through bush fires and floods, serious climate disaster made far worse from burning fossil fuels. Future generations will judge harshly anyone ignoring the compelling needs to reverse the situation by supporting renewable energy sources, which may well include your own families as they deal with the scorching temperatures and turbulent climate that is being exacerbated by supporting these disastrous fossil fuel projects.

Sincerely, Tristram Morgan

Tristram Morgan
****
QLD 4061

MORREAU, JEAN – Sunday, 14 August 2022 – 06:17:18

Subject	Tell Origin NO
From	JEAN MORREAU
Sent	8/14/2022 6:17:18 AM

Origin is not fully Australian owned and the profits go overseas. If you want more gas, reserve some of the stuff they are selling to China.

JEAN MORREAU
****
NSW 2040

Morris, Charles – Friday, 12 August 2022 – 15:21:14

Subject	Risking climate disasters for profit
From	Charles Morris
Sent	8/12/2022 3:21:14 PM

To the Northern Territory Department of Environment, Parks and Water Security,

To allow fracking will risk your aquifers and perhaps even create sink holes and land subsidence. Fracking comes with considerable environmental risks!
We all know the Earth is warming, the climactic consequence of this is greater amounts of evaporation into a heated atmosphere leads to more severe storms. The cost of these storms when they hit farm land and places of population are huge.
How could you even consider Origins greedy grab for more gas! Please have some empathy for the people on our Earth and stop Origin!

Charles Morris
****
TAS 7215

Morris, Hillary – Friday, 12 August 2022 – 14:11:15

Subject	Origin's Fracking Plans
From	Hillary Morris
Sent	8/12/2022 2:11:15 PM

To the Northern Territory Department of Environment, Parks & Water Security

I understand your department is accepting public submissions in regards to Origin's plans for 12 (!) fracking drills in your Territory.

I am writing to you to ask you to reject Origin's Environmental Management Plan for exploratory fracking wells.

We absolutely must step away from further gas expansion. It's a shame Origin isn't looking at solar thermal plants instead..... It's a well known fact that fracking produces green house gasses and in some instances these gasses and not able to be captured and can leak into the atmosphere.

We must start rejecting requests such as Origins - then organisations like them will start to focus on providing energy through renewable sources. Until this sort of pressure is placed upon energy companies that source fossil fuels, we will continue to experience the effects of climate change.

I am asking you to reject Origins request. Apologies for the short submission but I understand you are only accepting until Monday.

Yours sincerely

Hillary Morris

Hillary Morris
****
NSW 2250

Morris, Jake – Friday, 12 August 2022 – 16:28:32

Subject	0401394350
From	Jake Morris
Sent	8/12/2022 4:28:32 PM

Steve Irwin would be ashamed of you lot

Jake Morris
****
NSW 2760

Morris, Jocelyn – Friday, 12 August 2022 – 15:04:11

Subject	Stop fracking plans for NT.
From	Jocelyn Morris
Sent	8/12/2022 3:04:11 PM

I ask the NT Government not to allow fracking in the NT. It will cause damage to traditional lands and seriously jeopardise the water supply on which so many people depend.
Once the land and water resource are damaged there will be no going back. Fracking is a short term benefit to Origin, but damage could affect future generations and the environment adversely for ever.
Please do not be so short-sighted. It is the duty of Government to look after the good of the people including future generations.
Jocelyn Morris.

Jocelyn Morris
****
NSW 2041

Morris, June – Sunday, 14 August 2022 – 16:09:57

Subject	jmorrisopt@optusnet.com.au
From	June Morris
Sent	8/14/2022 4:09:57 PM

I am 94 years old and have been a nature lover for 90 years. I now am a member of the Australian Conservation Foundation and lead Nature Rambles in Toohey Forest, Tarragindi Qld. I am concerned about the misuse of resources such as coal and gas which are contributing to the destruction of nature caused by carbon emissions. It is absolutely necessary to stop new coal and gas exploration and development of mines.

June Morris
****
QLD 4122

Morris, Stephen – Friday, 12 August 2022 – 09:51:36

Subject	Stop Fracking
From	Stephen Morris
Sent	8/12/2022 9:51:36 AM

To NT Government,
Dear Sirs,
Fracking coal seam gas is highly dangerous to the environment and must be banned

Origin Energy have in the past shown very little concern for the environment and must be stopped.

Exploration wells are just the tip of the iceburg. If approved they will drill hundreds of wells, put harmful chemical in the ground and cause massive environmental damage.

Please do not grant the approval for exploration.

Yours sincerely,
Stephem Morris
B Comm Economics UNSW

Stephen Morris
****
NSW 2261

Morrissey, Lily – Sunday, 14 August 2022 – 20:06:25

Subject	I am against the approval of more fracking by Origin Energy on the Amungee Mungee pastoral station
From	Lily Morrissey
Sent	8/14/2022 8:06:25 PM

To whom this may reach at the Northern Territory Department of Environment, Parks and Water Security

My name is Lillian Morrissey, I am a citizen and resident of NSW but I have spent a lot of time up in Alice and in the desert communities over the years as a professional working in the arts industry. I have recently heard about Origin Energy's plans to commence exploratory fracking with 12 new wells near Daly Waters, and I have to speak up against this insanity. Water is such a precious resource in the desert - your own department is called the department of water security. We need to responsibly manage our water going into a future shaped by increasing drought and climate change. This proposed fracking exploration is going ahead with Origin admitting they have no plans for waste water treatment, and with zero long term vision for the future in terms of climate emissions. On top of that, it's going ahead against the wishes of indigenous communities, and without the proper authorisation or license to sell the gas they're proposing to drill. Fracking is known to result in massive amounts of water waste and contamination. Plus, with new federal climate targets now going into force, it just makes no sense, environmentally, and in terms of national climate commitments, to invest in this kind of exploratory drilling. It is total insanity, and completely short sighted. Plus it totally disregards indigenous wishes. Please do not allow this to go through. It is not in the interests of any Australians for companies such as Origin to be continued to allowed to go on with unsustainable use of water in desert communities, and developing additional polluting energy resources. Sincerely, Lillian Morrissey

lily morrissey
****
NSW 2045

Morrow, Tim – Sunday, 14 August 2022 – 10:20:23

Subject	Stop NT Origin energy from FRACKING
From	Tim Morrow
Sent	8/14/2022 10:20:23 AM

It doesnt make sense to destroy country and deplete the land and poisen the water. Time and time again land has been ruined by FRACKING this can not and must not goahead!

Tim Morrow
****
QLD 4573

Mortimer, Elisabeth – Sunday, 14 August 2022 – 15:05:20

Subject	I urge you to STOP Origin's fracking plans a
From	Elisabeth Mortimer
Sent	8/14/2022 3:05:20 PM

A submission to the Northern Territory Department of Environment, Parks and Wildlife,

I am writing this submission to request that you care for Mother Earth and listen to our Traditional Owners of the Great Southland. The Traditional Owners have been caring for their country for 80,000 plus years.
Now Origin want through greed to fracking their sacred land. Fracking is akin to rape, it is proven to wreck water supply, destroy cultural heritage and our climate.

This is essential we must listen to the Elders, I ask respectfully that you STOP Origins fracking, thank you in hope.

Elisabeth Mortimer
****
NSW 2449

Mortimer, Karl – Saturday, 13 August 2022 – 17:36:02

Subject	Fracking
From	Karl Mortimer
Sent	8/13/2022 5:36:02 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Karl Mortimer
****
SA 5000

Mortly, Y – Friday, 12 August 2022 – 19:20:58

Subject	Stop Origin's fracking plans
From	Y Mortly
Sent	8/12/2022 7:20:58 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

Y Mortly
****
QLD 4272

Morton, Jane – Saturday, 13 August 2022 – 15:18:30

Subject	Don't frack Beetaloo
From	Jane Morton
Sent	8/13/2022 3:18:30 PM

To the NT Department of Environment, Parks and Water Security

We are in a climate and ecological emergency. We must reduce emissions to zero at emergency speed and continue with negative emissions until a safe climate is restored. Eminent scientists warn that we could pass the point of no return for runaway warming even if we remain under two degrees of warming. (See the 'hothouse earth paper'.)
There is no way in the world that opening up vast new gas fields can be acceptable. The window for action on the climate emergency is rapidly closing.
In addition to the catastrophic climate risks, this project poses utterly unacceptable risks to precious ground water.
Please don't approve these 12 wells.
Yours sincerely
Jane Morton

Jane Morton
****
VIC 3070

Moscatt, Damian – Sunday, 14 August 2022 – 13:30:19

Subject	Stop Origin's Fracking Plans
From	Damian Moscatt
Sent	8/14/2022 1:30:19 PM

Hello my name is Damian Moscatt, I am from Chelsea Victoria and I am writing to stop Origin's Fracking Plans.

I writing to help stop Origin's plans to open twelve new fracking drills in the Northern Territory. These wells threaten water, cultural heritage, and our climate, and they do not need to be created. Please focus on creating new industries and jobs for our future generations and environment which does not have an impact on our climate and environment.

I realise the Origin maybe bringing immediate money and solutions to the table however, these are in vein if our environment is damaged. Ask the Australian people and you will find that we would much rather be without the fossil fuels and suffer short term pain in sacrificing and coming up with a long term viable, sustainable alternative to fossil fuels.

I am asking the Department to reject Origin's EMP

Damian Moscatt
****
VIC 3032

Moser, Irene – Friday, 12 August 2022 – 16:09:37

Subject	Stop Fracking in the NT
From	Irene Moser
Sent	8/12/2022 4:09:37 PM

NT Department of Environment, Parks and Water Security

Please do not allow any more fracking in the NT. We can't dig up any more fossil fuels. Fracking is the most destructive way of doing this, so it must be absolutely off the table. It does damage to aquifers and destroys the land from below. Don't succumb to bribery and lobbying. It's time to protect our environment.

Irene Moser

Irene Moser
****
VIC 3125

Moss, Chris – Friday, 12 August 2022 – 22:40:48

Subject	Origin's plans to open 12 new Fracking wells
From	Chris Moss
Sent	8/12/2022 10:40:48 PM

I'm wondering how the proposed fracking drills will conform to the NT governments Large emitters Policy to reduce climate gas emissions to zero by 2050. Methane is 40 times more damaging than Carbon Dioxide in the short term, and could lead to massive damage to the NT's climate, with fires, drought and floods and permanent weather changes costing more than any short term gains from fracking activities.

Chris Moss
****
VIC 3056

Mountain, Alana – Sunday, 14 August 2022 – 16:52:59

Subject	Stop Origin's fracking plans! frack off!
From	Alana Mountain
Sent	8/14/2022 4:52:59 PM

To the Northern Territory department of environment parks and water security.

Please do not allow these destructive fracking projects to go ahead. It would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Enough is enough, we need to be protecting and taking care of the land, and not risking water security etc.

Please do not allow this to go ahead.
As a concerned citizen, conservationist and Friends of the Earth Campaigner.

Alana Mountain

Alana Mountain
****
VIC 3717

Mounteney, Michael – Sunday, 14 August 2022 – 17:44:44

Subject	No fracking in NT
From	Michael Mounteney
Sent	8/14/2022 5:44:44 PM

The Minister, NT dept. of Environment, Parks and Water Security.

We don't need it, only Origin's shareholders want it, the indigenous Australians of the area are implacably against it.

Michael Mounteney
****
QLD 4130

Mudie, Margaret – Sunday, 14 August 2022 – 21:51:49

Subject	Stop Origin's tracking plans
From	Margaret Mudie
Sent	8/14/2022 9:51:49 PM

Northern Territory Department of Environment, Parks and water security

Dear Minister,

It is with alarm and great concern that I learned of Origin's plans to establish a number of wells using the fracking method in the Territory. Fracking requires large amounts of water thus depleting these scarce resources. It is very likely to reduce water and air quality in surrounding areas as well.

The fracking site at Beetaloo is located on First Nations land and the inhabitants do not consent to these projects.
Please respect the wishes of the people who live in these areas. Just imagine Origin energy wanting to drill for gas in the city of Darwin, that would cause quite a stir!

Last but not least to consider is the fact that fracking is one of the world's
biggest contributors to greenhouse gas emissions. Please give serious thought to the state of our world; what sort of mess are we leaving for future generations?

Yours sincerely,
Margaret Mudie

Margaret Mudie
****
SA 5159

Mugavin, Geraldine – Friday, 12 August 2022 – 14:45:56

Subject	geraldine.mugavin@mercy.org.au
From	Geraldine Mugavin
Sent	8/12/2022 2:45:56 PM

Origin, oh no no!!!! You couldn't.
Geraldine

Geraldine mugavin
****
VIC 3350

Muir, Belynda – Thursday, 11 August 2022 – 14:20:15

Subject	Origin's fracking plans will destroy country
From	Belynda Muir
Sent	8/11/2022 2:20:15 PM

To the Northern Territory Department of Environment, Parks and Water Security.
I am writing to lodge my great concern about the fracking plans set forth in the EMP by Origin for the Amungee Mungee pastoral station.
The very real risk that approval of these fracking sites would pose to the environment cannot be overstated. Frankly, I'm terrified what this would mean for the NT, and then what precedents it could set in the future.

The use of the water that First Nations communities rely on, and then the eventual contamination of the surrounding waters, because of the failure of a safe plan to get rid of the wastewater.
Origin are trying to push through this plan without even addressing all the recommendations from the 2018 Pepper Inquiry, as was agreed in order to lift the moratorium on fracking.
Its time to listen to the First Nation's people and stop fracking, don't allow Origin to destroy our environment, please. The NT government must not allow these sites to be built.

Belynda Muir
****
QLD 4161

Muir, Noella – Sunday, 14 August 2022 – 14:58:47

Subject	Stop Origin's franking plans
From	Noella Muir
Sent	8/14/2022 2:58:47 PM

I demand the Northern Territory refuse Origin Energy's franking plans.

The Indigenous custodians of this land
have stood strongly against Origin's plans as have other residents. Why would Northern Territory government go against the wishes of the people when
Australia is now combining with other countries to take action against Climate Change?

Do the right thing, refuse this proposal and make a stand against Origin! You will only lose at the next election if you don't take a stand now.

Sincerely
Noella Muir
Centennial Park

Noella Muir
****
NSW 2578

Mujica, Bernardo – Saturday, 13 August 2022 – 14:41:58

Subject	beralmu@hotmail.com
From	Bernardo Alayza Mujica
Sent	8/13/2022 2:41:58 PM

Often, if committees or government departments notice a lot of similar submissions, they'll group them together as one rather than consider them for what they are – thousands of people who will do whatever it takes to unite behind Traditional Owners in their fight against fracking corporations like Origin.
Thank you for taking the time to unite behind Traditional Owners time and time again. Together, we will put an end fracking

bernardo alayza mujica
****

Mulcahy, Peta – Monday, 15 August 2022 – 00:10:35

Subject	An end to fracking
From	Peta Mulcahy
Sent	8/15/2022 12:10:35 AM

NT Dept of Water, Environment, Etc

Dear Decision-makers

I am writing this email to appeal to you to not give permission to Origin - or any other mining company - to engage in fracking activities in the Territory.

As you are well aware, fracking causes long term contamination of the water table and therefore affects fragile ecological balances - not to mention the damage to the country and culture of traditional owners. It is not worth taking this risk. Please place people before profit.

Yours sincerely
Peta Mulcahy

Peta Mulcahy
****
WA 6163

Mulherin, Merri – Monday, 15 August 2022 – 17:23:28

Subject	Stop Origin's Fracking Plans
From	Merri Mulherin
Sent	8/15/2022 5:23:28 PM

Dear Department of Environment, Parks and Water Security.

With respect, it borders on insane that I write to oppose Origin's fracking plans in the Northern Territory to a body which includes in it's name 'Environment, Parks and Water Security'. Particularly, the first and last.

Any quick research into Fracking reveals environmental damage (particularly the PEOPLE in that environment) and negative atmospheric pollution. The risk to underground water, even more precious in a Climate Change affected world, in itself could be the sole reason to stop the plans.

For more than a decade I lived in Central Queensland. During that time for 4 years I worked in the Department of Water Resources. We were farming but due to a prolonged drought I was forced to find other work to ensure my children could eat.That was in the late '80's. Part of my role was to monitor the underground water bases of Queensland. Even at that time they were significantly and horrifyingly depleted. This of course at the time was, let's say, certainly not broadcasted.

As drought conditions increase(Climate change) the underground water of the Northern Territory will similarly lessen. Water will be as precious as gold. You cannot risk in anyway this 'gold' by allowing even the most minimal risk. And Fracking Risk to underground water is far more than a minimum possibility. It is a real possibility.

Fracking is toxic and has time and time again proved lethal to the environment and people. The information is widely published.

If you are unaware of that, I refer you to 'Gasland' a documentary film made in 2010 which can explain this simply and in an entertaining way to you.

The time has well passed where any arguments for 'jobs and money' trumps every time any serious environmental/water security issues.

Please do not make any foolish decisions. We, as a nation and you as a Territorial Governmental body, must act responsibility to protect the environment and our water security for this generation and the coming generations. Our First Nations Peoples planned Seven Generations ahead when making environmental Management decisions. I suggest you also look at that period of planning.

Act not only with integrity but with intelligence.
Don't sweat the small stuff. Don't spend endless hours contemplating ever detail to make a considered opinion and justifying your position snd salary. The WHOLE idea of fracking is wrong. The devil IS in the detail.

Yours sincerely,
An informed, intelligent, science/fact believing, citizen of Australia, who cannot bear further needless destruction of MY HOME, simply for corporations' profit.

Merri Mulherin

Merri Mulherin
****
NSW 2291

Mullerworth, Michael – Saturday, 13 August 2022 – 21:57:56

Subject	Please urgently stop fracking in the Northern Territory!
From	Michael Mullerworth
Sent	8/13/2022 9:57:56 PM

To: The NT Dept of Environment, Parks and Water Security

We are seeing the impacts of gas expansion with our own eyes. Traditional Owners are seeing it too.
I have just read the following report and have no reason to doubt its authenticity:
"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

At the very least, these people are not being listened to, and at the worst, extractive industries are despoiling and severely damaging the land, its resources, and its cultural values.
I have no reason to doubt the veracity of their statements or the depth of their feelings on the matter.
I am a concerned Australian citizen with a deep interest in the country's natural resources and its indigenous peoples. Both deserve respect and careful protection.
Therefore, I am extremely concerned about what appears to be a disregard for proper processes as well as the flaunting of rules and regulations in exploration and extraction for mineral resources, and especially of associated water usage and anti-pollution measures.
In particular, the proposed Environmental Management Plan is totally inadequate. So I ask that all 'fracking" and so-called "exploratory" wells are halted immeditely. Permissions, if already granted, should be reviewed to ensure not only if such actions were lawful (there appears to be some doubt), but that consultations with the Indigenous landholders were held, and that appropriate consent was obtained. To me, it appears that 'testing" or "exploration" has actually continued as "open for business" if the extracted resource is already being sold.
Furthermore, the viability of the existing water resources is threatened, and no safe arrangements have been made to dispose of large quantities of recovered contaminated water.
Over and above this, the risk of runaway climate change is increased by continuing use and reliance of fossil fuels, and in this case significant fugitive emissions of natural gas.
I request that you immediately cease these activities and reconsider your plans. And I would appreciate an acknowledgement and and appropriate reply.

Michael Mullerworth
****
VIC 3122

Mundy, Jennifer – Friday, 12 August 2022 – 18:26:25

Subject	Do not allow Origin to frack NT
From	Jennifer Mundy
Sent	8/12/2022 6:26:25 PM

Please respect the traditional owners & the environment. Do not allow the 12 new Origin fracking drills.

Please listen to the people, not corporations who just want to make money!

Jennifer Mundy
****
NSW 2226

Muni, Diva – Saturday, 13 August 2022 – 16:37:45

Subject	no more franking!! criminal plans by origins
From	Diva Muni
Sent	8/13/2022 4:37:45 PM

new proposed fracking wells by origins are absolutely against what the people of Australia want. continuing to let fossil fuel companies burn our children's future will be criminal negligence on the governments part. we voted you in so you guys can help stop such reckless acts of greed.
kindly stop these projects.
no more new oil or gas.
no fracking
thanks.

diva muni
****
WA 6062

Muñoz, Alejandro – Friday, 12 August 2022 – 20:30:01

Subject	alejo.maca@gmail.com
From	Alejandro Muñoz
Sent	8/12/2022 8:30:01 PM

Fracking and any other fossil fuels are unacceptable, immoral and a thing of the past. Rise to the demands the times impose on you and KEEP FOSSIL FUELS IN THE GROUND. Invest in renewables!

Alejandro Muñoz
****
NSW 2129

Munro, Karen – Thursday, 11 August 2022 – 16:21:17

Subject	Stop ?? Origins franking plans
From	Karen Munro
Sent	8/11/2022 4:21:17 PM

Shame on you Origin. You make enough money now. Leave Australia alone.

Karen Munro
****
NSW 2448

Munro, Paul – Thursday, 11 August 2022 – 15:04:52

Subject	Allowing Origin to frack for gas savages the reputation and probity of the ALP in Government
From	Paul Munro
Sent	8/11/2022 3:04:52 PM

I am informed elderly supporter of progressive government. I have been dismayed from before 2019 about reports of NT government support for gas exploration and exploitation using fracking technologies. My dismay was increased when the ALP at federal level indicated support for the proposal.
There are many grounds for objection against the use of fracking in the country of the First Nations people. Those grounds sound not only in potential damage to acquifers, to substrata water flows but also in the sheer irresponsibility of pressing on with a notoriously flawed technique at a time when the globe is already careering toward catastrophic effects of methane and carbon dioxide over concentration in the atmosphere.
I implore your government to stop Origin in its program.

Paul Munro
****
NSW 2088

Murphy, Geoff – Saturday, 13 August 2022 – 14:50:29

Subject	Stop Origin Fracking the NT
From	Geoff Murphy
Sent	8/13/2022 2:50:29 PM

In a time of CC there should be NO FRACKING,FULLSTOP.
It's time the voices of our Indigenous People where heard,listened to & Acted Upon.
Enough of our Beautiful Country is already feeling the effects of CC without aiding it.
Stop this Madness????

Geoff Murphy
****
SA 5454

Murphy, Ian – Sunday, 14 August 2022 – 17:50:35

Subject	Stop fracking now!
From	Ian Murphy
Sent	8/14/2022 5:50:35 PM

What is wrong with politicians. How stupid can you be. It begs the question, are they being bribed? We are trying to use renewables to reduce carbon emissions, not add more? All we will achieve is to make a few more dollars tor overseas investors!

Ian Murphy
****
TAS 7321

Murphy, Matt – Saturday, 13 August 2022 – 14:40:03

Subject	STOP ORIGIN'S FRACKING PLANS!!!
From	Matt Murphy
Sent	8/13/2022 2:40:03 PM

NT Department of Environment, Parks and Water Security,

Even at August 2022 we're still having this conversation?!?

When is the Territory Government going to wake up and listen to the Indigenous mobs that have lived here for millennia and what they say?
And also maybe learn a thing or two on how they care for Country.

Fracking is NOT caring for country.

It's environmentally destructive in more ways than one.
It serves no good for the greater good.
Which I'm sure i was hearing Gunner and his government harping on about the last two years of Covid.

By green lighting and approving these and other fracking plans would show how hypercritical the NT government really is...:(

Do the right thing by the environment, the First Nations mobs, all the tourists both foreign and domestic that plan to visit, but, most importantly, do the right thing for your childrens children.

Regards,

Matt

matt murphy
****
NSW 2035

Murphy, Matt – Sunday, 14 August 2022 – 18:16:41

Subject	Origin Energy Amungee NW Delineation Program...
From	Matt Murphy
Sent	8/14/2022 6:16:41 PM

Matt Murphy

5/46 French Street

Maroubra, NSW 2035

14 August 2022

Hon. Minister for Environment, Climate Change & Water Security Lauren Moss

Member for Casuarina

Parliament House

Darwin NT 0810

Re: Proposed Origin Energy Amungee NW Delineation Program's Environmental Management Plan

Dear Miss Moss,

I know it is my duty to keep you informed as to MY WILL on any matter that comes before the

Parliament or should come before the Parliament.

It has come to my attention that the Northern Territory Government is attempting to approve Origin Energy's Environmental Management Plan for the North West Delineation Program for the purposes of drilling and fracking 12 new exploration and appraisal gas wells on the Amungee Mungee and Shenandoah East pastoral stations 50 km east of Daly Waters.

I do not consent or agree to this proposed action and it is MY WILL that you instead make it

known to the Northern Territory Parliament that it is THE WILL of this constituent that it is NOT approved instead.

I respectfully remind you that, your role as a Territory Member requires you to express the WILL of your constituents, and only the WILL of your constituents, on the floor of parliament.

Sincerely,

Matt Murphy

.....…….....

Attached Documents

Matt Murphy
5/46 French Street
Maroubra, NSW 2035

14 August 2022

Hon. Minister for Environment, Climate Change & Water Security Lauren Moss
Member for Casuarina
Parliament House
Darwin NT 0810

Re: Proposed Origin Energy Amungee NW Delineation Program's Environmental Management Plan

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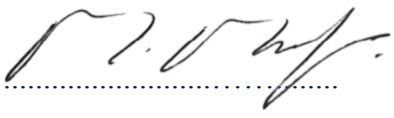
Sincerely,

Matt Murphy



Murray, Catherine – Friday, 12 August 2022 – 15:57:05

Subject	Origin energy plans for 12 new fracking wells
From	Catherine Murray
Sent	8/12/2022 3:57:05 PM

To the NT Department of Environment Parks and Water
I urgently ask you not to allow the Origin Energy fracking of twelve new wells to go ahead. Human lives, Country of future generations clean water and health of every single person on those Countries will be severely affected. It is immoral and unethical to proceed. These fracking wells must be stopped.

Catherine Murray
****
NSW 2303

Murray, David – Saturday, 13 August 2022 – 15:17:56

Subject	Stop fracking
From	David Murray
Sent	8/13/2022 3:17:56 PM

Pleaae dint frack its a bad decusion tondo so fir shirt term profit a destriy long term gains go fir rebrwabkes like windfarms or solar banks or wave mitiom generarots please

David Murray
****
NSW 2450

Murray, Stephen – Friday, 12 August 2022 – 15:40:32

Subject	themurray5@bigpond.com
From	Stephen Murray
Sent	8/12/2022 3:40:32 PM

Franking is dangerous it affects soil water vegetation and native animals it has been proven so many times it is not good for the environment or the people living around the Franking sites

Stephen Murray
****
SA 5008

Murrie, Alexander – Monday, 15 August 2022 – 21:28:43

Subject	Listen to the traditional owners : reject Origin's EMP
From	Alexander Murrie
Sent	8/15/2022 9:28:43 PM

Dear Northern Territory Department of Environment, Parks and Water Security,
My name is Alexander Murrie, and I am a university student at Macquarie University in Sydney studying psychology minoring in Indigenous studies.
I strongly believe you should reject Origin's proposal, as it is immoral to open more mining operations without adequate consultation of the local Indigenous people.
It cannot keep happening like this.
It brings shame upon all Australians, especially on the international stage.
We can all agree energy is important, and mining is essential for local jobs and government revenue, however projects completed like this are not okay.
Please, I implore you to listen to the traditional owners - reject Origin's EMP.

Alexander Murrie
****
NSW 2120

Muzzatti, Roma – Friday, 12 August 2022 – 14:24:41

Subject	Fracking is economically irresponsible
From	Roma Muzzatti
Sent	8/12/2022 2:24:41 PM

To the NT Dept of Environment, Parks and Water Security.
It would appear that Origin is behaving recklessly by intending to implement more projects for fracking despite the devastation is will cause.
Nevertheless, I am confident that the NT Govt will consider the dangers to the climate, the environment, and our ever-diminishing water resources, that they will ensure that community consultation of Traditional Owners has been undertaken and their approval has been clearly given, that the integrity of NT's own regulatory systems have not been compromised.
It is upsetting to see an increase in the reckless and irresponsible behaviour from large corporations for short term profits without any regard for the health of the climate, the environment and the Australian people. Our trust is placed in the hands of our elected representatives to do their job - to protect us all.
Thank you for your consideration

Roma Muzzatti
****
SA 5051

Myler, Carmen – Sunday, 14 August 2022 – 07:28:32

Subject	Lead with vision please… stop Origin's plans to frack up the NT
From	Carmen Myler
Sent	8/14/2022 7:28:32 AM

Dear Minister

I am writing to you to express my deep concern at the news that origin is seeking approval for new fracking wells in the Northern Territory.

These wells threaten:
- water at a time when it is never mean more precious,
- cultural heritage at a time where historic moves are being made to recognise indigenous people and give them a voice
- and our climate when we all know that there is very little time to make any impact on global warming.

If your Government approves these plans, it will not only allow a greedy, short-sighted energy company to frack and destroy these previous things I have listed, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please lead with courage and listen to the electorate — instead lead with vision for a sustainable energy solution. Say no to Origin.

Regards

Carmen Myler

Carmen Myler
****
NSW 2484

Nadanachandran, Kathiravelpillai – Sunday, 14 August 2022 – 15:35:12

Subject	Fracking in NT
From	Kathiravelpillai Nadanachandran
Sent	8/14/2022 3:35:12 PM

Please do not approve this venture which will ruin the land and the atmosphere, besides causing grave changes to the climate. Please consider the future of our children and grandchildren.

Kathiravelpillai Nadanachandran
****
NSW 2137

Nagy, Alice – Monday, 15 August 2022 – 20:48:44

Subject	Origin EMP - Comment on Behalf of Darwin and NT Parents for Climate Action
From	Alice Nagy
Sent	8/15/2022 8:48:44 PM

Hi there,

please find attached submission on Origin Energy Amungee NW Delineation Program EMP on behalf of Darwin and NT parents for Climate Action.

Kinds regards,
Alice.

Attached Documents

NT Environmental Protection Authority
Level 1, Arnhemica House
16 Parap Road PARAP NT 0820

Submission on Origin Energy Amungee NW Delineation Program

Dear Hon Environment Minister Lauren Moss and EPA,

Thank you for the opportunity to comment on Origin Energy's Environmental Management Plan (EMP) regarding their Amungee NW Delineation Program. This submission is made by the Darwin and NT Parents for Climate Action group. We are affiliated with the national NGO - Australian Parents for Climate Action.

Our group represents many families in the Top End and we are united by our pressing concern about climate change and the harmful impacts it will have on young people in the NT now and into the future as they grow up in a hotter and more dangerous climate. We are dedicated to advocating for a safe and healthy environment and climate for our young people.

We are writing today to express our strong concerns relating to Origin's Amungee NW Delineation Program. It has come to our attention that Origin is seeking to sell gas from their 'exploration' wells when they do not hold a production license. This is very troubling considering the NT government has repeatedly assured the public there will be no production of fracked gas until all 135 recommendations of the Pepper Inquiry are implemented. This has not yet happened and there is still no plan in place to implement recommendation 9.8.

Origin's current proposal seeks to keep their wells open five times longer than what is necessary to meet their exploration requirements, their reason for keeping them open is for production, and as we understand they plan to sell the gas to NT consumers. The scope 1 emissions alone from this project will add 535,651 tonnes over 3 years. And under the current proposal, if gas produced (despite Origin not holding a production license) is consumed in the NT (scope 3 emissions), it will raise our emissions profile by 2 million tonnes CO2e. This is a significant and unacceptable increase and is at odds with the NTG's target of achieving net zero by 2050. It is also at odds with advancing the best interests of Territorians given climate change poses an existential risk for us.

We are also concerned about the potential for impacts on water aquifers and local communities in the area. As well as impacts on biodiversity and threatened and endemic species – the risks of which are not adequately addressed in the EMP.

We are calling on the EPA and Minister Moss to reject Origin Energy's Amungee NW Delineation Program proposal given: Origin seeks to produce gas under an exploration license and the Pepper inquiry recommendations have not been meet; the risks to water and biodiversity have not been adequately addressed; and it poses significant climate risks and will impact the NT's ability to reach net zero by 2050.

We also echo calls of other environment and climate advocacy groups and ask the EPA and Minister Moss to refer this EMP to the Environment Protection Agency

under the Environment Protection act for full and thorough assessment given the significant impacts it will have on climate, water and biodiversity.

We want our children to be able to live out their lives in the NT where they were born and raised, therefore, any new projects that will significantly increase our emissions are of concern to us. For this reason our group of concerned parents and carers will follow the progress of this application closely and we hope our concerns raised here will be taken on board and will be reflected in decisions made in relation to Origin's proposal.

Kind regards,

Darwin and NT Parents for Climate Action.

Naidu-James, Supriya – Saturday, 13 August 2022 – 14:14:54

Subject	Stop Origin's fracking plans
From	Supriya Naidu-James
Sent	8/13/2022 2:14:54 PM

Dear Sir/Madam,
I used to be an Origin customer, but I switched to a new supplier because I don't agree with the company business model.

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.
And Traditional Owners have been staunchly defending their country against Origin for years.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

I urge you to drop these plans! The future is Green! The future is Bright!
Kind regards
Supriya

Supriya Naidu-James
****
NSW 2024

Napoli, Vito – Friday, 12 August 2022 – 08:24:36

Subject	Stop Origin's fracking plans
From	Vito Napoli
Sent	8/12/2022 8:24:36 AM

Dear Northern Territory Government. Please refuse Origin's fracking plans and protect country and it's people.
Regards Vito
Ellerbeck Qld 4816

Vito Napoli
****
QLD 4854

Narlc., Ailuj – Sunday, 14 August 2022 – 07:38:56

Subject	Stop Origins fracking plans
From	Ailuj Narlc.
Sent	8/14/2022 7:38:56 AM

To the NT government.. it is a time to stop this kind of reckless approach to treating our earth to extract profits that will have huge negative impacts on Peoples wellbeing, water, soils, air.
To disregard the Traditional Owners of the land is a continuation of ignorant behaviour seen across big companies who feel they can push and bully to meet their own outcome no matter how damaging.
It is short sighted in these days and years to come of climate change and every day living to continue to damage the environment.
Where is your committment to renewables in the now and for the future...
Stand strong as the NT Government for the People, Australia and the World.

Ailuj Narlc.
****
QLD 4671

Nash, Kevin – Saturday, 13 August 2022 – 13:52:49

Subject	Origin Energy
From	Kevin Nash
Sent	8/13/2022 1:52:49 PM

It is important for the future of the environment in the NT. Land needs to be protected for the long term benefit of all Australians. Fracking risks damaging water tables and rendering land unusable. Short term gain is no substitute for long term sustainability

Kevin Nash
****
VIC 3220

Nath, Nemi – Saturday, 13 August 2022 – 15:36:08

Subject	Please reject ct Origin's plans for fracking in the Northern Territory.
From	Nemi Nath
Sent	8/13/2022 3:36:08 PM

It is well known that framing does more harm than good too the planet, especially contaminating ground water.
I urge you to reject Origin's fracking plans.
Nemi
Nath

Nemi Nath
****
NSW 2480

Nathanson, Janet – Saturday, 13 August 2022 – 14:30:45

Subject	STOP ORIGIN'S FRACKING PLANS
From	Janet Nathanson
Sent	8/13/2022 2:30:45 PM

PLEASE DO NOT FRANCK THE NORTHEN TERRITORY. PLEASE STOP ORIGIN'S PLANS. We do not know the real long term effects on ground water and fracking. Companies that make their money from fracking tend to be very short on the truth of the matter, and often mislead the general public about long term damage to ground water. As a "dry" continent we cannot be too careful. Until we have a complete understanding of the importance of ground water in the ecology of the area, we cannot allow Origin to frack the territory. Please leave our natural environment alone. There has to be something left for our grandchildren. Thank you Janet

Janet Nathanson
****
QLD 4065

Nay, Michele – Thursday, 11 August 2022 – 17:58:38

Subject	Fracking by Origin must stop!
From	Michele Nay
Sent	8/11/2022 5:58:38 PM

My name is Michele Nay. I am passionate about preserving our environment for our and our future generations who have the right to safe,clean water and air.
I have been vehemently opposed for many years to any coal seam fracking in our supposedly "lucky country." I attended rallies over 10 years ago opposing (including door knocking) to get the truth out to the community re the disastrous impact that coal seam gas fracking would impose on the people and the environment of our country.
I wonder where the movie 'Frackman the Movie' ended up? a powerful shocking true story! I watched it along with a few 100 others who were left speechless by its content.

I thought any plans for coal seam fracking gas was dead and buried. So I am surprised and horrified to hear of Origin's plans to push forward with exploration and presumably selling gas without the right permissions and licences.
12 wells to be fracked are purported to require the equivalent of over 170 olympic swimming pools.! It beggers belief!

I am respectfully asking that the Department rejects Origins EMP for the reasons outlined above.

Michele Nay
****
NSW 2533

Naylor, Beatrice – Friday, 12 August 2022 – 10:44:50

Subject	No fracking by Origin in Northern Territory
From	Beatrice Naylor
Sent	8/12/2022 10:44:50 AM

To: Northern Territory Department of Environment, Lands and Water
I am writing to you to urge you not to give Origin Energy permission to commence fracking at 8 new sites in the Northern Territory. Fracking has serious negative consequences for underground water, biodiversity, culture of indigenous Australians and for Climate Change. These matters are far more important than Origin Energy's plans
Yours sincerely,
Beatrice Naylor
Ocean Grove ,3226

Beatrice Naylor
****
VIC 3226

Naylor, Maz – Saturday, 13 August 2022 – 15:07:57

Subject	NO FRACKING
From	Maz Naylor
Sent	8/13/2022 3:07:57 PM

NO FRACKING!!!
Has this place gone completely crackers?

Maz Naylor
****
QLD 4171

Neal, Smacker – Thursday, 11 August 2022 – 17:28:56

Subject	Stop ?? the Northern Territory government from fracking and harming well river way On Traditional owners country and find better alternatives
From	Smacker Neal
Sent	8/11/2022 5:28:56 PM

We the First Nations of Aus Queensland Cairns world like you to stay off Traditional aboriginal lands of Northern Territory. Government of Northern Territory you have no authority to play with Mother Nature & our life of this nation call Australia. STOP ?? WORK NOW WE ARE CLOSING THE GATES ????????

Smacker Neal
****
QLD 4870

Neale, Sharron – Saturday, 13 August 2022 – 10:20:02

Subject	Fracking
From	Sharron Neale
Sent	8/13/2022 10:20:02 AM

The Traditional Owners of this land are so disadvantaged when it comes to fighting big corporations like Origin as they have limited finances and resources. They try so very hard and never give up the fight when most times they must feel so much despair. They need the Northern Territory and the Federal Governments to step up and help preserve this great land of ours.
Under the Liberal Government, the Australian environment has been on critical decline. The National State of Environment Report 2022 was deliberately withheld from the Australian public until after the election because it was so damning.
We now have hope for our future. We need to start somewhere and now the Northern Territory Government can play a major part in a brighter future for our nation by stopping fracking. If fracking is allowed to happen it will permanently destroy your beautiful state and only benefit major corporations like Origin.

sharron neale
****
NSW 2146

Nelson, Joan – Sunday, 14 August 2022 – 07:34:52

Subject	Fracking!
From	Joan Nelson
Sent	8/14/2022 7:34:52 AM

I'm sick to death of Origin's continual plans to rape the earth. If the government of this country has any moral substance they should get Origin to back off.
J Nelson
South Australia

Joan Nelson
****
SA 5038

Nelson, Michael – Sunday, 14 August 2022 – 14:57:42

Subject	Listen to Traditional Owners
From	Michael Nelson
Sent	8/14/2022 2:57:42 PM

Please do not allow Origin to frack on traditional lands against the wishes of the traditional owners and against the best interests of our environment
Thank you
Michael Nelson

Michael Nelson
****
QLD 4228

Nethercott, Ron – Sunday, 14 August 2022 – 15:23:32

Subject	Please refuse fracking licenses in NT.
From	Ron Nethercott
Sent	8/14/2022 3:23:32 PM

to: Northern Territory Department of the Environment, Parks and Water Security,
Thank you for the opportunity to comment on Origin Energy's fracking proposal in the NT.
With the effects of Climate Change increasingly upon us, and the Federal Government's 43% reduction in Green House emissions reportedly being at the very bottom end of effective reductions, it is imperative that continued use of fossil fuels be eliminated. The exploration for, and opening of a new gas facilities is unwarranted and contra-indicated. It seems that the proposed investment would be better spent on renewable power generation and development of the Hydrogen-Economy.
With Climate Change being an existential threat to our society as we know it, we should not support new mining activities that we know will be to the long-term detriment of Australian Society.
I recognise that I have, up until now, been the fortunate beneficiary of gas and coal, both for electricity generation and export income.
However, with current understanding, I realise it is now time to stop the use of fossil fuels.

Additionally, I am significantly disturbed and distress by the process of fracking, with its extensive use of chemicals and water to fracture and possibly irreversibly, pollute and destroy the usefulness of ground water that is imperatively important to local communities and to their wellbeing.
I urge you, therefore, to reject exploration and development of fracking operations under your jurisdiction.
Sincerely,
Ronald Nethercott

Ron Nethercott
****
VIC 3175

Newborn, Cianne – Thursday, 11 August 2022 – 15:25:54

Subject	Stop Origins Fracking Plans
From	Cianne Newborn
Sent	8/11/2022 3:25:54 PM

My children, grand children & myself are sick to death of governments, corporations, companys, disrepecting our first nations people by distroying their culture, which as you know by now is also their country, their lives depend on country like the white mans does also, but all you see is money, you don't care if polluted water from fracking contributes to mass exstinction of our wild life or connect that if insects, birds and animals are dying then so will humans, animals don't have shops where they can pop in to buy a plastic water filter, or bottled water in plastic bottles, are white men even from this planet ?
I have a smidgen of black blood thank God because I can see that what Origin is proposing is distruction of our enviroment, our water, our wildlife, distruction of an ancient and beautiful culture that knows, the balance of nature matters, all humans lives depend on it to survive.
You know too, or are you uneducated ? so why do you persist ? Money will kill you in the end.

Concerned citizen
Cianne Newborn.

Cianne Newborn
****
NSW 2454

Newham, Dianna – Sunday, 14 August 2022 – 21:12:48

Subject	submission to Origin EMP
From	Dianna Newham
Sent	8/14/2022 9:12:48 PM

Hon Environment Minister Lauren Moss,

Please find attached our submission in response to Origin's environmental management plan for EP 98 and 76.

We urge you to carefully consider the matters raised in our submission.

Kind regards,

Barb Molanus and Di Newham

Attached Documents

Dear Hon Environment Minister Lauren Moss

Our names are Barb Molanus and Dianna Newham and we live in Alice Springs. We are writing to you to share our concerns with Origin's Amungee NW Delineation environmental management plan (EMP). We are long-term residents of Alice Springs, having moved here in 1997 and 2001 respectively. We have long held concerns about the development of a shale gas fracking industry in the Northern Territory.

We have some serious concerns with the contents of this EMP, namely:

1. Production by stealth:

Origin is proposing to keep the 12 wells in this EMP open for 730 days and sell gas to the Macarthur River Mine. Their license only permits them to 'explore' for gas, not 'produce' it. Allowing them to keep their wells open for over 5 times what is usually required to test how much gas is there and to sell it contravenes the government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper inquiry recommendations before the industry is fully allowed to go ahead.

At the Senate Inquiry earlier this year the gas industry acknowledged that before production can take place, companies will have to go back and talk to traditional owners and secure their consent. Origin are proposing to start selling gas without having done these consultations with traditional owners.

Allowing Origin to sell gas without a production licence would set a terrible precedent and undermine the integrity of our regulatory system and the trust that Territorians have in the Northern Territory Government to meet all 135 recommendations of the Pepper Inquiry.

2. Biodiversity:

Origin's proposal does not adequately consider the risk to threatened species. The proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-spotted Monitor and the Pale Field-rat.

Newly discovered endemic stygofauna (small invertebrates like shrimps which live in groundwater) are also present in the project area. The EMP does not include any measures to monitor for or protect these underground species.

Origin Energy want to drill and frack throughout the year, with the first two wells scheduled to be drilled over the 2022-2023 wet season. They are trying to ignore the more severe environmental risks that occur in the wet season and the risks of flooding and waste water overflow and contamination.

3. Climate Impacts:

Origin's proposal would result in 535,651 tonnes of direct, scope 1 greenhouse gas emissions being released. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.[1]

[1] Alice Springs Town Council – Climate Action Plan 2018–2021 : page 10

Origin has not addressed the Scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (keeping 12 wells open for more than five times the usual appraisal period, which will create a massive carbon footprint of over two million tonnes CO2-e) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible. These emissions will hurt the climate and they count towards the Northern Territory's emissions targets.

Water and waste:

Origin Energy will need 430 million litres of water to drill and frack the 12 wells and will be taking it from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

In addition, Origin's cumulative impact statement was really weak and didn't account for the secondary impacts of the development. A concrete example is that Territory Sands has just applied for a water licence for 1,200 megalitres of water for mining 9000 tonnes of sand per well, needed by Origin to frack the proposed wells.

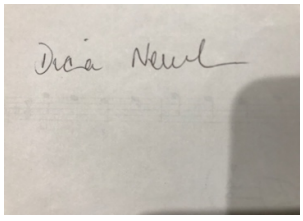
We call on you as the minister to please:

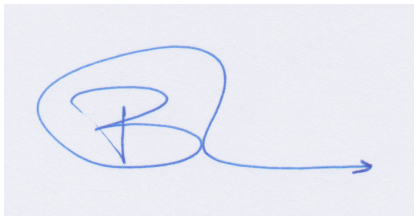
- reject this environmental management plan due to the significant impacts it poses to climate, to local biodiversity and to groundwater.

- refer this environmental management plan to the Environment Protection Agency under the Environment Protection Act for full and thorough assessment given the significant impacts Origin's proposed development will have on climate, water and biodiversity.

We hope you take our concerns into account and will follow the progress of this application closely.

Kind regards,





Dianna Newham
28 Gosse St
Alice Springs NT 0870
E: diannanewham@yahoo.com.au

Barb Molanus
15 Mallam Cresc
Alice Springs NT 0870
E: barbstar.m@gmail.com

Newkirk, Karen – Friday, 12 August 2022 – 14:16:57

Subject	In 2050 what would your grandchild think of your fracking?
From	Karen Newkirk
Sent	8/12/2022 2:16:57 PM

Fracking will damage cultural heritage, our climate and threaten our water supplies. Please don't continue fracking in the NT.
Your sincerely,
Dr Karen Newkirk

Karen Newkirk
****
NSW 2295

Newland, Chris – Sunday, 14 August 2022 – 14:46:17

Subject	Stop the expansion of the fossil fuel industry
From	Chris Newland
Sent	8/14/2022 2:46:17 PM

It is time to step up and stop further expansion of the gas industry. We have a very short window of opportunity to cease the devasting effects of burning fossil fuels, and opening new gas mining sites will not help in any way. Your children and grandchildren will hold you responsible for the decisions you make today, so act with integrity, follow the science, and stop this expansion of the fossil fuel industry which may well lead to the destruction of all living beings on this planet.
Sincerely
Chris Newland

Chris Newland
****
NSW 2534

Newling, Lisa – Saturday, 13 August 2022 – 16:39:47

Subject	It's time to stop Origins fracking plans
From	Lisa Newling
Sent	8/13/2022 4:39:47 PM

To: Northern Territory Department of Environment, Parks, and Water Security

Dear Sir/Madam,
I am a resident of NSW who works in western Sydney where the overnight minimum temperatures have been climbing at an alarming rate in recent years, with extreme negative impacts on residents' sleep and mental health. This is a clear effect of human-generated "anthropogenic" climate change. It is not some future maybe. It is happening right here and right now.
Therefore, I am writing to ask you to put an end to Origin's plans for fracking in the Northern Territory. Unfortunately Origin has a track record of putting the focus of their efforts into avoiding genuine action on any Environmental controls that Government might put in place. Any further natural gas exploration, instead of investing in renewable energy sources, will only exacerbate the severity of our already dire climate emergency. It does not make any sense to keep investing in gas and fossil fuels.

Neither has Origin made genuine efforts to consult with the Aboriginal Traditional Owners of the land that they want to destroy with their fracking projects. Aboriginal Elders have thousands of years of wisdom for living sustainably in this land we now call Australia. They have never needed to plunder the Earth's natural resources in order to live comfortably.

Please ensure that the Northern Territory Government stands firm to reject Origin's proposal to keep exploring for natural gas in the NT. Any new gas project must be required to submit accurate and realistic numbers to quantify the climate, environmental and Cultural impacts that the project will have during its operation, and include the impact of the carbon emissions that will arise from the activities of the industries that buy the gas.

Origin's project proposal outlines a massive diversion of precious water resources into the project if it goes ahead. They must be required to provide accurate data on the impacts that this diversion will have on the environment, Aboriginal Cultural Heritage and all other land users. The NT Government must require Origin to provide this information in addition to doing an independent assessment so that there can be transparency about Origin's commitment to these core aspects before a formal submission is considered. Unfortunately, Origin has already sought to circumvent the checks and balances that have been imposed on their existing fracking activities.

Surely we owe it to our children and grandchildren to stop this environmental devastation any way possible. This must include a ban on any new fracking projects as a minimum.

I urge you to strongly recommend that this proposal NOT proceed.

Yours in hope of a sustainable future for all of us,
Dr Lisa Newling
Mount Druitt NSW 2770

Lisa Newling
****

NSW 2038

Newman, John – Thursday, 11 August 2022 – 15:24:35

Subject	Fracking the Beetaloo Basin is a stupid Idea
From	John Newman
Sent	8/11/2022 3:24:35 PM

Origin's plans to frack gas in this basin is a stupid and dangerous thing to do. The chemicals used in this process destroy the utility of the water underground. This is because of the chemical agents used in the process are left behind and do not allow that water to be used for any other purpose.

Origin knows this but is so determined to monetise the resource that they do not care about the people that come after.

So under no circumstances should this proposal go ahead. Origin is only thinking of themselves. A lot like the people who buy up small allotments, dump carcinogenic chemicals and then on sell. Or dump truck loads of crushed glass and leave the mess for some one else to clean up the mess. Unfortunately once the fracking agents enter the water table there is no viable cleanup process. The water is polluted and useless.

In short, Origin should not be allowed anywhere near someone else's land. It is not their land and must not destroy for these tribal peoples or owners of the cattle stations. It is a short term gain for the Origin freeloaders and long term loss for the people with a real interest and concern for the land.

John Newman

John Newman
****
ACT 2615

Newport, Richard – Sunday, 14 August 2022 – 10:58:41

Subject	Be responsible and mature, stop fracking!
From	Richard Newport
Sent	8/14/2022 10:58:41 AM

To carry on franking when we know that burning fossil fuel is destroying our planet and will kill the world's poorest human beings.
It is just plane selfish and greedy to increase the risk of climate change just for a short money gains that will benefit people that already the ability to alternative power.
Yours sincerely.
Richard newport

Richard Newport
****
QLD 4563

Newton, Anthony – Saturday, 13 August 2022 – 18:16:59

Subject	stop origin fracking plans
From	Anthony Newton
Sent	8/13/2022 6:16:59 PM

I am very concerned about the fracking wells, I demand the department reject origins plans

Anthony Newton
****
NSW 2777

Newton, Carol – Sunday, 14 August 2022 – 13:22:04

Subject	Stop Origins fracking plans
From	Carol Newton
Sent	8/14/2022 1:22:04 PM

No fracking.

Carol Newton
****
QLD 4568

Newton, John – Thursday, 11 August 2022 – 14:45:28

Subject	Stop Origin's gas fraking plans
From	John Newton
Sent	8/11/2022 2:45:28 PM

To whom can help,

Fracking for gas or any new gas projects will help kill all future children.
Any government that promotes Fracking for gas or any new gas projects are promoting the genocide to the future of all children.
Please help stop the said genocide because short term profits do NOT justify this, so go home and tell your kids, "I've helped stop Origin's gas Fracking plans".

With respect,
John

John Newton
****
NSW 2780

Newton, Zac – Sunday, 14 August 2022 – 15:59:42

Subject	Stop origins fracking plans
From	Zac Newton
Sent	8/14/2022 3:59:42 PM

Stop this irreversible damage to our country!!!

Zac Newton
****
QLD 4161

Nichol, Susan – Thursday, 11 August 2022 – 19:39:39

Subject	Stop Origin's fracking plans
From	Susan Nichol
Sent	8/11/2022 7:39:39 PM

To the NT Department of Environment, Parks and Water Security. My name is Susan, and I am a teacher with a young son living in the beautiful alpine area of Victoria. I had the absolute privilege to finally visit the NT in 2021 and was in awe of the incredible natural environment and culturally significant sites in the NT. However, it is dismal that in 2022 we are still having to plead with governments to consider detrimental environmental impacts and for them to listen to First Nations peoples about proposed uses of cultural land. New fracking drills are a risk to the environment, and will hinder initiatives to address climate change. Not only will gas continue to add to the climate catastrophe (whether or not it is Scope 3 or Scope 1!) but alongside this is the alarming information that in this instance Origin have not implemented all recommendations from the Pepper Inquiry. My son and the students I teach are keenly aware of the importance of acting decisively on climate change, alongside the importance of consulting First Nations peoples about proposals for their land on which we are fortunate enough to reside. For the future of all peoples, you must reject Origin's EMP.

Susan Nichol
****
VIC 3741

Nicholls, Carol. – Sunday, 14 August 2022 – 14:30:37

Subject	Stop Origin's plans to Frack
From	Carol. Khan Nicholls
Sent	8/14/2022 2:30:37 PM

To the Northern Territory Department of Environment, Parks and Water Security,
I am writing to beg you to cease and descist from pursuing plans to frank on the beautiful lands of the Australian interior. We know the are far from barre or waste land and the sites are connected to thousands of generations of historical heritage and significance for First Nations people of the area. Fracking, injecting chemical to extract fuels, is a most problematic process that, as other forms of mining that have preceeded it, will leave a toxic footprint in its wake. The plants, animals and people will suffer for generations to come, from the poisoning of water tables, and abandoned toxic infrastructure. Please honour the will of the people and prevent these mines from proceeding.

Your,
Carol Khan

Carol. khan nicholls
****
QLD 4121

Nicholson, Bruce – Friday, 12 August 2022 – 17:59:25

Subject	bruce_nicholson@me.com
From	Bruce Nicholson
Sent	8/12/2022 5:59:25 PM

Fracking should not be allowed anywhere in Australia. The threat to water supplies is unacceptable!

Bruce Nicholson
****
NSW 2016

Nickell, Dennis – Friday, 12 August 2022 – 20:17:40

Subject	stop the fracking
From	Dennis Nickell
Sent	8/12/2022 8:17:40 PM

To the Northern Territory Department of Environment, Parks and Water Security,
Please halt the destructive, invasive, climate and environmental wrecking that fracking is and listen to the inhabitants of the Land - No to Fracking!!
It pollutes the land forever, increases CO2 emissions and the recommendations of the Pepper Enquiry have not been implemented yet!
I, Dennis Nickell, as as concerned citizen of Kangaroo Valley in NSW, I implore the Department to reject Origin's EMP.
Kind regards,
Dennis Nickell

Dennis Nickell
****
NSW 2148

Nicon, Julie – Sunday, 14 August 2022 – 08:07:23

Subject	Please stop Origin's fracking
From	Julie Nicon
Sent	8/14/2022 8:07:23 AM

Please stop making short sighted political decisions that are ruining our country. It is a crime against the future generations and it is unconscionable that corporations should profit at the expense of citizens.

Julie Nicon
****
SA 5049

Nielsen, Ruth – Sunday, 14 August 2022 – 17:30:02

Subject	Stop Origin's Fracking Plans
From	Ruth Nielsen
Sent	8/14/2022 5:30:02 PM

Greetings,

It is imperitive that the NT Government does NOT allow Origin to open new fracking wells . Fracking has disasterous consequences in relation to water, climate and country.

Support Traditional Owners and all other citizens and reject Origin's application to open twelve new fracking wells in the NT.

Sincerely,
Ruth Nielsen

Ruth Nielsen
****
NSW 2474

Nielsen, Sue – Sunday, 14 August 2022 – 13:37:11

Subject	Stop fracking in the NT!!!!
From	Sue Nielsen
Sent	8/14/2022 1:37:11 PM

Attention
The Minister for NT parks and environment.
Please do not allow any fracking in the NT.
Please do not ignore the requests to not allow fracking in the NT.

Once water quality is destroyed through fracking it can never be improved again.
Yours sincerely,
Sue Nielsen

Sue nielsen
****
NSW 2576

Nimmo, Christopher – Friday, 12 August 2022 – 15:09:16

Subject	Stop Origins fracking plans
From	Christopher Nimmo
Sent	8/12/2022 3:09:16 PM

Fracking should be banned as being dangerous to water and climate change.

Christopher Nimmo
****
NSW 2537

Nix, John – Friday, 12 August 2022 – 15:00:13

Subject	Origin's Fracking Proposal
From	John Nix
Sent	8/12/2022 3:00:13 PM

Big corporations risking long term damage to the environment and water tables in pursuit of the almighty dollar.Enough is enough.Politicians on the take and big business treating the indigenous populations as mugs must end.The CEO's and politicians will be retired on obscene superannuation balances and parliamentary pensions when the legacy of environmental vandalism is wrought on future generations.Grow a set and stand up for the constituents who put you in Government to represent their best interests now and in the future.Approve the further irreversible degradation of the Australian environment at your own peril.

John Nix
****
VIC 3437

Nixon, Greg – Thursday, 11 August 2022 – 19:02:22

Subject	Stop Origins fracking plans
From	Greg Nixon
Sent	8/11/2022 7:02:22 PM

Northern Territory Government
Dear Sir/Madam
It is too risky
No Fracking means no you can NOT frack our country or our water.
Remember Werris Creek NSW where frackers flooded their mine making it economically unviable.
Dont risk country like they did in NSW
Build Bradfield Scheme instead if you want to build something that wont risk our future& our childrens children wont have to starve
Thank you for not fracking
Greg

Greg Nixon
****
VIC 3182

Nixon, Ursula – Sunday, 14 August 2022 – 17:14:36

Subject	Stop Origin's fracking plans
From	Ursula Nixon
Sent	8/14/2022 5:14:36 PM

To the NT Government Dept of Environment, Parks and Water security.

As a retiree with huge concerns about the protection of our planet and the environment I am very worried about Origin Energy's plans in regard to exploratory fracking wells in the NT.

It seems to me that Origin Energy's plan to develop disastrous gas production is without the right license. If they discover gas during the exploratory stage then they are likely to go ahead and sell production licenses, at a time when the emphasis is on renewable energy. it would be better to think of wind or solar energy, rather than despoil our suffering planet with more exploratory wells.

Origin are certainly not accounting for climate impacts. The exploratory stage alone could create over 2 million tonnes of emissions.

Furthermore their plans demand huge amounts of water.: 430 million litres of water for the 12 exploratory wells. What happens if the water supplies for Traditional owners are either contaminated or run dry? To what extent does Origin have a plan for waste water?

What really annoys me is the way Origin Energy are ignoring the rights and preferences of traditional owners. In 20i8 the Pepper Inquiry into Hydraulic Fracturing in the NT resulted in 135 recommendations into lessening the environmental, social, cultural and economic dangers produced by fracking. It does not appear, given the lifting of the moratorium on fracking, that these recommendations have been adhered to.

If the NT government allows Energy to destroy country, water and our already seriously depleted climate and environment, this would be a dangerous precedent for other energy companies who can only think fracking. Surely it is high time to draw a line under the practice and encourage development of renewable energy supplies.

I implore the Department to reject Origin Energy's fracking plans.

Ursula Nixon Phd

Ursula nixon
****
NSW 2545

Nock, Brendan – Thursday, 11 August 2022 – 15:21:59

Subject	brutalbrendan1@hotmail.com
From	Brendan Nock
Sent	8/11/2022 3:21:59 PM

Attention: Department of Environment, Parks and Water Security

Hello

It is understood that Origin plans to open twelve new fracking drills in the Northern Territory.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

In the interest of protecting Country, water and the broader environment, please do not allow this to go ahead.

Thank you or your consideration of this.

Brendan Nock
****
WA 6102

Nolan, Terry – Friday, 12 August 2022 – 09:37:25

Subject	Origins plan to open new gas sitesin the Northern Territory
From	Terry Nolan
Sent	8/12/2022 9:37:25 AM

These new gas sites will further increase the pollution of our atmosphere thereby increasing global warming. We have recently witnessed the results of global warming with major bush fires & floods the like of which we have never experienced before.
It does appear that it is more important that profit,to mainly foreign gas companies, [95.7%] is more important than the health of people or the environment.

Terry Nolan
****
QLD 4165

Noonan, Ethel – Sunday, 14 August 2022 – 17:33:38

Subject	Stop Origin's fracking plans
From	Ethel Noonan
Sent	8/14/2022 5:33:38 PM

To the Northern Territory Department of Water and environment
I request you to stop granting Origin permission to frack our beautiful country in their search for gas. Our underground water supply is so precious that the thought of it being contaminated is horrific. PLEASE STOP ORIGIN FRACKING

Ethel Noonan
****
WA 6230

Norris, Dave – Sunday, 14 August 2022 – 15:28:38

Subject	Stop Origin from openning new fracking drills in the Northern Territory
From	Dave Norris
Sent	8/14/2022 3:28:38 PM

Say NO to new fracking in the Northern Territory

Dave Norris
****
NSW 2489

North, Helen – Thursday, 11 August 2022 – 16:24:14

Subject	Stop Origin's fracking plans
From	Helen North
Sent	8/11/2022 4:24:14 PM

To the Northern Territory Department of Environment, Parks and Water Security,

Please accept this submission regarding Origin's plans for fracking on the Amungee Mungee pastoral station.

I'm concerned that Origin haven't accounted for or addressed the full climate impacts.

I also am very worried about the amount of water required for the 12 wells, and the amount of wastewater which will be produced, which will have to be shipped interstate.

I'm also very concerned that Origin haven't as yet implemented all of the recommendations from the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory. The moratorium on fracking in the NT was only lifted on the condition that these recommendations were implemented.

In short, I'm very concerned at the precedent that would be set by allowing Origin to proceed with its plan for 12 exploration wells on the Amungee Mungee pastoral station and ask that the Department does not provide approval for these plans.

Thank you for your consideration of my concerns,

Yours faithfully,

Helen North

Helen North
****
VIC 3444

North, Raven – Friday, 12 August 2022 – 14:32:45

Subject	PLEASE STOP! Origins fracking plans CNN in the NT
From	Raven North
Sent	8/12/2022 2:32:45 PM

The plans for Origin to open 12 new fracking wells are totally in opposition to the local indigenous communities health, welfare & cultural needs & will be devastating for the environment.
Drawing on enormous quantities of water from the aquifer which has been accumulated over thousands of years & cannot be quickly replaced, & depriving the people, wildlife & ecosystems of access to vital & limited water supplies.
It is also contradictory to the Labor Government's Kyoto pledge, to reduce Carbon emissions by 50%.
These kinds of developments must be stopped, before this country becomes unliveable for all people, animals & plants!
Please reconsider this plan in the interests of future generations & their survival.
Thank you
Yours sincerely
Raven North

Raven North
****
SA 5213

Nott, Sandra – Friday, 12 August 2022 – 18:13:07

Subject	Please cease fracking & stop approving new fracking sites, eg Origin energy
From	Sandra Nott
Sent	8/12/2022 6:13:07 PM

Northern Territory Department of Lands & Water

As a fellow human, I beseech you to consider the health of our fragile planet.

For your own health & the health of your children and their children, I beseech you to please stop all fracking now; to ban future fracking & to remediate existing damaged lands.

There is overwhelming evidence fracking creates dangerous pollution & negatively effects the health of human, plant & animal life.

I pray you will help stop this destruction. If you don't then who will?

At what point will good people with common sense stand up and declare Mother Earth has a right to live.

Corporations and their search for profit are not the way to proceed. They have no long term future. Fracking pollutes the water. If humans don't have water they die. Then there's no market for the gas!

Please say no to wrecking this precious land so a business can accrue profits.

I trust you will make a good decision for all future generations.

Sincerely
Sandra Nott

Sandra Nott
****
NSW 2482

Novak, Sally – Friday, 12 August 2022 – 21:44:00

Subject	Stop origin fracking
From	Sally Novak
Sent	8/12/2022 9:44:00 PM

To the Northern Territory Department of Environment, parks and water security,
I am very concerned about fracking in the NT and the risk it poses to the security of our water table. I'm also disappointed that this is approved at all considering it is not wanted by the local communities or the general public. It is also reckless considering the current climate crisis. This is a time when we should be focusing on renewable resources and protecting the land. We should not be causing our planet any more distress.
Yours sincerely,
Sally Novak

sally novak
****
NSW 2303

Nowak, Robert – Saturday, 13 August 2022 – 14:44:39

Subject	Gas fracking and respecting Aborigines
From	Robert Nowak Nowak
Sent	8/13/2022 2:44:39 PM

To NT Department of Environment, Parks and Water Security.

You are meant to be a Labor government which makes this betrayal all the worse. Labor, generally, makes noises about climate issues, a few snuffles and grunts, but it is actions that matters and Labor's environmental record is not great.

I worked in the NT for quite a few years, especially in remote communities and in Alice Springs so I know that without the Aboriginal vote you would be stuffed so. I recall also that Labor was always pretty reluctant to pre-select Aboriginal candidates...but they sure liked the Aboriginal votes! I think it is pretty disgusting that a/ you even consider fracking given what you know about its history in the US and the potential for damaging underground aquifers and b/ you lack of loyalty to your aboriginal supporters.
If you go ahead with this you are little better than the criminal moron, Morrison. And it will end with the final demise of what was once a great political organisation. And I will not be sorry to see it go. If you cannot even keep up with the times we live in, let alone act in the interests of the future, then let the Labor Party wither.

Very Sincerely,

Robert Nowak

robert nowak Nowak
****
NSW 2665

Nowotny, Glenn – Thursday, 11 August 2022 – 19:34:55

Subject	Stop Origins fracking plans
From	Glenn Nowotny
Sent	8/11/2022 7:34:55 PM

To the Northern Territory Department of Environment, Park and Water Security
Hello my name is Glenn I was born in Western Australia and have visited the NT a few times and loved it, I am very concerned that any Fracking in the Northern Territory will be
a total nightmare. There is no safe fracking, all there is is damaged land, water and people, why do something that is so bad please leave the NT free of this horrible idea.
Please do not Frack the NT
Respectfully
Glenn Nowotny

glenn nowotny
****
NSW 2480

Noy, Lisa – Saturday, 13 August 2022 – 16:02:31

Subject	No Fracking
From	Lisa Noy
Sent	8/13/2022 4:02:31 PM

Fracking is dangerous to our waterways. Our waterways are our most precious resource in a country like ours.
Is there any other way to obtain gas other than fracking? There must have been in the past but man is greedy and impatient. These companies care very little about the environment and until they do or are made to then we have to be very careful how we extract gas from our land.
Regards
Lisa Noy

Lisa Noy
****
QLD 4116

Nunan, Pauline – Thursday, 11 August 2022 – 14:39:32

Subject	Origin's Fracking Plans
From	Pauline Nunan
Sent	8/11/2022 2:39:32 PM

I am writing in support of NT traditional owners and against fracking plans by Origin. These plans are unnecessary and far more effort is needed in renewable energy sources rather than these plans that will impact very negatively on water resources, cultural heritage and climate change.
Our world is further endangered by fracking.
Sincerely
Pauline Nunan

Pauline Nunan
****
VIC 3052

Nunis, Thalia – Sunday, 14 August 2022 – 09:50:45

Subject	Stop Origin's fracking plans
From	Thalia Nunis
Sent	8/14/2022 9:50:45 AM

To Northern Territory Department of Environment, Parks and Water Security

I am writing to beg you not to support any more fracking in the NT and particularly the current EMP by Origin. There is no place for fossil fuels in our future. This point has been made over and over again by numerous international bodies (especially the IPCC), by politicians and statespeople of all political persuasions and by grass roots organisations in pretty much every country in the world. The planet can't take it and we, the people, don't want it.

We also don't want the continued disregarding and destruction of the cultural artefacts and traditions of the people who are the true owners of the proposed fracking sites.

We understand that there is an energy crisis and something needs to be done but instead of pouring billions of dollars into an obsolete industry, which merely postpones the problem and at the cost of the environment and people's cultural life, you need to be finding permanent solutions such as speeding up the approval process for solar farms. It is this short-termist approach that is destroying the environment and ultimately killing people.

Please do the right thing and reject Origin's EMP and any other proposals that are put before you to frack in the Northern Territory.

Thalia Nunis
****
NSW 2572

Nunn, Diana – Friday, 12 August 2022 – 17:26:41

Subject	New fracking projects in NT
From	Diana Nunn
Sent	8/12/2022 5:26:41 PM

To the NT government
Dear elected Members,
It's with disbelief that l learn you are considering allowing Origin Energy to begin new fracking ventures. What ever the financial gain, l believe it will not make up for the environmental and social costs of the project. It is time for our governments to begin making difficult but necessary decisions to ensure we leave an acceptable legacy for future generations.
In anticipation
Diana Nunn BSc. Dip.Ed. TTC

Diana Nunn
****
TAS 7215

Nunn, Lance – Saturday, 13 August 2022 – 17:24:45

Subject	The NT Government needs to stop Origin's reckless fracking plans
From	Lance Nunn
Sent	8/13/2022 5:24:45 PM

You need to stop Origin's plans to open twelve new fracking drills in the Northern Territory. These wells which threaten water, cultural heritage, and our climate.

Allowing Origin to proceed would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Regards

Lance Nunn

Lance Nunn
****
QLD 4133

Nutini, Loretta – Sunday, 14 August 2022 – 14:27:06

Subject	Stop Origins fracking drills
From	Loretta Nutini
Sent	8/14/2022 2:27:06 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Loretta Nutini
****
WA 6009

Nuttney, Mark – Friday, 12 August 2022 – 14:04:30

Subject	Do you want to Drink Fracked Water - Stop Origins Fracking Plans Immediately
From	Mark Nuttney
Sent	8/12/2022 2:04:30 PM

Fracking the NT is an insane proposal.

I would only agree to it if all politicians in favour of it drink fracked water everyday for a month.

Not such a good idea is it !
Well stop putting your short term profit mentality onto citizens who have to live with the long term fall out from such insane industrial measures.

There is a duty of care which all Plutocratic companies in this Kelptocracy masquerading as a democracy, have and they all to readily destroy our collective environment for short term profit.

So STOP Origins plans to frack in the Northern Territory immediately.
We expect more responsibilty and accountability from those entrusted with our nations energy needs.
You cannot destroy our natural resources for short term gain.

Thank you for your attention.

With Respect

Mark Nuttney

Mark Nuttney
****
VIC 3196

Nymous, Ano – Friday, 12 August 2022 – 09:33:32

Subject	Att: Delineation Program, Department of Environment, Parks and Water Security - Stop Origin's Fracking
From	Ano Nymous
Sent	8/12/2022 9:33:32 AM

To the relevant "gate keeper"

I won't be to prosaic in my submission to you to put a stop to Origin's fracking plans, and will get to the point. Who I am is not relevant and I hope you focus on the content rather than the messenger.
1.) Experience has shown, fracking is bad for community, their water security, social relationships and people's faith in elected government officials to represent the broader community's wishes.
2.) Fracking only benefits a small amount of individuals financially. 3.) Remember how the Northern Rivers NSW community was engaged and took action against similar "Fracking Plans" by Origin.
4.) Respect first nations people for a change and protect their sense of agency by listening to them. Reflect on your own experience when you are not listened to and are being minimised.
5.) Fossil fuels are soo yesterday, the science has substantiated this in numerous "unbiased" studies. The use of fossil fuels are not good for the environment.
6.) Scientific studies have shown the practice of fracking is fraught with problems and risk factors do not outweigh "projected gains". Vested parties such as Origin are biased and do not report accurately on likely "soft outcomes" in their submissions as it would likely stop the application in their tracks. As any gatekeeper with an unbiased conscious would immediately see. With a little bit of effort change for the good of all is possible. This decision is basically resting in your hands.

Kind regards,
Ano Nymous

Ano Nymous
****
NSW 2480

O’Brien, Keith – Saturday, 13 August 2022 – 07:23:52

Subject	No to origins fracking!
From	Keith O’Brien
Sent	8/13/2022 7:23:52 AM

Northern Territory department of environment,parks and water security ,
Please do not accept fracking in any area of our land. A recent visit to this area showed me the incredible beauty of this place. The sense of spirit is strong. As inhabitants, we are here to support , not destroy land and spirit. Our human history already shows our ways of mining is not sustainable. Do not proceed with fracking.
Protect this beautiful land. Find other solutions.

Keith O’Brien
****
NSW 2480

O’Connor, Cheryl – Thursday, 11 August 2022 – 16:00:23

Subject	For Heaven’s Sale - STOP FRACKING!
From	Cheryl O’Connor
Sent	8/11/2022 4:00:23 PM

Your greed and shocking track record in so may area leaves me with no confidence that fracking will benefit anyone or anything except your company and shareholders Do something useful for the community at large and Indigenous communities in particular to regain some sort of moral strength. Your company is COMPLETELY AND UTTERLY reprehensible!

Cheryl O’Connor
****
NSW 2594

Oaten., Rod – Sunday, 14 August 2022 – 20:23:13

Subject	Stop origans fracking plans
From	Rod Oaten.
Sent	8/14/2022 8:23:13 PM

Northern Territory Parks

Stop Origin's plans for Fracking which will threaten water and cultural heritage and our climate

Rod Oaten.
****
VIC 3054

Oates, Beth – Saturday, 13 August 2022 – 14:51:44

Subject	PLEASE STOP
From	Beth Oates
Sent	8/13/2022 2:51:44 PM

NT Dept of Environment, Parks and Water Security,
Please stop this crazy plan - come on now is the time to take action or the consequences will be with you and your family forever...
Water is life. It's as simple as that, without a healthy environment we are nothing.
It's fundamentally wrong, and of incredible disrespect to the traditional owners who have been living in harmony with their environment for many thousands of years.
FRACKING IS ABUSE! PLEASE LISTEN! NOW IS THE TIME TO SAY NO!

Beth Oates
****
WA 6280

Oberstebrink, Christina – Sunday, 14 August 2022 – 17:13:03

Subject	Stop Origin from fracking in the NT
From	Christina Oberstebrink
Sent	8/14/2022 5:13:03 PM

As an Australian I am deeply concerned about climate change and how we are collectively destroying the planet and our own hopes for the future. Not only does fracking have an extremely large carbon footprint (larger than coal due to leakage of gases and methane heating up the atmosphere much more than co2, it will ruin the groundwater in territory that is dependent on this water. What are future generations in this part of the world going to drink?
Fracking is a highly irresponsible technology and should in no way be supported by any government that is serious about providing a livable future for its people and future generations. And not by any government serious about tackling climate change.
Yours sincerely,
Christina Oberstebrink

Christina Oberstebrink
****
NSW 2758

O'brien, Denise – Saturday, 13 August 2022 – 08:01:03

Subject	Fracking NT
From	Denise O'brien
Sent	8/13/2022 8:01:03 AM

Stop Origin energy from fracking

Denise O'Brien
****
QLD 4179

O'brien, Janette – Sunday, 14 August 2022 – 18:33:25

Subject	Stop Origins fracking plans
From	Janette O'brien
Sent	8/14/2022 6:33:25 PM

Northern Territory Environment minister..The Northern Territory us an important natural environment ...which needs to be protected for the indigenous people and for all Australians..we are losing our valuable natural lands..please protect them for our future.

Janette O'Brien
****
NSW 2213

O'brien, Sue – Sunday, 14 August 2022 – 16:52:59

Subject	Stop Origin's Fracking Plans
From	Sue O'brien
Sent	8/14/2022 4:52:59 PM

I am writing to respectfully request the NT Government to consider deeply Origin's plans to open new fracking drills in the Northern Territory and find it unacceptable and incompatible in the light of today's knowledge of the harm it can do to the land, people and the planet. Fracking can cause contamination of water sources and is very water intensive. Water is a critical and increasingly scarce resource for community, agriculture, health and wellbeing. It is time to respect the land, respect the Traditional Owners and their rich and important cultural heritage and wisdom. Science shows how fragile the climate is now and it is time to turn away from climate damaging energy practices and turn to renewables. I hope the NT Government will set a commendable example in rejecting Origin's fracking plans.

Sue O'Brien
****
NSW 2121

Ochtman, Martin – Saturday, 13 August 2022 – 15:02:38

Subject	Stop Origins Fracking in NT
From	Martin Ochtman
Sent	8/13/2022 3:02:38 PM

The most valuable resource in Australia is not gas it is water. We must not frisk our aquifers. There is no guarantee fracking will not damage the aquifers, there are examples, esp in the USA where fracking has damaged aquifers. Do not take this risk in Australia

Martin Ochtman
****
NSW 2469

O'connor, Catherine – Friday, 12 August 2022 – 18:56:24

Subject	Stop Origin's Fracking Plans
From	Catherine O'connor
Sent	8/12/2022 6:56:24 PM

Please do not allow Origin to open twelve new fracking drills in the Northern Territory - well which threaten water, cultural heritage and our climate. Our Traditional Owners have been staunchly defending their country against Origin for years. Please help.
Regards, Catherine O' Connor.

catherine o'connor
****
WA 6007

O'connor, Laurence – Monday, 15 August 2022 – 16:41:17

Subject	Stop Fracking by Origin in the NT
From	Laurence O'connor
Sent	8/15/2022 4:41:17 PM

Do not allow Origin to drill new fracking drill in NT. Consult the traditional owners, and look at the envoronmental effects.
L O'Connor

Laurence O'Connor
****
NSW 2785

O'donnell, Derek – Friday, 12 August 2022 – 14:34:42

Subject	Stop origin fracking plans NT
From	Derek O'donnell
Sent	8/12/2022 2:34:42 PM

To Northern Territory Parks , wildlife , and environmental council.

I have served my country in the military for the good of all people that live in this great country Australia.
I am currently driving around our country in a caravan and enjoying what nature has to offer. There are numerous sites throughout this country with fracking machines which not only look crap in the landscape but it is well documented that fracking ruins ground water to a stage that the contamination affects both land , flora and fauna.
I can't even take my dogs onto national park land but origin wants the NT government to ignore the worst case scenario's and frack .
This is not acceptable as a tax paying citizen. Stop all fracking now MT government grow a spine and stand up for all Australian people and all states and territory and stop fracking

Derek O'Donnell
****
QLD 4226

O'donohue, Rosemary – Thursday, 11 August 2022 – 16:26:16

Subject	No fracking please
From	Rosemary And Conrad Kiss And O'donohue
Sent	8/11/2022 4:26:16 PM

Northern Territory Department of Environment

Fracking in this day and age is unacceptable anywhere; our environment cannot and should not have to tolerate it. When Traditional Owners are involved, we think the NT Government is also morally bound to resist further destruction of their heritage which, in fact, belongs to all Australians. Please do not let Origin proceed.

Rosemary and Conrad Kiss and O'Donohue
****
VIC 3215

Odwyer, Nicholas – Sunday, 14 August 2022 – 20:59:02

Subject	Origin's fracking plans must not be approved
From	Nicholas Odwyer
Sent	8/14/2022 8:59:02 PM

Dear Sir/Madam,

I am writing to urge you not to approve Origin's application to drill and frack 12 new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters. These wells would threaten water, cultural heritage, and our climate.

TheTraditional Owners have been staunchly defending their country against Origin for years because of the risks to water, country, and cultural heritage. But Origin have ignored them - a callous and ignorant approach that is profoundly disrespectful towards indigenous culture.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate. Yet Origin's exploration and appraisal manager, Alexander Côté, has een admitted they have no plan to manage toxic wastewater. They are saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

Climate change is now out of control. This means that we cannot afford any new fossil fuel mining. It beggars belief that this proposal from Origin would be taken seriously. Again, I urge the Department to reject Origin's Environment Management Plan.

Yours sincerely,

Nicholas O'Dwyer

C13/1 Buchanan Street
Balmain
NSW 2041

Nicholas Odwyer
****
NSW 2041

Okalyi, Sandy – Friday, 12 August 2022 – 14:58:20

Subject	Stop Origins fracking plans
From	Sandy Okalyi
Sent	8/12/2022 2:58:20 PM

No more gas in our house, no more Origin ever again. What a disgusting company

Sandy Okalyi
****
QLD 4101

O'leary, Jan – Friday, 12 August 2022 – 13:20:59

Subject	Origin's Amungee Mungee application
From	Jan O'leary
Sent	8/12/2022 1:20:59 PM

Please accept this as my submission in response to Origin's plans to drill 12 new wells on the Amungee Mungee pastoral station. I strongly oppose these plans on environmental grounds. The damage done by fracking operations are now well established. Also I believe the wishes of the traditional owners in the area who oppose the drilling must be respected. Its longer term impacts on climate change at this critical point in the world's attempts to halt catastrophic warming also cannot be under-estimated.

Thank you for the opportunity to make this submission.

There is also a problem with this proposal in Origin's intention to sell gas prior to being granted a production licence.

Jan O'Leary
****
NSW 2777

Olenich, Victoria – Sunday, 14 August 2022 – 15:48:18

Subject	victoria.olenich@gmail.com
From	Victoria Olenich
Sent	8/14/2022 3:48:18 PM

I am totally against fracking. Please do not approve any plans for fracking by any corporations. You will lose my vote if you allow this to happen. I stand united with Traditional Owners against Origin's plans and any future plans by any corporations involved with fracking.

Victoria Olenich
****
SA 5020

O'loughlin, Reed – Saturday, 13 August 2022 – 15:23:41

Subject	Stop Origin's Fracking Plans
From	Reed O'loughlin
Sent	8/13/2022 3:23:41 PM

To the Northern Territory's Department of Environment, Parks and Water Security,

My name is Reed O'Loughlin, I'm a 27 year old Master of Social Work Student, and I live in Tarndanya/Adelaide. I'm writing to ask the Department to reject the Environmental Management Plan put forward by Origin Energy to open new fracking drills in the Northern Territory.

I am not Aboriginal or Torres Strait Islander but I have family ties in the NT and a deep respect for First Nations Traditional Owners. First Nations peoples and communities have never handed over the sovereignty over Country, including lands, waters and skies.

The nation-state known as Australia prides itself on a unique and ancient landscape. This continent has been cared for by First Nations peoples for at least 180,000 years, though I am sure more evidence will be/has already been found that will indicate even longer connections. These communities are the experts, caretakers and custodians of their Countries. First Nations Traditional Owners must be listened to when it comes to caring for Country. They are telling us that Origin's fracking plans threaten water security, cultural heritage/sites and and the health of Country. To go ahead with Origin's plans would not only be deeply disrespectful to First Nations communities, it would potentially breach of the UN Declaration on the Rights of Indigenous Peoples, to which Australia is a signatory since 2009. Australia's track record with First Nations people is shameful, and we must not add more destruction of Country through Origin's fracking to the list of violent crimes committed by Australia against First Nations people and Country.

Further to this, I am deeply concerned about my own welfare across my lifespan if Australian governments continue to allow new oil and gas to be dug up and produced by fossil fuel companies such as Origin. The fact that ordinary people such as myself have to beg governments to listen to the science and take meaningful and urgent action to address the existential threat of climate change is another cause of shame for Australians.

I am currently writing this submission while undertaking my last social work placement. Honestly, I have other things I should be doing. But my concern for the future is so great that my education and career can begin to feel meaningless. What kind of future am I working towards? What kind of stability and joy can be found in a future filled with increasing natural disasters, climate-invoked pandemics, and wars over energy, food, migration and water insecurity? It may sound dramatic, but we are being warned of such possibilities by experts, and I have seen and felt across my lifetime that leaders do not tend to be motivated to act on these warnings.

Please, represent the interests of citizens, Traditional Owners, the environment and the future over those of Origin Energy. Please, reject the Origin's Environmental Management Plan to open new fracking drills in the NT.

Yours sincerely,

Reed O'Loughlin

pronouns: they/them

Reed O'Loughlin
****
SA 5035

O'neill, Tom – Friday, 12 August 2022 – 17:12:43

Subject	Opposed to Origin Fracking
From	Tom O'neill
Sent	8/12/2022 5:12:43 PM

I am strongly opposed to the Origin Energy Fracking plans. The plans have the potential to destroy country, water and climate.
Please consider our children's future.

Kind regards Tom O'Neill

Tom O'Neill
****
NSW 2102

Ongan, Shay – Sunday, 14 August 2022 – 14:44:07

Subject	Stop fracking!
From	Shay Ongan
Sent	8/14/2022 2:44:07 PM

Respect of the First Nations of this land is crucial and must be respected - profit cannot but nationhood particularly in this climate crisis .

shay ongan
****
NSW 2085

Onstenk, Kathy – Sunday, 14 August 2022 – 14:56:43

Subject	Please stop Origin's fracking plans
From	Kathy Onstenk
Sent	8/14/2022 2:56:43 PM

Origin's planned new fracking drills threaten water, cultural heritage and our climate. Approval would be setting a horrifying precedent for other fracking corporations to do the same.
As a citizen of this great country I am asking the department to reject Origin's EMP.

kathy onstenk
****
ACT 2615

Opie, Margaret – Thursday, 11 August 2022 – 20:50:34

Subject	Water is life
From	Margaret Opie
Sent	8/11/2022 8:50:34 PM

To the Northern Territory Department of Environment, Parks and Water Security, I am writing because I am concerned that the future of our land and sustainable water supplies are threatened by the expansion of gas fracking in the Beetaloo Basin and in other areas of the Northern Territory.

I understand that mining companies are exempted from many of the obligations and restrictions placed on other land users. The dreadful mess left from the Jabiluka is visible evidence of the disastrous damage to the environment that multi-national corporations are happy to leave, to the despair of traditional owners, and at the expense of taxpayers.

In too many First Nations remote communities water quality is poor or even dangerous to health. Any activities that extract large amounts of water from our precious artesian supplies and pollutes them should not be allowed.

The Traditional Owners have been protesting the damage to precious water supplies for decades. As a result of the Olympic Dam operation the Mound Springs have all but disappeared. Yet when the Overland Telegraph was being developed 150 years ago water was freely able along the line, through the abundance of wells based on springs used by First Nations people for millenia.

Origin Energy should not be allowed to expand its fracking plans in the Northern Territory. At present they are earning enormous profits which provide little benefit to Australians, and the supply of gas is more expensive and harder to obtain for the country's inhabitants than for the overseas recipients.

It has been proven that the fracking process creates more harmful emissions than is acceptable in a world concerned about the changing climate. This is another threat to the future of our children and grandchildren, and all the generations of humans to come.

Please let us put people before profits - as a wise old Native American said "You can't eat money."

Margaret Opie
****
NT 0871

Oppen, Alice – Thursday, 11 August 2022 – 14:44:02

Subject	Stop Origin from fracking
From	Alice Oppen
Sent	8/11/2022 2:44:02 PM

Origin has been urging me to add gas to my electricity account with them. There is pressure on gas prices because they export so much. More fracking, endangering country and climate? No, no, no.

Alice Oppen
****
NSW 2110

Orams, Wendy – Sunday, 14 August 2022 – 12:27:12

Subject	No Fracking by Origin in NT
From	Wendy Orams
Sent	8/14/2022 12:27:12 PM

To the Northern Territory Department of Environmental, Parks and Water Security,
I am writing to express my opposition to Origin's plans to Frack in the Northern Territory. The negative impacts to the climate, to water quality and access and to the culture of indigenous people are too great to allow this to go ahead.
We cannot risk having fracking in the Northern Territory.
Regards, Wendy Orams

Wendy Orams
****
VIC 3055

O'reilly, Patricia – Sunday, 14 August 2022 – 10:27:39

Subject	Stop Origin's Fracking Plan
From	Patricia O'reilly
Sent	8/14/2022 10:27:39 AM

I am an Australian citizen and I do not condone fracking in the Northern Territory of Australia.
Fracking has been proved to damage the environment. It has been proved to poison water and damage communities and cultural heritage.
Australians do not give their permission for government to allow entities to frack the land.
These fracking entities have no rights here under true lore and the actions of these entities are detrimental to the land and bodies on this land.
Remove all fracking entities from the cultural lands of the Northern Territory.
Thank you
Regards
Patricia OReilly

Patricia O'Reilly
****
QLD 4508

Orlindhia, Alkira – Friday, 12 August 2022 – 18:27:53

Subject	Stop Origin's new fracking wells
From	Alkira Orlindhia
Sent	8/12/2022 6:27:53 PM

Origin's 12 new fracking wells must not be approved. These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doing anything they can to bypass proper processes, all without consent.

As long as we are in climate crisis coal, oil & gas developments must be phased out & no new developments approved.

We cannot impact indigenous peoples & treat them as if they have no rights any longer. Colonisation has done too much damage. It's time to start making amends.

Sincerely,

Alkira Orlindhia

Alkira Orlindhia
****
VIC 3013

O'rourke, Mary-Jo – Sunday, 14 August 2022 – 14:31:13

Subject	Stop Origin's fracking plans, please!
From	Mary-Jo O'rourke
Sent	8/14/2022 2:31:13 PM

I am a 58-year-old small business owner from Melbourne and I feel very strongly about this issue.

Origin is a very irresponsible, unethical and climate-wrecking company.
They want to fast track disastrous gas production without the right license
They haven't accounted for or addressed the full climate impacts
They want huge amounts of precious water
They haven't implemented all the recommendations from the crucial Pepper Inquiry
If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Please listen to the Traditional Owners.

Sincerely, Mary-Jo O'Rourke

Mary-Jo O'Rourke
****
VIC 3056

Orr, Elizabeth – Saturday, 13 August 2022 – 06:25:18

Subject	Stop Origin Frackimg and respect cultural and national heritage
From	Elizabeth Orr
Sent	8/13/2022 6:25:18 AM

There is strong evidence that fracking pollutes water and the Artisian base is a national resource. Please do not proceed with this short term resource grab.

Elizabeth Orr
****
VIC 3011

Osterlund, Jonas – Saturday, 13 August 2022 – 15:23:58

Subject	No more gas plants in NT
From	Jonas Osterlund
Sent	8/13/2022 3:23:58 PM

I'm in favour of scrapping all future wells being planned in the NT. The current gas shortage globally should be seen as an opportunity to increase renewable energy sources, not finding alternative sources of destructive gas.

Jonas Osterlund
****
VIC 3182

Ott, Sonja – Sunday, 14 August 2022 – 15:03:07

Subject	Stop fracking country please
From	Sonja Ott
Sent	8/14/2022 3:03:07 PM

Please stop fracking on country. The risks are high and the consequences are massive. There are other options, ask the experts. We do not need fracking and should not.

Sonja Ott
****
VIC 3056

Owen, Louise – Saturday, 13 August 2022 – 09:37:47

Subject	STOP Origin's fracking plans for the NT
From	Louise Owen
Sent	8/13/2022 9:37:47 AM

I am an English-born 'Australian' artist privileged to be living and working on traditional (but un-ceded) lands of the Gundungurra and Wodi Wodi people, in the Southern Highlands of NSW.

I am embarrassed and appalled by the ongoing 'White Australia' policy that enables big businesses and corporations to run amok and exploit our First Nation's people and their demands for defending their lands.

When will this total disregard and disrespect for Traditional Owners, their demands, and their rights, STOP ?

Traditional Owners do not want Origin or anyone else fracking on their land ! The risks to water, country, and cultural heritage are dangerous and irreversible.

Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the NT, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking.

The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

But right now, Origin is going ahead with fracking without all the recommendations being implemented !

This is yet another example of our government's treating our First Nation's people with contempt, and maintaining the status quo of treating them as second-class, actually third-class citizens, by enabling big business to overrule the voices and demands of Traditional Owners.

As a nation of the world, Australia is shamed and diminished by this disrespectful practise. The requests made by the Traditional Owners of this country for Origin (and other companies) to STOP the FRACKING are not being heard.

No means NO !

Louise Owen

Louise Owen
****
NSW 2577

Owen-Holmes, Kerry – Thursday, 11 August 2022 – 13:05:47

Subject	Stop Origin's Fracking Plan
From	Kerry Owen-Holmes
Sent	8/11/2022 1:05:47 PM

To the Northern Territory department

There is plenty of evidence that advisers Fraking is dangerous! It is concerning that this plan is being put forward over indigenous peoples rights and other Northern Territorians. What about climate change? There is no consideration here. This is a global issue definitely not the NT & Origan colluding together about taxes and profits.
Think with clarity it's not all about the dollars-which is only a short term gain

Kerry Owen-Holmes
****
VIC 3442

Oxenford, Ian – Sunday, 14 August 2022 – 19:32:30

Subject	stop Origin's reckless fracking plans
From	Ian Oxenford
Sent	8/14/2022 7:32:30 PM

Protect indigineous land rights and reject this destructive activity by Origin.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Ian Oxenford
****
NSW 2439

Paffeu, Pawel – Friday, 12 August 2022 – 16:08:26

Subject	stop Origin's reckless fracking plans
From	Pawel Paffeu
Sent	8/12/2022 4:08:26 PM

Dear NT Governement,

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Regards,
Paul Hanasz

Pawel Paffeu
****
NSW 2148

Page, Jonathan – Thursday, 11 August 2022 – 16:20:00

Subject	Stop Origin's fracking plans
From	Jonathan Page
Sent	8/11/2022 4:20:00 PM

Northern Territory Department of Environment, Parks and Water Security,
My name is Dr Jonathan Page, a specialist physician (oncologist). I am well educated in the fracking and other processes to extract fossil fuels from the earth, where they are used for energy generation, but unfortunately, after more than 200 years, this fuel has become lethally toxic, and now inflicting mortal injury to the planet, in addition to major water extraction and contamination in the area of actual fracking. This represents a willful and intolerable damage to the lands of the Traditional Owners. This unethical activity must cease immediately, and not resume anywhere, with due compensation to the Traditional Owners for damage already inflicted.
Respectfully yours,
Dr Jonathan Page

Jonathan Page
****
NSW 2062

Page, Karen – Sunday, 14 August 2022 – 14:11:56

Subject	Stop Origin's Fracking Plans
From	Karen Page
Sent	8/14/2022 2:11:56 PM

I find it unbelievable that you would be considering new fracking drills in the NT! I draw your attention to the traditional owners of the land and how they are staunchly defending their country. The repercussions of your actions will destroy the country, water and has an effect on our climate!
My name is Karen Page and I live in Queensland and am passionate about the effects of such things as fracking and opening more coal mines and I strongly urge the Department to reject Origin's plans

Karen Page
****
QLD 4703

Page, Lyn – Friday, 12 August 2022 – 14:41:18

Subject	Stop Origin's fracking plans
From	Lyn Page
Sent	8/12/2022 2:41:18 PM

Please do not approve Origin's fracking plans. Fracking will destroy not just the land but water as well as our climate. Shame on you even considering this at such a time when global warming must be stopped!

Lyn Page
****
NSW 2261

Pagotto, Pia – Saturday, 13 August 2022 – 19:44:28

Subject	Stop Origin's fracking plans
From	Pia Pagotto
Sent	8/13/2022 7:44:28 PM

To the NT Department of Environment, Parks & Water Security.

I am a concerned citizen as well as a grandmother very worried about the way our land is being treated and the climate change consequences that will make it a much more fraught world to live in for my grandchildren.

Fracking not only degrades land with it's environmental dangers which are well documented but also disrespects the First Nations people of this land who truly care for the land and are strongly tied to it spiritually and culturally.

From what i have read Origin is strongly bent on making profits at all costs with total disregard for the environment or First Nations wishes. How can this be permitted to be? I don't usually go writing submissions but i felt compelled to speak out, to give some voice to my outrage at this situation. Twelve new fracking wells, fast tracked no less. Gas is a fossil fuel, unacceptable in these times of escalating and damaging climate change.

I just don't know how to voice my total and utter disapproval of these plans and i implore that they be stopped for the sake of generations to come and for those who care deeply for the land as well.

In deep frustration but hoping my tiny voice will be heard,
Pia Pagotto

pia pagotto
****
VIC 3156

Painter, Gillian – Thursday, 11 August 2022 – 14:41:35

Subject	I no future fracking plans in NT
From	Gillian Painter
Sent	8/11/2022 2:41:35 PM

Northern Territory Govt, Environmental Dept and Water Resources.
DO NOT allow any further fracking inNT. It destroys the water in our artesian basins and our First Australians have beenby passed in hOrigin plans. I oppose any fracking as I had experience some years ago with a country town having theGovt instal a water purifying plant for the town because fracking had polluted the previous supply.

gillian painter
****
ACT 2614

Palacios, Rafael – Friday, 12 August 2022 – 20:58:28

Subject	Stop Origins franking Plans
From	Rafael Palacios
Sent	8/12/2022 8:58:28 PM

Northern Territory Department of Environment, Parks and water security
To whom it may concern,
I am writing to request your office don't allow Origin's plans to frack in the Northern Territory. It will damage the water table and pollute it for future generations
Kind regards
Rafael Palacios

Rafael Palacios
****
NSW 2540

Palladine, Michelle – Sunday, 14 August 2022 – 07:27:38

Subject	twelve new fracking drills
From	Michelle Palladine Palladine
Sent	8/14/2022 7:27:38 AM

Fracking destroys the environment and eliminates the wildlife surrounding the fracked areas. Don't do this. Lead the way on clean energy instead.

MIchelle Palladine Palladine
****
SA 5434

Palma, Phyllis – Sunday, 14 August 2022 – 14:29:47

Subject	Stop Origins Fracking plans
From	Phyllis Di Palma
Sent	8/14/2022 2:29:47 PM

I am a professional Australian born citizen, mother of two daughters and feel compelled to write this submission to plead to Government authorities and decision makers to have the integrity to stop fracking.

The science is clear and proven that fracking has catastrophic impacts on the environment including water supplies, carbon emissions, the health of land, flora, fauna, wildlife and people.

In the midst of climate change and world leaders (IPPC) working together to reduce emissions for the future of our existence, it is ludicrous that fracking and its proven track record of carbon emissions is even a consideration.

It's blatantly clear the only positive effects are financial gains to greedy mining magnates.

Enough us enough.

Please show the integrity to stop fracking.

Regards
Phyllis Di Palma

Phyllis Di Palma
****
VIC 3185

Palmer, Kirsten – Friday, 12 August 2022 – 15:01:35

Subject	Stop NT Fracking
From	Kirsten Palmer
Sent	8/12/2022 3:01:35 PM

Northern Territory Dept of Environment,
Dear Sir/Madam,
I respectfully ask that you reject the proposal from Origin to open new fracking drills. There is a large body of evidence now against this type of practice and I understand that the Traditional Owners of this land have been definite in their rejection of this practice. We must do what is right for the land, its people and the future.
Yours in trust,
Dr Kirsten Palmer

Kirsten Palmer
****
NSW 2026

Palmer, Susan – Sunday, 14 August 2022 – 15:51:48

Subject	Stop Origin's fracking plans
From	Susan Palmer
Sent	8/14/2022 3:51:48 PM

In the name of all that shows wisdom and courage to do what is RIGHT and caring of our fragile and already damaged Earth.... PLEASE STOP FRACKING. Look into the children's 's eyes and weep when you know what their future will be if these powerful, greedy and amoral companies continue as though they are and plan to reek ever more devastation to our earthly home.
Susan

Susan Palmer
****
VIC 3918

Pandey, Kus – Saturday, 13 August 2022 – 15:50:01

Subject	Prevent Origin from fracking the NT
From	Kus Pandey
Sent	8/13/2022 3:50:01 PM

To: Department of Environment, Parks and Water Security

I'm writing as a concerned Australian citizen to provide my support to the Indigenous owners of NT country who have opposed any further fracking within the NT. I share their concerns about allowing fracking - which I oppose anywhere across Australia.

The Department has the capability, and indeed, is charged with the responsibility of protecting the natural assets of the NT. The effect of fracking on water resources and on the land itself has been clearly documented. There is no benefit to the Australian people and there are many costs to climate, water resources and cultural heritage if it were to proceed, so why would you allow it?

Gas is an obsolete, indefensible energy supply. We should not be supporting the creation of new gas fields when so many other forms of renewable energy are now available for development.

We have already lost too much for too little.

Please reject Origin's EMP.

Kind regards
Kus

Kus Pandey
****
ACT 2602

Panikian, Sonia – Sunday, 14 August 2022 – 19:07:27

Subject	Origin's fracking plans must be stopped
From	Sonia Panikian
Sent	8/14/2022 7:07:27 PM

I write to implore you to reject the plans to continue and expand fracking in the NT. All the scientific indicators are clear that we must decarbonise the economy and move to renewable clean energy for the survival of all. Please don't hesitate in safeguarding the future of our children by wholehearted rejecting the fracking plans.

Sonia Panikian
****
NSW 2087

Papallo, Cathie – Friday, 12 August 2022 – 19:46:25

Subject	Stop fracking.
From	Cathie Papallo
Sent	8/12/2022 7:46:25 PM

The water needs to be protected. Stop fracking.

Cathie Papallo
****
NSW 2072

Parfitt, Bradley – Sunday, 14 August 2022 – 13:46:06

Subject	Stop Origins Fracking Plans
From	Bradley Parfitt
Sent	8/14/2022 1:46:06 PM

The Northern Territory Environment, Parks and Water Department

Regarding intended fracking on First Nation Land

My name is Brad. I was involved in Emergency Response on Groote Eyslandt , Gove and ERA Ranger. This included medical, ambulance and rescue

Respectfully, ERA Ranger stands as a harsh reminder of what we shouldn't do on anyones land, let alone the Hyper complex and critical relationship existing between our First Nations People and their Land. From my limited knowledge, I do understand how important it is for our First Nation People to have access to unspoiled land.

A reasonable risk assessment as to if the land could be spoilt results in a resounding No Go assessment

Let's not risk this. All anyone wants is a little hope and respect

Thank you

Brad Parfitt

Bradley Parfitt
****
QLD 4078

Parker, Julie – Sunday, 14 August 2022 – 19:59:42

Subject	Stop Origin'm os fracking plans
From	Julie Parker
Sent	8/14/2022 7:59:42 PM

Stopping enviromentally destructive practises is so long overdue. Do not allow any further fracking to take place.

Julie Parker
****
VIC 3825

Parker, Nancy – Sunday, 14 August 2022 – 14:37:45

Subject	Stop Origin's Terrible fracking plans
From	Nancy Parker
Sent	8/14/2022 2:37:45 PM

Dear NT Government,
The last thing this country needs is more destruction of our country, water resources and our climate by fracking!
A part of my heritage is traditional Aboriginal, from WA.
Please do not allow this terrible destruction of our beautiful country. We have a responsibility to maintain it and care for it for future generations.
Fracking is a harmful and unnecessary practice. Please take responsibility for land and country.
Sincerely,
Nancy Parker

Nancy Parker
****
NSW 2226

Parkes, David – Sunday, 14 August 2022 – 18:38:15

Subject	stop fracking
From	David Parkes
Sent	8/14/2022 6:38:15 PM

It is rediculas that in this day with massive climate damage that you want to destroy by fracking
David Parkes
8 Mexican Court
Wondunna 4655

David Parkes
****
QLD 4655

Parkes, Jane – Saturday, 13 August 2022 – 14:52:21

Subject	Stop fracking stop origin
From	Jane Parkes
Sent	8/13/2022 2:52:21 PM

Northern Territory's Department Environment Parks and Water Security
To whom it may concern
I am age 65 and spent many years living and working in In the NT
It is very disheartening to see that origin has begun work on infrastructure in order to frack for gas at the amungee mungee pastoral station
please consider the devastation that fracking is known to cause especially to water, and to do this in such an isolated area where lyes some of the most precious country that Australia has.The environmental impact has not been fully assessed and trying to restore the harm such drilling will have long term is not worth the risk
Please show some care for land and support our indigenous peoples, stop the fracking.
Yours sincerely
Jane Parkes

Jane Parkes
****
NSW 2011

Parks, Lyn – Saturday, 13 August 2022 – 13:53:14

Subject	Stop Origin's fracking plans
From	Lyn Parks
Sent	8/13/2022 1:53:14 PM

Northern Territory Department of Environment,Parks and water security.

I am writing to you not to approve any of Origin's fracking plans.
Fracking will destroy country, water and the environment.
It's time for government to take a leadership stance to reduce climate change. This can't happen by supporting gas.

Thanks
Lyn Parks.

lyn Parks
****
NSW 2287

Parris, Keith – Sunday, 14 August 2022 – 11:35:19

Subject	No more fracking
From	Keith Parris
Sent	8/14/2022 11:35:19 AM

Please stop destroying our country to facilitate the failure of other countries to create their own energy supply This action only creates 2 destroyed countries and delays the establishment if an actual solution.

Keith Parris
****
VIC 3204

Parrish, Ange – Friday, 12 August 2022 – 17:00:21

Subject	Origins Fracking Plans
From	Ange Parrish
Sent	8/12/2022 5:00:21 PM

Dear NT Gov. Re Fracking. Be brave be bold do something entirely memorable for country the future do not give apprival to any fracking in the NT. Cultural owners as well as surprisingly to me station holders also dont want this. Theyre actually working alongside Cultural mob to try and halt this process from ever occuring. Both recognise the finality of damage which feacking will wreak on the NT. Be brave be bold make the NT open for longterm business which recognises the importance of Indigenous Knowledges and centres the environmental ever value of the NT.
Again be bold be brave make an easy drcision to care for and respect country for now and the future.

ange parrish
****
NSW 2447

Parsons, Bernard – Thursday, 11 August 2022 – 19:50:48

Subject	Reject Origin' Fracking Plans
From	Bernard Parsons
Sent	8/11/2022 7:50:48 PM

Northern Territory Parks and Environment

I am corresponding in relation to Origin Energy plans to commence fracking in the NT despite the objections of First Nations people.

O urge the NT administration and Government to oppose and prevent the Fracking from taking place.
Yours sincerely
Bernard Parsons

Bernard Parsons
****
VIC 3128

Passmore, David – Friday, 12 August 2022 – 10:09:01

Subject	Stop Origins Fracking Plans
From	David Passmore
Sent	8/12/2022 10:09:01 AM

Scientists have proven again and again the harm done by fracking, we can no longer even safely drink rain water thanks to pollution, to sell out country like this is a disgrace, do not do it.

David Passmore
****
WA 6169

Paterson, Janine – Friday, 12 August 2022 – 14:21:54

Subject	Cease Origin's fracking drills in the N
From	Janine Paterson
Sent	8/12/2022 2:21:54 PM

The 12 new fracking drills in the NT not only threaten Indigenous culture but also our water and climate.

Janine Paterson
****
QLD 4873

Paterson, Robert – Friday, 12 August 2022 – 14:19:48

Subject	Stop Origin Energy's fracking plans
From	Robert Paterson
Sent	8/12/2022 2:19:48 PM

Northern Territory Department of Environmental,Parks & Water Security.

Dear Sir/ Madam,

I am writing to express my concerns about Origin Energy's plans for fracking in the Beetaloo basin.
As a professional with a strong science background I am aware of the potentially disastrous consequences of fracking for gas in the Beetaloo basin.
There are unacceptable risks to the water security of this region from fracking.
Contamination risks cannot be adequately controlled.
The climate risks make this incompatable with Australia's emissions reduction commitments.
In addition this process has advanced without consent of traditional owners of the proposed land.
I cannot see how on environmental or any other grounds Origin Energy's proposed fracking can be given government approval to occur in the Beetaloo basin.

Yours sincerely.
Dr Robert R Paterson.
BMBS FRACGP
Email **********

Robert Paterson
****
SA 5159

Patterson, Maria – Saturday, 13 August 2022 – 07:52:31

Subject	Stop FRACKING NOW!!!!!!
From	Maria Patterson
Sent	8/13/2022 7:52:31 AM

To the Northern Territory Government Department of Environment and Natural Resources.

I am beyond worried and appalled that you are allowing Origin and others to commence and continue fracking.

I am horrified that you as a government ignore the cries of your people especially the traditional owners of the land you are allowing to be violated.

In these times of extreme weather events which science links to climate change as a result of human reliance on fossil fuels it is time to urgently reassess and stop what we are doing to continue this dependence.

If we continue to waste time and money in destroying our land in the pursuit of more gas I am completely convinced that we are hurtling towards irreversible and dire consequences.

I fear for Earth and all on it.

I fear for my and all peoples grandchildren.

Please reconsider.

Please stop.

maria patterson
****
SA 5341

Pattinson, Jillian – Saturday, 13 August 2022 – 09:49:17

Subject	NT Fracking
From	Jillian Pattinson
Sent	8/13/2022 9:49:17 AM

I am writing today to ask that you do all in your power to prevent fracking going ahead in the NT.
Fracking has been shown in many places around the world to have enormously negative impacts on the locality.
On top of that, it adds to the emission of greenhouse gasses worsening the overall effects of climate change.
Add to that the detrimental effect which it has on the precious water supplies. Our world is already having major problems with the water cycle. we cannot afford to take chances with what little we have left in this dry continent.
Origin energy is one of the companies which avoids paying taxes here. What right have they to mine the countries resources and deface country despite Traditional Owners objections?
What is their record in maintaining the standards set when they are given permission to go ahead with these developments? With cleaning up their mess when they've finished?
Whatever the risks involved in this project, they are too great to allow it to go ahead. Why would you not put a solar farm or wind turbines on the land instead? To access a source of energy that will not run out in a few years and would not have the associated risks?
I sincerely request that you take note of the Traditional Owners and others objecting to this plan. Allowing this to go ahead will benefit but a few. To deny the opportunity would benefit many.

jillian pattinson
****
NSW 2641

Pauls, Virgil – Saturday, 13 August 2022 – 14:46:13

Subject	Stop Origin's reckless fracking plans!
From	Virgil Pauls
Sent	8/13/2022 2:46:13 PM

Origin has launched plans for twelve new fracking drills in the Northern Territory.1

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system. I am asking the Department to reject Origin's EMP.

Virgil Pauls
****
TAS 7330

Pawsey, Ric – Sunday, 14 August 2022 – 07:27:40

Subject	Please stop the fracking plans of Origin Energy
From	Ric Pawsey
Sent	8/14/2022 7:27:40 AM

To the Northern Territory Department of Environment.
I write to submit objection to the Origin Energy proposal for gas fracking near Daly Waters.
Gas fracking is an activity that accrues many more risks than any potential benefits - particularly to water resources and agricultural production.
Please prohibit these plans by Origin Energy.
Sincerely,
Ric Pawsey

ric pawsey
****
VIC 3129

Payne, Wendy – Saturday, 13 August 2022 – 14:00:02

Subject	stop fracking now
From	Wendy Payne
Sent	8/13/2022 2:00:02 PM

To
Northern Territory Parks and Water.
Stop all fracking in the N.T. before we destroy the environment for ever. Think about our children's future not just a fast buck.

Wendy Payne
****
WA 6530

Pearce, Geof – Sunday, 14 August 2022 – 14:39:29

Subject	Stop Origins fracking
From	Geof Pearce
Sent	8/14/2022 2:39:29 PM

For thousands of years First Nations people managed our wonderful country without destruction of the landscape we all love and enjoy, without polluting water courses or destroying culturally sensitive sites. Mining has put making big money above everything else and Government's in this country have aided and abetted this. I hate this.
I have seen in recent weeks the damage done to the landscape when I stayed at Cape Crawford and at Jabiru. Restoration of mining sites is clearly not a priority for mining corporations.
It must cease. Listen to First Nations peoples.

Geof Pearce
****
VIC 3190

Pearse, Jay – Sunday, 14 August 2022 – 14:55:33

Subject	Stop Origins plans to frack in the Northern Territory
From	Jay Pearse
Sent	8/14/2022 2:55:33 PM

To the Northern Territory Department of water and environment. There is already a problem with pure water in your area. How can you even think about allowing fracking to take place in this day and age. Please be responsible and act sustainably and look to the future.

Jay Pearse
****
NSW 2481

Pearson, Merry – Friday, 12 August 2022 – 10:48:55

Subject	NO MORE FRACKING
From	Merry Pearson
Sent	8/12/2022 10:48:55 AM

I may be an older Australian, but I still want there to be a healthy environment to support all life on this planet after I fall off the perch. Please support the Northern Territory's Traditional Owners--along with all of life in Australia--and reject Origin's destructive fracking plans.

Merry Pearson
****
NSW 2539

Peck, Nancy – Saturday, 13 August 2022 – 09:51:08

Subject	Caring for country
From	Nancy Peck
Sent	8/13/2022 9:51:08 AM

I'm a long term customer -but this land we call Australia is vulnerable - each of us has to act - so I'll watch to see the outcome of this before changing my provider. Please act for the common good Nancy Peck - 6/100 Rowena Pde Richmond Vic.

Nancy Peck
****
VIC 3121

Peet, Sylvia – Sunday, 14 August 2022 – 14:57:27

Subject	PLEASE put a stop to Origin's reckless fracking plans now
From	Sylvia Van Der Peet
Sent	8/14/2022 2:57:27 PM

To the Northern Territory Department of Environment, Parks and Water Security,
I am a retired Park Planner and Threatened Species Group Coordinator living in Victoria. I can't believe that you are going to allow Origin to open twelve new fracking drills in the Northern Territory. What an incredible waste of precious water, I can't see how this can be justified at this time with all we know about climate change and the impacts it is already having on our environment. The Traditional Owners don't want this new threat to their cultural heritage and in this day and age I think it is shameful that it is being allowed to proceed.

Sylvia van der Peet
****
VIC 3233

Pell, Cathryn – Friday, 12 August 2022 – 16:39:21

Subject	Stop Origin's Fracking plans NOW
From	Cathryn Pell
Sent	8/12/2022 4:39:21 PM

At such a disturbing time in history, why on earth would any government allow Fracking to begin or indeed continue.
The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Origin should not be allowed to continue such destructive practices.

STOP all fracking and burning of fossil fuels and let’s put our energy into clean sustainable ways of producing energy.

Cathryn Pell
****
NSW 2576

Pelling, Richard – Friday, 12 August 2022 – 15:14:40

Subject	Stop Origins Fracking Plans
From	Richard Pelling
Sent	8/12/2022 3:14:40 PM

Once again Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent

Richard Pelling
****
VIC 3195

Pemberton, Michael – Saturday, 13 August 2022 – 06:27:47

Subject	Origin fracking
From	Michael Pemberton
Sent	8/13/2022 6:27:47 AM

I have serious concerns about Origins fracking program for the NT. There are climate change issues related to burning natural gas. Fracking has major implications for ground water contamination and in some cases surface water as well. It is a crude method of resource extraction shattering or breaking up the stratigraphy to release the gas. This program should not go ahead.

Yours sincerely

Michael Pemberton

Michael Pemberton
****
NSW 2447

Perdrisat, Marlikka – Saturday, 13 August 2022 – 21:59:52

Subject	Stop Origin.
From	Marlikka Perdrisat
Sent	8/13/2022 9:59:52 PM

When will you start to represent how the new majority of Australia feels regarding climate change, and in addition First Nations rights.

Marlikka Perdrisat
****
WA 6725

Perera, Stuart – Friday, 12 August 2022 – 20:06:25

Subject	Please reject Origin's fracking plans
From	Stuart Perera
Sent	8/12/2022 8:06:25 PM

Dear Northern Territory Dept of Environment, Parks and Wildlife.

This does not make both environmental sense or economic sense, and the money raised only serves to corrupt our politics and destroy our community.

https://michaelwest.com.au/fracking-madness-beetaloo-basin-gas-subsidies/

https://michaelwest.com.au/fracking-hell-gas-grants-to-fight-farmers-muzzle-critics/

Please reject the fracking plans from Origin.
Your good work on behalf of all Australians is appreciated,
Stuart Perera

Stuart Perera
****
VIC 3173

Perez, Mauricio – Sunday, 14 August 2022 – 13:59:56

Subject	Stop fracking
From	Mauricio Perez
Sent	8/14/2022 1:59:56 PM

Don’t do this it’s not needed

Mauricio Perez
****
NSW 2090

Perham, Graham – Sunday, 14 August 2022 – 14:17:16

Subject	Stop Origin's Fracking Plans
From	Graham Perham
Sent	8/14/2022 2:17:16 PM

I was horrified to read that Origin is proposing twelve new fracking wells with complete disregard to the cultural heritage of the Taditional Owners, the detrimental effect on the waterways and the furthering of climate change.
As well as disregarding the serious concerns of the communities who are opposed to these wells, Origin is bypassing proper process in order to go ahead with its plans.
If the wells do go ahead it will set a precedent for further fracking and thus even further damage.
I earnestly implore the Northern Territory Government to not approve these wells.
Graham Perham

Graham perham
****
VIC 3608

Peris, Les – Sunday, 14 August 2022 – 10:39:20

Subject	Stop Origins fracking
From	Les Peris
Sent	8/14/2022 10:39:20 AM

Origin is a company hell bent on profits before anything else including its own customers! Not surprised that the board would put the Environment last! Stop Origin at all cost.

Les Peris
****
NSW 2126

Perkin, Lyn – Sunday, 14 August 2022 – 17:27:18

Subject	Stop Origin's plan for fracking in the NT
From	Lyn Perkin
Sent	8/14/2022 5:27:18 PM

We strongly do not support Origin's plans to open twelve new fracking drills in the Northern Territory. It is well documented that fracking has such a negative and disastrous effect on country, water, cultural heritage, and our climate. This effects all Australians!
Traditional Owners have been intensely defending their country against Origin for years and they need their voice to be heard now!!
Lyn Perkin and Sonia Williams

Lyn Perkin
****
NSW 2261

Perrot, Moana – Thursday, 11 August 2022 – 15:44:13

Subject	No Fracking in NT
From	Moana Perrot
Sent	8/11/2022 3:44:13 PM

There is a large body of artesian water that stretches from the northern coast of Australia into the southern states.

Fracking will pollute this body of water which will have negative effects on the soil, flora (including crops), and fauna (including humans) over a large part of our beautiful continent.

People before profits.

Moana Perrot
****
NSW 2479

Perry, Jacqueline – Thursday, 11 August 2022 – 15:32:57

Subject	Stop fracking
From	Jacqueline Perry
Sent	8/11/2022 3:32:57 PM

Our indigenous peoples have done an incredible job of looking after our country for thousands of years. In less than 300, us white fellas have selfishly and stupidly decided that land is ours to do whatever we want. Well, we know all too well now, that there are dire consequences to our arrogance.
So, my question is, why are the NT and federal governments allowing an overseas company destroy this land further, whilst knowing the impact that destruction will have? Are you, the governments of Australia, so corrupt that you place your mates' wealth above the newer and future generations lives and well-being? Even when this includes YOUR own children and descendants?

If YOU allow this fracking by origin to go ahead, then the answer to my question is an unmistakable and resounding YES, YOU ARE THIS CORRUPT. And YOUR name will be written into history that this is what YOU wanted.

It's not too late. Please don't do this.

Jacqueline Perry
****
VIC 3134

Perry, Marlene – Thursday, 11 August 2022 – 17:02:11

Subject	Fracking in the NT=Adding to climate crisis.
From	Marlene Perry
Sent	8/11/2022 5:02:11 PM

Sir/madam,

I'm a constituent of Victoria, a retired nurse, but still a homemaker. And as a person who is involved with the save the MDBP. My husband has submitted concerns over water. Plus we are concerned that no government party is governing for our future well enough. I have children and grandchildren across Australia, and I'm seeing that money making is more important than our earth! and their future! Origin wants it's gravy boat/train too continue.

Mining seems to have precedence because of something other than the long term impacts. No project involving fracking can seriously promise to have no impact on the quality of water, air, and ecological systems. Let alone it's need for water in production. Then there's the waste! Where does it go? It's well known to be toxic. I question the rush to approve?

Surely there is sufficient evidence available from other countries and areas within Australia to tell you that this will damage the face of the land, water and add to the climate emergency.

The fast tracking of this project should ring alarm bells! It means that the company does not consider the impact on the land, it's people and/ the environment. Never have I seen a company do what it says! The approval of a project without correct licenses means that the company is putting money in to damage the surfaces, waters and ecological systems and the approving government is allowing this also! Fracking does damage that cannot be reversed. The approving politicians are not considering the lack of respect it demonstrates, it's support for autocracy and preparedness to ignore the climate crisis, perpetuating of ecological destruction in our environment. Let ignoring the traditional owners!

Any project that is rushed through is allowing room for errors!
STOP FRACKING. NOTHING can reverse the damage! NOTHING can be earnt without some unwanted effects from this! This reeks of GREED! at the expense of constituents! Why not listen to your people, especially the traditional owners? Every decision you make has wanted and unwanted effects, whether considered or overlooked!

I'm asking you to show respect to traditional owners. Stop delaying the correction required to address our climates crisis. WAIT for all processes to be followed to the letter, and licences if your constituents but leave no traditional owners voice unheard!

Remember whose benefitting. If it's not our earth, it's people and cleaning up our environment! then don't!! The first and foremost consideration or dare I say the only consideration..

Thanks in anticipation,
Marlene Perry.

Marlene Perry
****
VIC 3500

Pescud, Graeme – Saturday, 13 August 2022 – 19:51:12

Subject	Ignorance
From	Graeme Pescud
Sent	8/13/2022 7:51:12 PM

We voted for climate and the planet. About time you listened

Graeme Pescud
****
VIC 3264

Petel, Humphrey – Saturday, 13 August 2022 – 14:31:59

Subject	Stop Origin's fracking plans
From	Humphrey Van Polanen Petel
Sent	8/13/2022 2:31:59 PM

I should not have to write to the NT Government about this, it is obvious that fracking in the NT is disastrous - please stop Origin's plans.

Humphrey van Polanen Petel
****
VIC 3196

Peter, John – Saturday, 13 August 2022 – 10:44:26

Subject	Stop Fracking
From	John Peter
Sent	8/13/2022 10:44:26 AM

Absurd to frack while trying to overcome climate disasters. Who wins? Big gas companies on short term, not the people or the earth

John Fisher

John Peter
****
NSW 2021

Peterson, Meg – Saturday, 13 August 2022 – 15:25:09

Subject	NO to Origins fracking plans!
From	Meg Peterson
Sent	8/13/2022 3:25:09 PM

To the Northern Territory Government:

Dear Sirs, My name is Alan Peterson from Bundeena in NSW.
I write to oppose Origins plan to develop fracking! If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
This would be disastrous for all of us.
This would seriously affect our traditional owners very badly.
With this letter I am requesting The NT Government to absolutely stop the fracking plans of Origin Energy.

From Alan Peterson.

meg peterson
****
NSW 2230

Peterson, Sonya – Thursday, 11 August 2022 – 15:31:32

Subject	Please STOP Origin's Fracking!
From	Sonya Peterson
Sent	8/11/2022 3:31:32 PM

I am writing as a person deeply concerned about Fracking.
I am fully supporting the Traditional owners in their call to Stop Origin from fracking plans.

Fracking was once illegal in NT.

The environmental damage is widely accepted by world leading scientists. See link.

https://www.ehn.org/amp/health-impacts-of-fracking-*********

Fracking is devastating to climate country and the environment.

Close to 600 000 tonnes of greenhouse gas emissions will be emitted.
Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal.

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA).

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Please, please stop the Fracking in NT.

Sincerely

Sonya Peterson

sonya peterson
****
WA 6157

Petrovansky, Alex – Thursday, 11 August 2022 – 18:00:51

Subject	Stop Origins fracking plan
From	Alex Petrovansky
Sent	8/11/2022 6:00:51 PM

Att Northern Territory Dept of Environment, Parks and Water Security. Please stop fracking and persuade Origin to invest in renewables instead. Long term it will be better for this country, without damage to water courses, country and damage to people on the land.

Alex Petrovansky
****
QLD 4053

Petrovic, Katja – Sunday, 14 August 2022 – 09:31:45

Subject	No to Origin fracking
From	Katja Petrovic
Sent	8/14/2022 9:31:45 AM

Hi, my name is Kat and I'm a regular Aussie hoping for the preservation of the future of the human species on this planet. I'm writing in regards to the plans to open twelve new fracking drills in the Northern Territory. Please do not set this precent that would welcome more destructing fracking practices. We're in a climate emergency for goodness' sake.

I'm asking the Department to do the right thing and stand up to fossil fuel companies - reject Origin's fracking proposal. Please stop selling out our country and our future to dirty corporations for a quick buck.

Regards,

-Katja

Katja Petrovic
****
VIC 3166

Pettit, Robyn – Friday, 12 August 2022 – 14:15:01

Subject	Please stop Origin's fracking plans
From	Robyn Pettit
Sent	8/12/2022 2:15:01 PM

Dear NT Government,

I am a concerned and active citizen of Willoughby in NSW.

I am very concerned and angry to hear that Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

As you know the local Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would be paving the way for Origin to frack and destroy country, water, and our climate! It would also set a dangerous precedent for other fracking corporations to do exactly the same.

Origin needs to come clean and go green!! Please disallow the fracking drills!! Thanks!

Regards Robyn Pettit
****

robyn Pettit
****
NSW 2068

Petzke, Ingo – Saturday, 13 August 2022 – 16:18:36

Subject	Origin's reckless fracking
From	Ingo Petzke
Sent	8/13/2022 4:18:36 PM

Follow proper regulatory process!!!!

Ingo Petzke
****
QLD 4226

Pfenninger, Ernst – Saturday, 13 August 2022 – 16:12:27

Subject	no fracking
From	Ernst Pfenninger
Sent	8/13/2022 4:12:27 PM

ernst pfenninger leichhardt
to whom it may concern
please do not allow fracking to happen who gives a absolute
guaranty it will not pollute ground water
we should respect the traditional landowners views as well
in some countries around around the world has fracking stopped. why is that the case !?
regards ernst

ernst pfenninger
****
NSW 2040

Pham, Margaret – Friday, 12 August 2022 – 21:10:15

Subject	Stop fracking and accelerating climate change!
From	Margaret Pham
Sent	8/12/2022 9:10:15 PM

Stop fracking and destroying indigenous land without the assent of Aboriginal peoples. They don't want fracking on their land! Stop ignoring indigenous peoples' autonomy and voice.

Margaret Pham
****
NSW 2166

Philippa, Joseph – Friday, 12 August 2022 – 16:58:27

Subject	Stop Origin's fracking plans
From	Joseph Philippa
Sent	8/12/2022 4:58:27 PM

Northern Territory Department of Environment, Parks and Water
Security
Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Joseph Philippa
****
NSW 2007

Phillipps, Matthew – Sunday, 14 August 2022 – 17:53:22

Subject	Please halt Origin Energy's fracking plans
From	Matthew Phillipps
Sent	8/14/2022 5:53:22 PM

Dear NT Government,

my name is Matthew Phillipps, I am a resident of the ACT, a teacher, and a citizen concerned for the rights of Traditional Owners and the impacts of climate change.

I am writing this submission about Origin Energy's Environmental Management Plan submission to open twelve new exploration fracking wells at Amungee Mungee pastoral station, 50 km east of Daly Waters, in the Northern Territory.

Origin Energy have not consulted with all Traditional Owners, the Jingili people. Many TOs do not want their land to be fracked. They are concerned about the impact on the land, the water, and the climate. They want Origin Energy to leave the land how it is (Daren Farrell on SBS New3s, 2019).

Water is a precious resource, and the sustainability of water resources in a changing climate is paramount to ensuring that TOs, farmers and even larger communities in Katherine can maintain and improve upon their lifestyles. The plan to remove waste water by truck is fraught with multiple risks - and comes with the additional energy and waste CO2 from transportation.

The climate impacts of these exploration cannot be overstated. We cannot ignore that gas taken from these wells will be sold, and eventually burnt. We cannot ignore "Scope 3" emissions - as the greenhouse gases emitted have a climate impact no matter who burns them. The only way to stop the climate impact is to leave the gas in the ground permanently.

Fugitive emissions will also be extensive and are more difficult to accurately measure and account for. These emission are largely methane - which has a greater climate impact than CO2.

There is no adequate justification for proceeding with these wells. Please reject Origin Energy's EMP plan for the Amungee Mungee pastoral station.

Thanks
Matthew

Matthew Phillipps
****
ACT 2602

Phillips, Janell – Thursday, 11 August 2022 – 15:04:50

Subject	Origins fracking plans must be stopped.
From	Janell Phillips
Sent	8/11/2022 3:04:50 PM

To the Northern Territory Department of Environment, Parks and Water Security.
It has come to my notice that Origin have already set up equipment to drill and frack for gas in the Northern Territory despite it being against the wishes of the Traditional Owners that it not occur.
I believe that the once established bans on drilling have only been lifted on a recommendation from a scientific inquiry that certain requirements are adhered to. I do not see any evidence of adherence to scientific guidelines. We know that fracking detrimentally impacts the climate and will put the limit agreed to in Paris above safely levels. We also know that Aboriginal Communities will be adversely affected and they have stipulated that it not occur ..also the amount and quality of the water will be forever damaged. Huge amounts of water would be used to crack the drills. I would like to know why Origin are allowed to proceed when all these conditions are not being adhered to please.
Please stop them from any fracking in the territory. I have travelled in this area and am aware of the vulnerability of this country, it's flora and fauna.
Yours sincerely
Janell Phillips.

Janell Phillips
****
TAS 7250

Phillips, Joe – Sunday, 14 August 2022 – 09:19:20

Subject	No new Fracking by Origin
From	Joe Phillips
Sent	8/14/2022 9:19:20 AM

To: NT Dept. of Environment, Parks & Water Security,

It is inconceivable to myself and many others why a Government body such as yours should even consider seriously proposals to permit fracking. It is well known what the risks and issues are that occur when fracking for gas is permitted.

You have only to look at the article in The New Yorker (Oct *********) to see what damage can be wrought in a community .

It would be even worse to carry out similar works in areas of the NT that are much more fragile ecologically and which have cultural meaning to First Nations People.

Further, the project proposed requires the use of huge amounts of water and this is criminal in a land where water is scarce and subject to severe droughts.

Another serious matter concerns the "management" of wastewater from the project. Whether this is "managed" in the NT or passed on the some other State or Territory is a great concern.

Please do not agree to allowing Origin to carry out it's fracking plans.

Thank you for your consideration .

Regards,
Joe Phillips

Joe Phillips
****
NSW 2025

Phillips, Susan – Thursday, 11 August 2022 – 23:17:29

Subject	Origin's fracking destruction
From	Susan Phillips
Sent	8/11/2022 11:17:29 PM

To: The Northern Territory Dept of Environment Parks and Water Security
I wish to make a submission opposing Origin's plans to open 12 new fracking drills in the NT
This is unconscionable given current global climate catastrophes
I utterly support Traditional Owners in their defence of country
Please do not approve these fracking proposals for the sake of our planet

Susan Phillips
****
NSW 2039

Philpot, Robert – Saturday, 13 August 2022 – 07:20:05

Subject	No more fracking in the Northern Territory.
From	Robert Philpot
Sent	8/13/2022 7:20:05 AM

The Northern Territory Department of the Environment, Water, and Cutural Heritage, Listen to the voices of the Indigenous people and voters in general and do what you were elected for: to care for country and make sure there is no more fracking on these undisturbed lands. Keep the N.T. a place that Australians will be proud to see in the future

Robert Philpot
****
QLD 4552

Philpot, Sj – Sunday, 14 August 2022 – 13:41:01

Subject	Fracking NT
From	Sj Philpot
Sent	8/14/2022 1:41:01 PM

NT Dept of Environment, Parks and Water Security
cc Minister Moss

My professional background includes consulting on community development, water and sanitation, natural resource management and economics. I currently live in W.A .

I have links with Indigenous academics at UWA and Curtin and have been notified of the new application by Origin for fracking exploration at Amungee Mungee station. I have listened and then researched what the implications are for this application being made via an EMP.
My considered opinion is that this plan should not proceed.

I am concerned that the 12 "exploration" wells will, as always, produce contaminated waste water. I can find nothing to explain a plan to safely (a) remove the contaminated water and (b) ensure the local communities have access to safe , uncontaminated water. It appears the wastewater is to go interstate! Where? How will it be utilised? THIS IS DANGEROUS. Water safety and security is critical for ALL of us.

Regarding GHG emissions: Origin appear to be trying to use the lie that the emissions will be scope 3 - ie not our problem. These are in effect Scope 1 emissions if the exploration wells are really just exploratory. However, I read that the gas is to be sold into the international market ie production by any other name. This is unacceptable as it is an attempt to bypass the weak controls we have Federally and in response to the Pepper Enquiry whose recommendations (all 135 of which) were to be implemented.

We are currently starting to discuss "VOICE" to Parliament. My personal view is this is long overdue. This ORIGIN proposal is made against the wishes of the NT indigenous communities involved according to senior staff at UWA. I have no personal data to support this but I would suggest that the proposal is against the original intent of the Pepper Enquiry.

In summary: I would ask that the Govt refuse this application as this is an underhand attempt to bypass laws to produce & sell gas for an indefinite time and continue contamination of water reservoirs against the obvious needs of all communities. Fracking is not something we should be supporting.

sj philpot
****
WA 6073

Philpott, John – Friday, 12 August 2022 – 19:09:13

Subject	Please No Fracking Way!
From	John Philpott
Sent	8/12/2022 7:09:13 PM

To Northern Territory Department of Environment.
Please in the name of humanity say no to origin's fracking as it is a big polluter and we are in a climate emergency, we need to fastrack to 100% renewables now before it is too late.

john philpott
****
NSW 2034

Pickering, Peter – Sunday, 14 August 2022 – 16:22:06

Subject	Stop Origin's Fracking Plans
From	Peter Pickering
Sent	8/14/2022 4:22:06 PM

Northern Territory Department of Water

Fracking is dumb.

How much evidence do we need to recognise this.

Would you trust the energy companies or the First Nations peoples?

Regards

Peter Pickering

Peter Pickering
****
QLD 4370

Pieraccini, Laura – Friday, 12 August 2022 – 17:26:35

Subject	No more Fracking in the NT
From	Laura Pieraccini
Sent	8/12/2022 5:26:35 PM

I am the grandmother off four young grandchildren and I want to make sure they have a future in a sae and healthy environment.
It is just unbelievable that governments like yours are still approving new mines and more fracking in the present climate conditions.
Economics have blinded the decision makers and common sense and science are for sale! It is a great disappointment that the message sent by the elections is being totally ignored.
Not to mention the disregard with which the Traditional Owners are being treated.
We have an energy crisis, that is true. But we cannot continue this destructive activities that are turning Australia into a desolate landscape, causing the extintion of more animals and plant species than anywhere else in the world. Maybe barred Brazil maybe. But we should be better that that.
Pleas please stop approving more Fracking for the sake of the grandchildren of the world and your own.

Laura Pieraccini
****
SA 5063

Piggott, Georgia – Sunday, 14 August 2022 – 20:05:16

Subject	No to Fracking
From	Georgia Piggott
Sent	8/14/2022 8:05:16 PM

Hello Origin company email reader,
My name is Georgia, writing from NSW but I will say I am shocked and horrified to learn that fracking is an ongoing endeavour in NT. I write to ask you to reconsider for the sake of the Indigenous owners who should have full access to their own land. I would also say I reject this idea because of the proven negative environmental impacts and suggest switching to renewable before the market recognises the positives of clean energy and these changes leave Origin energy bankrupt.

I hope the many submissions and outrage give you the motivation to reconsider this horrible mistake
Thank you for your time
Sincerely, a concerned party

Georgia Piggott
****
NSW 2297

Pillay, Deborah – Sunday, 14 August 2022 – 20:23:00

Subject	Fracking proven track record
From	Deborah Pillay
Sent	8/14/2022 8:23:00 PM

Good Morning!

The science is clear that fracking is not good for the planet in a multitude of ways.

Please, NT Government look to the science and deny approvals to those companies which wish to profit from this process. At the current time it is Origin with its 12 proposed drill sites that are of concern.

Please say 'no' to fracking.

Yours sincerely,
Deborah Pillay

Deborah Pillay
****
WA 6060

Pillsbury, James – Thursday, 11 August 2022 – 17:35:53

Subject	Don't frack
From	James Pillsbury
Sent	8/11/2022 5:35:53 PM

I am a retired Aged Care worker - I spent 20 years caring for Aboriginal elders. I watched them grieve over our massacres, our greed, and our brainless environmental destruction of the living things of their country.
Time to change - you who read this know what we have done and are doing to the planet. Do not facilitate it.

Sincerely
James Pillsbury

James Pillsbury
****
WA 6728

Pitchers, Will – Sunday, 14 August 2022 – 21:02:17

Subject	Please stop fracking plans
From	Will Pitchers
Sent	8/14/2022 9:02:17 PM

Dear Northern Territory Dept. of Environment,

As a scientist, I have watched my whole life as Governments keep making decisions that privilege profit of the climate. Every single day I feel weighed down by grief at the state of our shared environment, and fear for the future of the generations that followed my own.

Please, I beg you – LEAVE THE FOSSIL FUELS IN THE GROUND. To do anything else, while the country alternately burns and floods, would be a callous act of vandalism.

Yours,

Dr. W. Pitchers

Will Pitchers
****
VIC 3051

Pitman, Heather – Sunday, 14 August 2022 – 22:41:30

Subject	Stop Origins Fracking Plans
From	Heather Pitman
Sent	8/14/2022 10:41:30 PM

To: Northern Territory Department of Environment, Parks and Water Security,

My name is Heather Pitman,
I currently live in Victoria and have always strongly advocated against fracking in this state as well as in all of Australia.
I totally support Traditional Owners, Farmers or anyone in their rejection of fracking on the land, whether it is Origin or any other company seeking to do the same.
Our land is precious and already under stress! Our water supply and its quality is crucial to all life. Evidence from around the world has shown how disastrous fracking has proven to be, leaving lands uninhabitable.
We already have plenty of gas and need to manage that resource so much better!
I am a customer of Origin as originally they were renewable energy advocates, or would have us believe, but I am fast losing faith in them and will change providers if they don't put our planet first before profit, and irresponsibly disregard firstly the people who live on the land and strongly reject fracking, as well as ignoring governments!
Please reject Origins proposal to frack the Northern Territory, and by doing so protect our beautiful Australia for future generations.
Yours sincerely
Heather Pitman

Heather Pitman
****
VIC 3980

Pitts, Charlotte – Monday, 15 August 2022 – 12:47:26

Subject	Fracking in the NT
From	Charlotte Pitts
Sent	8/15/2022 12:47:26 PM

It is outrageous that fracking can be considered and even worse without a licence. Australia is already ranked very low internationally for environmental matters. I am also wondering how democratic Australia really is. If it is about revenue, how come the big resources companies (oil and gas) aren't being taxed peoperly????

Charlotte Pitts
****
NT 0812

Planert, Dorte – Friday, 12 August 2022 – 13:54:13

Subject	Please don't allow Origin's fracking plans
From	Dorte Planert
Sent	8/12/2022 1:54:13 PM

To Northern Territory Department of Environment, Parks and Water Security

I am extremely concerned that Origin plans to open twelve new fracking drills/wells in the Northern Territory will threaten water, cultural heritage, and our climate. The science is clear: To insure human survival and avoid climate disaster all remaining fossil fuels should stay in the ground.
These new wells pose massive risks to water because of rock-dissolving Fluoride-containing acid being used = "Forever chemicals". Traditional Owners have been staunchly defending their Cultural heritage, country and climate against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.
Remote Aborginal communities use this road all the time. Right on the side of the road in plain sight, some of Origin's fracking infrastructure is already leaving scars all over Country.
Traditional Owners are seeing the impacts of gas expansion.
"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land." says Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola
The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water for drinking will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas for short-term profits is what these plans would do, bypassing crucial government approvals.
Fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to.
As long as fracking impacts our climate, water, and communities, it cannot be allowed.
Sincerely Yours

Dorte Planert
****
NSW 2550

Platt, Cameron – Saturday, 13 August 2022 – 14:47:22

Subject	Stop Origin's Fracking Greed
From	Cameron John Platt
Sent	8/13/2022 2:47:22 PM

To Northern Territory Department of Environment and Water Security,
The Damage to groundwater, traditional lands, progress on renewable energy, sacred sites let alone what our children will think of the legacy we are leaving them is something the directors of origin are considering!?! Please stop this now!

cameron john platt
****
WA 6157

Platt, Chris – Sunday, 14 August 2022 – 10:37:12

Subject	Stop Origins fracking plans
From	Chris Platt
Sent	8/14/2022 10:37:12 AM

Fracking is unacceptable and detriment to our environmental balance,as many other damaging issues.We need to look after this planet for it to be sustainable for future generations.

Chris Platt
****
VIC 3199

Pohle, Joan – Saturday, 13 August 2022 – 08:36:42

Subject	Reject Origin's Fracking plans
From	Joan Pohle
Sent	8/13/2022 8:36:42 AM

My name is Joan Pohle and I do not live in the Northern Territory but in NSW in Murwillumbah 2484. Where I live does not stop me from being horrified at the attitude of Origin to our First Nations people the Traditional Owners.
Time and again the Traditional Owners have pointed out the destructive attitudes and actions of Origin and have clearly banned fracking.
At one stage Origin were asked to show how their activities could perhaps be reduced to as low a level as practical or possible but this Company revealed their Environmental Plan has made no such consideration.
Therefore I am respectfully asking the Northern Territory Government to stand by the Traditional Owners.

Thank you - Joan Pohle

Joan Pohle
****
VIC 3451

Pointon, Rikki – Friday, 12 August 2022 – 17:15:44

Subject	STOP FRACKING UP THE NT
From	Rikki Pointon
Sent	8/12/2022 5:15:44 PM

The world is melting. We have fires burning across Europe and we all know they'll return here when the flooding all along our east coast comes to an end. People are dying prematurely all over the world from air pollution. Teenagers are presenting with crippling anxiety because they're not sure if there is any future for them. This is not the time to start destroying the environment. We are the driest continent on Earth, it makes no sense to put our water table at risk for greedy mining interests.
Solar power, wave power and wind power offer real alternatives to the archaic fossil fuel industry.
If you were to go to a hospital and be offered outdated methods over modern innovation you would not accept it. It's not fair to continue to blow up our planet when there are alternatives.
This generation is taking away the choices of the next by continuing to line the pockets of the already wealthy for an outdated and environmentally punishing form of gas exploration.
I back the Traditional Owners, I back future generations and I back the planet in my absolute opposition to Origin's plans.

Rikki Pointon
****
NSW 2289

Polack, Anthony – Sunday, 14 August 2022 – 16:36:28

Subject	Please stop Origin's fracking plans
From	Anthony Polack
Sent	8/14/2022 4:36:28 PM

Dear madam/Sir,

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT.

Now, they've lodged an Environment Management Plan (EMP) as part of their application to drill and frack twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But, it's even worse…

They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

But right now, Origin wants to go ahead with fracking without all recommendations implemented.

For example:

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);

In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater. Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

That's why you must please stop Origin's fracking plans.

Anthony Polack
****
VIC 3124

Polkinghorne, Brian – Saturday, 13 August 2022 – 09:35:05

Subject	Submission - Origin's Fracking Plans
From	Brian Polkinghorne
Sent	8/13/2022 9:35:05 AM

Northern Territory's Department of Environment, Parks and Water Security.

My name is Brian Polkinghorne, a 'refired' Uniting Church in Australia minister. I lived and worked in Tanzania as an agricultural missionary for 26 years and have seen at first hand how 'the poor' are given a very rough spin. I make this submission to stand up for 'the poor', the Indigenous custodians of Australia and the poor all around the world who are starting to disproportionately suffer from Climate Change which is not of their making, but ours, the rich and powerful in 'The West'.

Many years ago there was a promotion for gas with the slogan – "We're cooking with gas." It was catchy theme, and in our ignorance, we believed that this was a smart move.

How wrong we were. We were taken in, by the crocodile's grin! But like the many mistakes that humanity has made since the Industrial Revolution, we never foresaw the consequences of digging up more and more coal, burning more and more coal and in the West going on an unquestioned Indulgence Party. We never dreamed of the negative ramifications of the splurge on exploitation and pollution of the environment from our CO2 and methane emissions and the concomitant destruction of the atmosphere and horrifically devastating growing Climate Crisis.

We never dreamed of the fact that we could also extract and burn gas willy-nilly without any consequences. We had never been informed just how detrimental to the sustainability of life on earth was the flaring of methane or the fugitive gas leaks.

But we know now.

The cat is out of the bag.

Climate change is starting to demonstrate very plainly that "There is no such thing as a Free Lunch" – because someone, somewhere, sometime will have to pay the price – one of Barry Commoners Four Principles of Ecology. Our generations have 'enjoyed' the Party through our mindless consumptive and wasteful lifestyles. Now we know and there is no longer any excuse for our reckless practices and lifestyles – apart from corporate and private greed.

Origin's gas venture is the Exxon of the oil Industry and the BHP and Rio Tinto of the coal industry – all out for short term profits and dodgy ethics. All out for instant fame and fortune built on disregard for Indigenous land rights, excessive water consumption and contamination, unsubstantiated claims about disposal of contaminated water and long-term global deleterious effects from more and more destructive Green House Gas emissions.

The writing on the wall is very clear. Once Origin get a foot in the door, it will be very difficult to close the door and they will use this advantage to ride roughshod over our people and environmental accountability. The writing is on the wall.

Please listen to the Indigenous voices. Please listen to the cries of the world for a dignified future for coming generations. Please listen to the cry of the earth which is now groaning from our destructive assault on its peace and harmony. The earth is the Lords and we are called to be responsible managers.

Please take your responsibilities seriously and reject Origin's plans while we seek new ways and means of living in harmony with each other and the earth.

Yours sincerely.

Brian Polkinghorne (Rev.)

Brian Polkinghorne

****
SA 5118

Pollard, Jonathon – Saturday, 13 August 2022 – 08:11:14

Subject	Fracking
From	Jonathon Pollard
Sent	8/13/2022 8:11:14 AM

It is abuse to the land and the people, this act.
It causes harm.
It is failure of duty of care,
To pursue fracking in the Northern Territory..
A failure of leadership.
Money is not good enough reason to destroy our world.

Jonathon Pollard
****
NSW 2471

Ponce, Raphaël – Sunday, 14 August 2022 – 20:03:02

Subject	raphael.ponce77@gmail.com
From	Raphaël Ponce
Sent	8/14/2022 8:03:02 PM

Stop Origin's reckless fracking plans

Raphaël Ponce
****

Porret, Martine – Sunday, 14 August 2022 – 14:19:46

Subject	Stop origins fracking plans
From	Martine Porret
Sent	8/14/2022 2:19:46 PM

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years. Stop origins fracking plans

Martine Porret
****
NSW 2106

Porter, Dean – Sunday, 14 August 2022 – 15:54:28

Subject	Origin fracking a no go
From	Dean Porter
Sent	8/14/2022 3:54:28 PM

It is time to put nature first. Fracking can only damage the environment that you as a territory rely on for tourism. Our country is unique in so many ways. Fracking is proving disastrous all over the world wherever it has been carried out. The potential for the water in the area to be fouled is to high.
Please reject any new wells from being opened.

Dean Porter
****
NSW 2094

Porter, Raelene – Saturday, 13 August 2022 – 17:58:27

Subject	Stop Origon Fracking Plans
From	Raelene Porter
Sent	8/13/2022 5:58:27 PM

This should not go ahead as it will destroy the country which is rightfully first nations land and will threaten future water supply and the environment

Raelene porter
****
VIC 3824

Porter, Venessa – Saturday, 13 August 2022 – 06:26:24

Subject	Stop Origin's fracking plan's
From	Venessa Porter
Sent	8/13/2022 6:26:24 AM

Guy's the damage from fracking is devastating to the environment. Do the research and make wise decisions..... don't allow greed, gluttony and stupidity be your legacy.
Cheers, Venessa Porter

Venessa Porter
****
QLD 4810

Postill, Kim – Sunday, 14 August 2022 – 16:56:47

Subject	No fracking. Please reject Origin's plans.
From	Kim Postill
Sent	8/14/2022 4:56:47 PM

To The Northern Territory Department of Environment, Parks and Water Security,

I'm writing from North East Victoria but have family, friends and a long association with and deep love of the beautiful NT.

I implore you to reject Origin's application for fracking on Amungee Mungee pastoral station, an ill conceived, environmentally disastrous plan which ignores Traditional owners' wishes.

Not only is the application flawed and misleading with an indication of exploration rather than production, it will negatively impact climate and environment for a substantial time when the earth is at a critical point requiring urgent action to minimise global warming.

For too long the wishes of TOs have been ignored and country has been decimated for the profits of a few. It's time we respected indigenous wisdom and cultural sovereignty of country.

Fracking is dangerous and wasteful, particularly for the excessive water use and Origin have admitted they have no plan for the toxic waste water.

I don't believe fracking should proceed at all, but especially considering the recommendations of the Pepper Inquiry to mitigate the environmental, social, cultural and economic risks associated with fracking have not been implemented which was part of the agreement to permit fracking within the NT.

I implore the NT Government to reject outright Origin's EMP, and consider strongly whether any fracking proceeds with the likelihood to destroy country, water, and our climate. This whole application undermines the integrity of the regulatory system and makes a mockery of any requirements for risk mitigation.

Please, please, please make the right decision.

Kim Postill
****
VIC 3741

Potter, Ann – Saturday, 13 August 2022 – 17:36:06

Subject	ann.rosspotter@gmail.com
From	Ann Potter
Sent	8/13/2022 5:36:06 PM

i am writing to voice my concerns re Origins plans for fracking. My concerns are any gas exploration leads to an increase in Greenhouse gases in our atmosphere. We are seeing some early problems from climate change. Frankly it is scary.
I am also concerned regarding the possible effects on our precious fresh water supplies. Once this water is used it is gone forever.
please do not allow the short term financial gains to outweigh the long term health of our world.

Ann Potter
****
NSW 2077

Poutsma, Anthony – Saturday, 13 August 2022 – 19:09:38

Subject	Stop fracking
From	Anthony Poutsma
Sent	8/13/2022 7:09:38 PM

The climate is radically changing. Fresh water is a little recipes resource and world wide supply of s dwindling. Climate science warns us of the consequences if fossil fuels do not stay safely where nature sequestered them, in the ground. Conservation of our unique and pristine environment will deliver every morning increasing dividends far into the future. There are so many reasons why fracking is wrong. Get with the program and make decisions that benefit all of us.

Anthony Poutsma
****
QLD 4055

Povey, Jane – Saturday, 13 August 2022 – 20:22:19

Subject	Stop Origins Fracking Plans
From	Jane Povey
Sent	8/13/2022 8:22:19 PM

Northern Territory Department of Parks, Environment and Water Security.
I wish to submit my objection to the Origin Energy plan to build fracking drills in the Northern Territory. There is ample evidence that the security of water cannot be guaranteed with such drills with fractures and pollution to the water table a real possibility. Often fracking drills are going through aquifers hundreds of thousands years old and there is no understanding of how or where they refill. Once these aquifers are disturbed the cannot be repaired and given that the process is highly water intensive in a dry country like Australia it is not a viable option. Fracking is being used as a process to delay the transition to renewables and there is no long term study or plan about mitigating envirnomental effects that may occur in the future. Just because something is 'less bad' does not make it good and the NT Government should not allow these drills to go ahead.

jane povey
****
NSW 2848

Powell, Sharon – Sunday, 14 August 2022 – 17:32:22

Subject	Origins planned fracking
From	Sharon Powell
Sent	8/14/2022 5:32:22 PM

I'm writing to ask the NT government to PLEASE not approve the fracking Origin wants to inflict on your beautiful, pure state.
My time in the Territory is such a wonderful memory, it's inconceivable that Origin would get approval to desecrate it in this hideous and irreversible way.
Please take a stand against this blight that the traditional owners are fighting against - they know the damage and hurt it will do to the land. So do I.
Sincerely,

Sharon Powell

Sharon Powell
****
QLD 4870

Power, Chris – Saturday, 13 August 2022 – 09:00:49

Subject	Stop Origin's destructive fracking plans
From	Chris Power
Sent	8/13/2022 9:00:49 AM

This is a submission to the Northern Territory Department of Environment, Parks and Water Security, requesting that the NT government halt Origin's crazy, suicidal plans to frack more land in the territory. Just your own Department's name should amply provide ample grounds for refusing these disastrous plans - fracking will destroy key components of the rapidly declining environment and water supply, as well as potentially destroy the home and essential, life supporting resources that the local aboriginal community original owners rely on for their ongoing existence and survival. Origin's plans are driven by greed and run completely in the face of the world's demands that all fracking cease now to help protect the entire planet and its population from the worst ravages of climate change. We've seen the impacts of the fossil fuel industry's irresponsible greed here in Australia manifest as the recent disastrous, fatal bushfires, floods and their enormous toll on the lives of our citizens and infrastructure. We are also seeing it now in Europe. Please don't let this sociopathic, irresponsible corporation continue to drive the world population and environment to further disaster.

Chris Power
****
NSW 2481

Power, Ken – Sunday, 14 August 2022 – 12:29:01

Subject	Stop n Listen.
From	Ken Power
Sent	8/14/2022 12:29:01 PM

Will u listen to the people and first nation soon we will need all the land we can get .My ancestors came here in early 1800s they built most of the industry here today , they listen ed to the first people and working hard most of all took great care to keep the water below n above clean and respect your all about money n greed and that is what ends this earth . Ivory Einstein.

Ken Power
****
QLD 4507

Powrie, John – Friday, 12 August 2022 – 16:10:31

Subject	Stop Origin fracking
From	John Powrie
Sent	8/12/2022 4:10:31 PM

Fracking is far too destructive. There are better less damaging alternatives.

john powrie
****
QLD 4558

Prairie, Anne – Friday, 12 August 2022 – 14:21:10

Subject	Stop fracking!
From	Anne Prairie
Sent	8/12/2022 2:21:10 PM

This s unsafe! Stop putting profits over health! Invest in CLEAN energy!

Anne Prairie
****

Preston, Matt – Friday, 12 August 2022 – 17:57:00

Subject	stop Origin's reckless fracking plans
From	Matt Preston
Sent	8/12/2022 5:57:00 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

matt preston
****
QLD 4564

Preston, Sue – Thursday, 11 August 2022 – 19:39:46

Subject	Stop Origin's Plans to Carry OutT Fracking
From	Sue Preston
Sent	8/11/2022 7:39:46 PM

To the Northern Territory Department of Environment Parks and Water Security.
I am writing to express my opposition to Origin's proposal to carry out 12 fracking drills in the Northern Territory. Even one fracking drill would be one too many.
The reasons for my opposition are because the negative environmental implications are enormous. If the water table is impacted, and the chances of error are high, it is irreversible and would damage the environment.
The effect of new gas wells would add to the already disastrous effect of emissions heating our precious planet. Any profits are short term, whilst the long term effects of climate change will cost many times more than any profits.
However, even more importantly, this proposal threatens the cultural heritage of our First Nations People.
I respectfully ask that you respect the demands of the Traditional Owners, and that you also protect the unique environment and the precious water of the Northern Territory. Please veto Origin's submission.
Respectfully,
Sue Preston

Sue Preston
****
NSW 2250

Price, Pam – Sunday, 14 August 2022 – 07:34:52

Subject	Stop Origin's Fracking in theNT
From	Pam Price
Sent	8/14/2022 7:34:52 AM

If Australia is to meet our 43% target we cannot afford for this mass fracking to go ahead. It will affect our environment, water supplies and remote communities in the area. Do the responsible thing and do not support this proposal.

Pam Price
****
NSW 2489

Price, Rosalind – Saturday, 13 August 2022 – 16:57:23

Subject	Reject Fracking in the NT
From	Rosalind Price
Sent	8/13/2022 4:57:23 PM

This is a passionate plea to reject proposals from Origin and any other corporations to open new fracking drills in the NT - especially when recommendations of the Pepper Inquiry are not genuinely implemented.

I'm a city-based southerner, but I'm a dedicated advocate for the environment and Indigenous rights. I'm convinced of the need to protect Australia's valuable ecosystems and First Nations' culture, and to wean ourselves off fossil fuels. As a director of Pixel Seed, a philanthropic family fund that supports biodiversity, the conservation of habitats and water systems, and a rapid, just transition to a renewable economy, I back my convictions with financial action.

I urge you to think long-term. Australia currently faces difficulties with gas supply, but this is a short-term problem that's best solved by exporting far less gas and doing everything we can to become a renewable energy economy – not by repeating past errors. It may be tempting to exploit new sources of gas, but it's not worth the risk to ecosystems, water systems, and indigenous heritage. The long-term dangers - particularly of increasing carbon emissions, exacerbating climate change, and damaging waterways - far outweigh any short-term benefit.

Australians have shown clear support for climate action. We want politicians to protect our natural and cultural heritage, to respect Indigenous voices, and show leadership in building a sustainable future. Fracking has no part in this future.

Yours sincerely,
Rosalind Price

Rosalind Price
****
VIC 3206

Prichard, Janette – Saturday, 13 August 2022 – 16:03:10

Subject	STOP and listen. Fracking is not viable in NT
From	Janette Prichard
Sent	8/13/2022 4:03:10 PM

Fracking used to be banned in the NTfor good reason. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to. Without rigorous safety regulations, fracking can poison groundwater, pollute surface water, impair wild landscapes, and threaten wildlife.Australia is already short of water- don't poison more of it Please!!!!

So it's simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Janette Prichard
****
NSW 2043

Pring, Jill – Saturday, 13 August 2022 – 16:08:44

Subject	Ban Origin's Fracking Plans
From	Jill Pring
Sent	8/13/2022 4:08:44 PM

As an Origin shareholder, I totally oppose their plans to frack on aboriginal lands.
At a time of climate chaos, these projects are untenable.
Please stop Origin's fracking plans.
Yours sincerely
Jill Pring

Jill Pring
****
VIC 3222

Prowse, Josephine – Saturday, 13 August 2022 – 16:58:36

Subject	Stop Origin' fracking plans.
From	Josephine Prowse
Sent	8/13/2022 4:58:36 PM

Please do not go ahead with this fracking project as it poses a threat to our under ground water & to the environment & climate change...as does all fracking.
This is a short sighted & very poorly thought out plan...Stop Origin's franking plans

Josephine Prowse

Josephine Prowse
****
QLD 4802

Pryer, Kat – Saturday, 13 August 2022 – 23:15:11

Subject	Stop Origin's Fracking Plans
From	Kat Pryer
Sent	8/13/2022 11:15:11 PM

To NT dept of parks, water & environment.

Please don't allow Origin to Frack the NT anymore. Enough is enough. How much destruction can our beautiful, fragile land handle.
It isn't right. You know it's not right and I don't need to try and convince you of that.
No more please. We need to respect country. People are country and country is people.. Whatever we do to country, we ultimately do to ourselves.

Kat Pryer
****
VIC 3178

Purcell, Michele – Friday, 12 August 2022 – 17:12:55

Subject	Our Government should reject Origin's Fracking Plans for the NT
From	Michele Purcell
Sent	8/12/2022 5:12:55 PM

To the Northern Territory Department of Environment Parks and water security.

I am appalled to hear about the proposed twelve new fracking drills that Origin wants to undertake in the Northern Territory and which is to be presented to the NT Government in a few days.
I understand I can make a submission, as a member of the public, expressing my rejection to the plan. The fragile nature of Australia's waterways and water supply needs to be respected. Fracking has been historically shown to contaminate waterways. And not just in Australia. The fact that Alexander Cote has said he has plans to ship toxic waste water out of NT - toxic waste water!- and has no real plans to cope with toxic wastewater should be enough in itself to give government decision makers pause. Australia needs to protect its water - not any more allow It to be contaminated or allow any more precious water to be supplied to a fossil fuel company. And who benefits from this decision to allow Origin to frack in the NT? Certainly not Australia's First Nations, nor the environment, nor the waterways nor the average Australian citizen. In my opinion this proposal of Origin's is immoral and indefensible.
Michele Purcell

Michele Purcell
****
WA 6018

Purchon, Rebecca – Thursday, 11 August 2022 – 17:58:27

Subject	Please Stop Origins Fracking Plans
From	Rebecca Purchon
Sent	8/11/2022 5:58:27 PM

Dear NT Governmental Body,

I'm making this submission as a deeply concerned citizen, psychologist, tax payer and mother.

I'm appealing for the NT reviewing panel to reject Origins exploratory fracking proposal on the following grounds:
1.The IPCC continues to issue severe warnings about the immediate cessation of fossil fuel production. Given the increasingly grave climate crisis I implore you to reject Origins proposal.
2.Origin will need copious amounts of water for this project and given the projected water shortages is irresponsible.
3.Origin has not implemented the recommendations from the 2018 Pepper Inquiry which fully acknowledges the environmental, cultural, social and economic risks of this venture.

For the sake of a liveable planet and future generations, please consider the safety of these sort of mining explorations as dangerous and unnecessary.

Sincerely,

Rebecca Purchon

Rebecca Purchon
****
WA 6157

Pyke, Marcella – Saturday, 13 August 2022 – 18:01:04

Subject	marcellapyke@gmail.com
From	Marcella Pyke
Sent	8/13/2022 6:01:04 PM

I am horrified by Origin's plans to frack a further 12 sites in the NT. These plans, and fracking in general, go absolutely against our responsibility as Australians to protect our land, and to fight anthropogenic climate change.
For Indigenous peoples these plans must be dreadful, given the damage to Country carried out in pursuit of money over the last 200 years. The Labor Federal government's suggested Indigenous Voice to Parliament means nothing if Federal, State or Territory governments allow the further destruction of an already massively-damaged country through the pursuit of mining, fracking and clearing profits. Origin should be pursuing renewable energy sources such as solar and wind, and using the company's vast wealth to establish technologies to better exploit those resources.
Origin's poor decision-making and contributions to the destruction of our natural heritage will be unforgivable. I do not understand how any Origin employee, from CEO down, can justify worsening our environmental catastrophe. Don't these people have children and grandchildren?

marcella pyke
****
NSW 2753

Pyner, Catriona – Thursday, 11 August 2022 – 20:49:44

Subject	Commit to not Fracking Betaloo
From	Catriona Pyner
Sent	8/11/2022 8:49:44 PM

The madness must stop. Not a cent more of taxpayers subsidies. We end up paying for our resources to be shipped overseas.

Catriona Pyner

Catriona Pyner
****
NSW 2204

Qiolevu, Atunaisa – Sunday, 14 August 2022 – 07:10:30

Subject	Stop Origin fracking plan
From	Atunaisa Qiolevu
Sent	8/14/2022 7:10:30 AM

Origin would you allow this in your own home happening to you and your family and them for generations. Don't mess with something you don't know much about. Lives are precious in the Creators sight. Stop the rot. We are watching you.

Atunaisa Qiolevu
****
NSW 2143

Quach, Hayley – Friday, 12 August 2022 – 14:14:17

Subject	STOP Origins fracking plans
From	Hayley Quach
Sent	8/12/2022 2:14:17 PM

To Whom it May Concern,

We all know fracking is not a good idea. It releases tonnes of methane. It releases hydrocarbons that are airborne and cause health and respiratory issues. It contaminates groundwater and affects whole ecosystems.

We know all this. And that is why I was so devastated to hear that Origin plans to open 12 fracking wells in the Northern Territory. This is against traditional owners wishes, and against common sense management of our natural resources. It is against the trend of moving towards renewable energies and sustainable energy industries.

Please do everything you can to prevent this harming fracking from occurring in Northern Territory. Our traditional owners deserve respect. Our environment deserves respect. Our image as a pristine country deserves respect.

Yours sincerely,

Hayley Quach

Hayley Quach
****
VIC 3352

Queiroz, Juliana – Friday, 12 August 2022 – 13:17:59

Subject	Stop Origin fracking in the NT
From	Juliana Lobo De Queiroz
Sent	8/12/2022 1:17:59 PM

To NT department of environment, parks and water security,
Please stop plans to frack land. It is time to look for sustainable ways of generating energy. We've done enough damage to the planet and to land that has been stolen from First Nations population.
Please think of the future generations and the long term damage that this type of energy extraction makes.
Greed is the only justification for such decision. It is enough, we need to think ways to live in this planet without destroying it any further. Enough! Stop!

Juliana Lobo de Queiroz
****
VIC 3071

R, Phillip – Monday, 15 August 2022 – 22:57:12

Subject	Do the right thing
From	Phillip R
Sent	8/15/2022 10:57:12 PM

Come on, NT Government, do the right thing.

That is all I can say.

Phillip R
****
SA 5034

Raffin, Nikko – Friday, 12 August 2022 – 19:05:28

Subject	Stop being so rediculous - this is no time to be considering Fracking - the NT, origin or anyone else
From	Nikko Raffin
Sent	8/12/2022 7:05:28 PM

We "the people" and the ET's that count are all committed to the restoration of our planet & if you can not use your common sense best you move on before someone or something cleanly, knocks you out. Choose wisely & blessings for your day

nikko raffin
****
NSW 2454

Ralston, Caroline – Saturday, 13 August 2022 – 14:31:17

Subject	Stop Origin's Fracking Plans
From	Caroline Ralston
Sent	8/13/2022 2:31:17 PM

To the Northern Territory Department of the Environment,
To permit Origin to go ahead with 12 new fracking sites goes against the wishes of the Traditional Owners and is a further blow to the climate. Don't let them do it. It is truly insane, inhumane and a total violation of the environment and traditional ways of living. Sincerely Nagasuri Caroline Ralston

Caroline Ralston
****
NSW 2050

Ramel, Sharon – Friday, 12 August 2022 – 14:32:54

Subject	sharonramel@gmail.com
From	Sharon Ramel
Sent	8/12/2022 2:32:54 PM

Department of Environment, Parks and Water Security
25 Chung Wah Terrace,
Palmerston City NT 0830

Dear Northern Territory Department of Environment Parks and Water Security,

I write to you as a concerned citizen about the consequences of allowing Origin Energy to frack in your uniquely beautiful country.

If allowed to go ahead this will have no benefits for the traditional landowners - our first nations people. This is a short term profit business for Origin that will like all fracking leave its scars and environmental destruction in its wake.

Fracking is not natural - its very name - fracking should be enough to scare any regulator from allowing it to proceed.

We live on the driest continent on the planet - our water - every drop is sacred and precious. We cannot allow this appalling short term energy grab by Origin to proceed.

Renewable energy is our collective future - yet these companies still insist on their destructive practices.

The Traditional Owners have clearly signalled opposition - they are both remote and reliant on the water. Clearly that should be enough for any regulator to reject this business proposal.

We must think ahead - at least seven generations and consider the impact of this plan by Origin. It threatens the climate - already in big trouble, it threatens culturally heritage - we have seen first hand in Western Australia with the deliberate destruction of the Juunkan Gorge by Rio Tinto. It seems that generally mining companies pay scant regard to the environment.

All credible science says we must stop all new coal and gas projects from proceeding if we are to avoid potential catastrophic climate chaos. Already in Australia the fire season is longer and hotter, the floods are more than once in every 100 years - three this year. Globally we see evidence everywhere. Over 50c in Iraque, over 40c in the UK and on and on it goes.

Please consider the future generations and reject this proposal by Origin Energy

I humbly thank you for your time and consideration

Sharon Ramel
105 Summer Brace
Yallingup WA 6282

Sharon Ramel
****
WA 6020

Ramsden, Ruth – Friday, 12 August 2022 – 14:35:54

Subject	stop origins tracking plans
From	Ruth Ramsden
Sent	8/12/2022 2:35:54 PM

Wounding the Northern Territory land, destroying water, cultural heritage and climate. Another destructive plan. It must be stopped

ruth ramsden
****
NSW 2548

Rance, Philip – Friday, 12 August 2022 – 10:00:15

Subject	Stop Fracking !
From	Philip Rance
Sent	8/12/2022 10:00:15 AM

Please don’t let profits override protecting much more valuable assets -Environment, Cultural areas , water and climate . Regards Philip .

Philip Rance
****
QLD 4873

Rance, Phillip – Friday, 12 August 2022 – 15:04:09

Subject	Demand the NT Government stop Origin's reckless fracking plans
From	Phillip Rance
Sent	8/12/2022 3:04:09 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Phillip Rance
****
WA 6210

Rands, Robert – Sunday, 14 August 2022 – 15:20:51

Subject	Stop Origin's Fracking Plans
From	Robert Rands
Sent	8/14/2022 3:20:51 PM

The impacts of fracking on ecosystems inhabited by native peoples are unacceptable to those people.

Here are some of their oncerns:
"The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Robert, fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to. "

I'm sure there will be authoritative submissions against the proposal, put by experts. I endorse those and hope that the dvelopment is rejected, on scientific grounds, including risks associated with consequent releases of further greenhouse gases.
Yours sincerely,
Robert Rands
60 Waterworks Road
Dynnyrne, Tasmania 7005

Robert Rands
****
TAS 7005

Rankin, Bruce – Sunday, 14 August 2022 – 14:18:31

Subject	NT Fracking
From	Bruce Rankin
Sent	8/14/2022 2:18:31 PM

It is time that First Nations people are put ahead of fracking which is an incredibly destructive process.
The risk to ground water means it should never happen. This would, in turn, threaten agricultural practices in the region.
Put the investment into renewables and reap the benefit quicker then you would think.
It's just not worth it.

Thank you
Bruce Rankin, Belgrave Vic

Bruce Rankin
****
VIC 3160

Ransley, Jenny – Saturday, 13 August 2022 – 14:59:48

Subject	Re Origin Energy's Fracking Plans
From	Jenny Ransley
Sent	8/13/2022 2:59:48 PM

Dear Northern Territory Government

Please consider seriously the effects of the fracking plans for the Northern Territory as proposed by Origin Energy. This fracking will impact negatively on land managed by the Traditional Owners, and fracking will endanger underground waters, destroy Aboriginal heritage sites, and also will not help in curbing dangerous climate-changing emissions. It seems to me incredible that at this time in history the government would allow this reckless action to continue! It would seem that big business is intent on raping our country in order to make as much profit as possible regardless of the damage that will be done. It makes me despair for the future.
I am not a resident of the Northern Territory, but in the past I have been a visitor and marvelled at the beauty there. I live in Hobart, and it's not for my own sake that I am protesting this fracking plan, but for the sake of the future of the Earth and all it's inhabitants. It's past time that those in power began to take the future seriously, not just concern themselves with the present.

Yours sincerely
Jennifer Ransley

Jenny Ransley
****
TAS 7010

Ratcliffe, Glen – Sunday, 14 August 2022 – 14:16:26

Subject	Don't open any new fracking wells
From	Glen Ratcliffe
Sent	8/14/2022 2:16:26 PM

Please don't wreck our environment by opening new fracking well. Tell them to get smart about their energy harvesting,

Glen Ratcliffe
****
SA 5341

Ray, Chris – Friday, 12 August 2022 – 22:25:06

Subject	No wells!
From	Chris Ray
Sent	8/12/2022 10:25:06 PM

Help the planet and people's not destroy it and them !

Chris Ray
****
QLD 4613

Raymond, Audrey – Thursday, 11 August 2022 – 16:16:28

Subject	Stop Origin's Fracking Plans
From	Audrey Raymond
Sent	8/11/2022 4:16:28 PM

Origin's plans to open new fracking drills is terrifying and totally irresponsible, greedy and showing a despicable lack of regard for the Aborigines, our land, environment and wild life.
It will be unforgiveable behaviour on the part of the Government if they do not put a stop to Origin's plans and they will have a lot to answer for if they fail to do so. The damage done will last years and years.

Audrey Raymond
****
QLD 4556

Read, Rosemary – Friday, 12 August 2022 – 17:31:23

Subject	STOP Origin's Fracking Plans
From	Rosemary Read
Sent	8/12/2022 5:31:23 PM

Lauren Moss
Environment Minister
Northern Territory Department of Environment,
Parks and Water Security

,
Dear Lauren,

I live in Victoria where we have some of the best drinking water in Australia - PLEASE let the First Nations People living in your Territory have the same human right - PLEASE - they deserve exactly what we have!!
Drinking water in particular in the Northern Territory has been shown to create so many problems and illnesses in humans. Recently this drinking water proved to be some of the worst in Australia (if not the world) - right in your own jurisdiction. PLEASE STOP Origin's Fracking.
Gas is going out of "fashion" - we need to STOP exploration of gas FULL STOP. Origin is just being greedy hoping to sell this resource.
Australia and the NT will be so much better off with more and more renewables. Kinder on everything and everyone:)

I am pleading with you to stop Origin from damaging the environment and even worse!! These Origin Plans will cause extremely high emissions to sky rocket and do further damage to the land, water, cultural heritage and the climate generally for you, me and all Australians.
Origin's Fracking and Gas Exploration should be stopped now, completely before its too late.
Please reject Origin's Environmental Management Plan (EMP)

Thank you for taking the time to read my letter.

Kind regards,
Rosemary Read

Rosemary Read
****
VIC 3114

Reay, Peter – Thursday, 11 August 2022 – 14:52:09

Subject	RE; Stop Origins' fracking plans.
From	Peter Reay
Sent	8/11/2022 2:52:09 PM

Northern Territory Department of Environment, Parks and Water security,
Hi,
Thank you for the opportunity to write to you on my concerns that further undermining of Traditional Owners Rights are eroded by this proposed Fracking.
I'm Peter Reay from originally Darug Darawahl lands of the Eora Nations, or Strathfield and Picton of NSW. Presently in Yidindji lands of Gimuy, or Cairns FNQld. I hold a visa and business certificate, thru the Sovereign Yidindji Government - to be on these lands till mid 2023. We must respect one another.
I'd like it known that there are many alternatives to energy sources than Fracking. As Fracking is dangerous and detrimental to underground waters and soils indefinitely.
So I oppose this Fracking.
Its simple really, Origin need the proper licences to start. Climate Bill 2022 is in the Senate now for assessment, but Origin are not considering the full climate impact. Lots of wastage of GHG over 5 years being open, will be destroying much hope of climate abatement now. Water Security, is not being addressed here as the usage and then disposal of contaminated water is unacceptable. The Pepper Inquiry is being ignored, why is this perpetuated and tolerated. 135 recommendations must be implemented before moratorium on Fracking could be lifted. What's happening here. There's still no implementation of handling wastewater, that will contaminate Traditional Owners SAFE SECURE water supply.
Traditional Owners don't want Fracking on their traditional lands putting at RISK their water, country, cultural heritage.
Great Aunt of my Fathers travelled by early automobile through this region, in early 1900's saying fresh waters at Daly Waters, was a relief. Keep it fresh waters forever, no Fracking please.
Yours sincerely
Peter Reay
Public Advocate

Peter Reay
****
QLD 4870

Reddaway, Lawrence – Friday, 12 August 2022 – 17:42:24

Subject	Fracking is dangerous to the aquifers and bad for climate warming
From	Lawrence Reddaway
Sent	8/12/2022 5:42:24 PM

Fracking is dangerous to the aquifers and bad for climate warming. So we should not allow any new fracking projects.

Lawrence Reddaway
****
VIC 3122

Reed, Sharyn – Sunday, 14 August 2022 – 11:56:48

Subject	Stop Origins fracking plans
From	Sharyn Reed
Sent	8/14/2022 11:56:48 AM

To the Northern Territory Department of Environment, Parks and Water Security!
Please don't allow Origins fracking plans to go through.
Regards Sharyn Reed

Sharyn Reed
****
VIC 3138

Reeves, Anthea – Sunday, 14 August 2022 – 17:10:05

Subject	Fracking.
From	Anthea Reeves
Sent	8/14/2022 5:10:05 PM

It is incomprehensible that there still exists appetite for pursuing fracking despite the knowledge that in so doing you are adding to the destruction our planet. I join with every intelligent human being who is against fracking.

Anthea Reeves
****
SA 5006

Reeves, Julianne – Friday, 12 August 2022 – 15:14:28

Subject	Stop Origin's fracking plans
From	Julianne Reeves
Sent	8/12/2022 3:14:28 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Julianne Reeves
****
NSW 2251

Reeves, Pamela – Sunday, 14 August 2022 – 14:29:41

Subject	Submission opposing Origin's plan to frack in NT
From	Pamela Reeves
Sent	8/14/2022 2:29:41 PM

To: Northern Territory Department of Environment, Parks and Water Security
I am writing to most strongly oppose Origin's plan to open twelve new fracking drills in the NT.
No new fossil fuel projects should be allowed because the emissions not just from the actual mining but the burning of those fuels will continue to increase the amount of carbon in the atmosphere and lead to irreversible and catastrophic climate change.
Origin's claim that burning gas will reduce emissions is completely false and does not stack up scientifically.
There are other major concerns about this proposed project.
1. Huge amounts of water will be required. In addition, the waste water will be trucked interstate, another source of carbon emissions. Origin has admitted it has no plan on how to deal with the waste water.
2. The traditional owners have not agreed to fracking on their land.
3. Origin has no production licence to sell the gas it extracts.
4. Not all of the recommendations from the Pepper Report of 2018 have been implemented.
The NT government must not allow this project to go ahead.
I have done extensive walks in the NT and enjoyed its unique landscape, flora and fauna. To think a mining company believes it has the right to destroy that is incredibly upsetting.
Renewables are the only way to move forward and comprehensively deal with climate change and carbon emissions. Mining and burning more fossil fuels is not the way to go.
I am, therefore, asking the Department to reject Origin's EMP.

Pamela Reeves
****
NSW 2111

Reid, David – Monday, 15 August 2022 – 20:34:52

Subject	Stop Origins Fracking Plans
From	David Reid
Sent	8/15/2022 8:34:52 PM

There is not enough known about effects on ground water and other possible effects on country. This poses too much risk for ecology and livelihoods.

David Reid
****
QLD 4358

Reid, Elaine – Thursday, 11 August 2022 – 15:05:56

Subject	Stop fracking
From	Elaine Reid
Sent	8/11/2022 3:05:56 PM

I have to say. Enough is enough. Stop this stupidity now. You are interfering with mother earth. No wonder our climate is in a mess. Floods,droughts all because we have idiots telling experts & the Indigenous people what to do. Once again, it's to make millions for mates. The environment doesn't matter to them. There is going to be disaster after disaster if this stupidity is not stopped.

Elaine Reid
****
TAS 7310

Reid, Margaret – Saturday, 13 August 2022 – 19:52:53

Subject	Fracking's environmental impact
From	Margaret Reid
Sent	8/13/2022 7:52:53 PM

To Northern Territory Government,
I am most concerned about fracking activities wherever they occur. Pollution of water courses and degradation of the country can occur, and traditional owners of this land have many reasons to oppose it. Every effort should go towards renewable energy, it is past time for depending on non-renewables.
Margaret

margaret reid
****
VIC 3941

Reid, Peter – Saturday, 13 August 2022 – 14:51:55

Subject	Stop Origin Fracking
From	Peter Reid
Sent	8/13/2022 2:51:55 PM

Please move to stop Origin's fracking of lands in the NT

Fracking is an obsolete, dangerous practice that is wrong in so many ways

Allowing future fracking wells indicates your government is out of touch with community sentiments and in touch with fossil fuel lobbyists

Thank you

Peter Reid
****
NSW 2549

Reid, Wendy – Saturday, 13 August 2022 – 14:22:09

Subject	Stop origin fracking
From	Wendy Reid
Sent	8/13/2022 2:22:09 PM

Please Northern Territory (it is not for origin to stuff up our beautiful country) it is up to the federal parliament to prevent this happening no fracking in the beautiful Northern Territory

Wendy Reid

wendy reid
****
NSW 2487

Reilly, Carol – Sunday, 14 August 2022 – 07:22:20

Subject	Be on the right side of history
From	Carol Reilly
Sent	8/14/2022 7:22:20 AM

To the Northern Territory Department of Environment, Parks and Water Security..... Scientists having been warning us for decades of the climate crisis that we are now seeing obvious evidence of ..... droughts, floods and environmental degradation. Our use of gas is a major contributor to global warming. Be on the right side of history and ban fracking in the NT. Carol Reilly, Tasmania.

carol reilly
****
TAS 7008

Reis, Edward – Sunday, 14 August 2022 – 18:21:57

Subject	Stop Origin
From	Edward Reis
Sent	8/14/2022 6:21:57 PM

NT Department of Environment, Parks and Water Security

In the interests of preserving the integrity of your department's name, please prohibit all attempts by Origin and any other interests, to frack and destroy environment, parks and water security in the Northern Territory.

Thank you.

Edward Reis
****
NSW 2042

Remington, Andrew – Friday, 12 August 2022 – 13:38:14

Subject	Stop Origins fracking plans
From	Andrew Remington
Sent	8/12/2022 1:38:14 PM

Northern Territory Department of Environment Parks and Water Security

Dear Sir/Madam

It concerns me greatly that approval is in place in support of Origin‘s plans for fracking in the Northern Territory.

I would implore you to reverse this decision in light of the strongly expressed opposition from indigenous and environmental groups throughout this country, and whose concerns must take precedent over short sighted, temporary economic gain.

Invest in the future of this country with a vision of maturity and real responsibility, and stop Origin’s fracking plans in the Northern Territory.

Andrew Remington
****
QLD 4881

Retallick, Julie – Sunday, 14 August 2022 – 19:03:45

Subject	Say no to fracking
From	Julie Retallick
Sent	8/14/2022 7:03:45 PM

NT Dept of Environment, Parks and water

Fracking needs to stop and further applications.

The local people need to be listened to.

Fracking uses a large amount of water and risks contamination of waterways.

Fracking releases a large amount of methane which is an issue with regards to climate change.

Have the courage to stand up for what is right for the people, not large, dirty, greedy corporations.

Julie Retallick

Julie Retallick
****
NSW 2539

Reuter, Emily – Friday, 12 August 2022 – 21:06:30

Subject	Stop fracking in the NT
From	Emily Reuter
Sent	8/12/2022 9:06:30 PM

Origin enery's 12 fracking sites in the NT threatens the biodiversity needed for our survival. It is bad enough that Australia's gas has been sold overseas resulting in higher costs, Origin want us to pay with additional land and water destruction. This is an insult to all Australians.
Regards,
Emily

Emily Reuter
****
VIC 3550

Reuter, Marion – Friday, 12 August 2022 – 17:25:24

Subject	Fracking is Wrecking
From	Marion Reuter
Sent	8/12/2022 5:25:24 PM

Fracking for CSG means wrecking the environment. This includes above and below the surface. Below, the Great Artesian Basin will be depleted, which means a depletion above ground, which translates into lower water levels for farmers and their animals. The water taken from the GAB becomes too toxic to use after fracking chemicals have been mixed with it.
If the NT government is approving the plans to go ahead with fracking, it will be responsible for severe environmental damage, which in other circumstances would be called 'vandalism'. In this case it is environmental vandalism.
People who commit vandalism usually pay a price. This should also be applied to anyone, or any institution in equal measures. That would be egalitarianism. Since the people are against fracking, they also have the democratic right to be considered.
No fracking of the NT. Please.
Marion Reuter

Marion Reuter
****
NSW 2460

Reynolds, Denise – Thursday, 11 August 2022 – 18:25:36

Subject	Origin's attempt to Frack
From	Denise Reynolds
Sent	8/11/2022 6:25:36 PM

To Northern Territory Department of environment
This situation of the importance to OUR environment NEEDS to be assessed by a body who can advice
It seems to be only the ones who will make the billions that have the VOICE

Denise Reynolds
****
VIC 3858

Rich, Bob – Friday, 12 August 2022 – 17:41:36

Subject	There must be no new carbon extraction projects
From	Bob Rich
Sent	8/12/2022 5:41:36 PM

Dear NT Dept of Environment, Parks and Water Security,
Experience in other countries has shown fracking to be the worst way to mine fossil methane ("natural gas"). I have seen photos of tap water you can ignite. Terrible chemicals pollute ground water, harming all of nature.
And there are no profits, no benefits on a dead planet. It is official: we are in the 6th extinction event of Earth. The UN, our Pacific neighbours whose lands are already devastated by the climate catastrophe, the ICCC (meaning all climatologists) all call for rapid transition from fossil carbon use.
In the circumstances, I call on you to ban all new carbon extraction projects in the NT.
Sincerely,
Bob Rich, PhD

Bob Rich
****
VIC 3777

Rich, Jolanda – Saturday, 13 August 2022 – 20:07:14

Subject	Stop Fracking !!!!!
From	Jolanda Rich
Sent	8/13/2022 8:07:14 PM

You have no right to allow Origin or any other company to frack our land and disturb the groundwater and make climate change more urgent than it is already .This is So close to Suicide you don't want the last act to be yours?? THINK WELL JOLANDA RICH

Jolanda Rich
****
VIC 3777

Richard, Professor – Friday, 12 August 2022 – 20:29:56

Subject	Please disallow Origin's fracking plans.
From	Professor Richard
Sent	8/12/2022 8:29:56 PM

Please listen to the science that states " no new coal and gas mining " because that will increase global warming, and is not necessary for Australia's needs as Australia transitions to renewables .
Global warming is already adversely affecting our environment.
Please listen to our First Nations people because fracking is likely to contaminate their water and damage their cultural sites.
Refusal of fracking requests will increase our chance of having a more lovable future environment.
Yours sincerely
Richard Ruffin

Professor Richard
****
SA 5000

Richards, Peter – Thursday, 11 August 2022 – 13:21:05

Subject	NT Government stop Origin's reckless fracking plans
From	Peter Richards
Sent	8/11/2022 1:21:05 PM

To Northern Territory Department of Environment, Parks and Water,

Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Fracking is not a good and safe way for the land and environment. It destroys too much, as it has been proven over and over again and you only need to check out what this process has done in the USA to know that it is destructive to the environment.

Please say NO to more Fracking in our country.

Peter Richards
****
NSW 2328

Richardson, Beverly – Friday, 12 August 2022 – 09:15:03

Subject	Stop Origins fracking plans
From	Beverly Richardson
Sent	8/12/2022 9:15:03 AM

To who it concerns
I am writing this submission as an Australian who cares deeply about our environment, everyone who knows what fracking does, would not want such a thing in their country. One only has to look at America, to see what it has done and the damage it does, not only to the country but the precious water, we are the dryest country, our water is even more precious. There you can light drinking water with flame. Should such a thing happen to us and the people to whom this land belongs it would be devastating, they do not even have a plan on what to do with contaminated water, ship it into state ,are they kidding. To where? They need so much water to frack, we all ready have mining damageing our water under the ground, with no thought about destroying our Great Artesian Basin. It needs to be stopped for our future generations, we must take responsibility for the damage we do.Please regect Origins EMP, and stop the fracking, so appreciative.
Thank you for taking the time to read this submission, and too for the traditional owners, Australia is worth more than just money in someone's pocket. It has to stop somewhere. We really do not want to end up like America, with so much distruction of our water and the environment. For our future. Please stop the fracking!
Sincerely
Beverly Richardson
****

Beverly Richardson
****
WA 6172

Richardson, Duncan – Friday, 12 August 2022 – 14:54:12

Subject	Stop Fracking
From	Duncan Richardson
Sent	8/12/2022 2:54:12 PM

As a concerned citizen of this country, I am appalled to hear that the dangerous and destructive practice of fracking is being considered in the NT.
If the you approve these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Duncan Richardson
****
QLD 4075

Richardson, Nadine – Friday, 12 August 2022 – 15:06:01

Subject	Stop origins Fracking plans
From	Nadine Richardson
Sent	8/12/2022 3:06:01 PM

No more fracking !

Nadine Richardson
****
NSW 2026

Richardson, Peter – Saturday, 13 August 2022 – 10:27:25

Subject	Why are we still looking at fracking?
From	Peter Richardson
Sent	8/13/2022 10:27:25 AM

Please put a stop to fracking by Origin and others in your relatively unspoiled environment.

While I am not a resident of the NT, I am a very concerned Australian with regard to our environment and its future.

Surely it is time to move on from dangerous, outdated and questionable techniques (both environmentally and economically), especially considering the objections of our First Nations people and Traditional Land Owners who are supported by a significant proportion of the total population.

Far better to invest in clean energy technology to stay relevant as a power supplier, and look at the renewable resources available in the same area/s!

Peter Richardson
****
NSW 2066

Richter, Frederic – Thursday, 11 August 2022 – 16:24:41

Subject	Stop Origin's Plans to Drill Fracking Wells.
From	Frederic Richter
Sent	8/11/2022 4:24:41 PM

As an Australian Citizen living in North Queensland, I am very concerned about requests for approval from Origin to drill exploratory fracking wells anywhere in Australia without proper approvals and safety measures, and particularly at this stage the twelve wells planned at Amungee Mungee Pastoral Station, Daly Waters, in the Northern Territory.
In an area where water is of vital importance, this will require 430 million litres of water to drill these wells, and guarantees 90 million litres of waste water, with no plans as to how to safely dispose of it, and no guarantee that the fracking process will not ruin the precious underground water by pollution by accidentally released gas or other contaminants.
I understand that they have not implemented all the 135 requirement of the 2018 Pepper Inquiry into the possible adverse effects of fracking on the environment, water, climate and country. I personally think any adverse effects on the water supply would be unacceptable for local inhabitants, farmers, station owners, first nations people and visitors. Has Origin produced all necessary information and is there proof that the underground water supply can sustain the loss of water required for this development without adversely affecting the water supply of all existing users?

Frederic Richter
****
QLD 4811

Riedl, Regina – Monday, 15 August 2022 – 09:26:30

Subject	Stop Origin's fracking in the NT
From	Regina Eberle Riedl
Sent	8/15/2022 9:26:30 AM

Dear Northern Territories Department of Environment, Parks and Water security,
Please do not allow Origin to open any of its 12 new fracking drills in the Northern Territory. This is such an unnecessary risk to groundwater. Surely we couldn't let this go ahead. It is also disrespectful to our indigenous cultural heritage and another insult to our very real climate concerns. I have already cancelled all of the accounts I have or manage for origin. I would find this very shameful were it to go ahead.
Please block this from happening,
Best regards,
Regina Eberle Riedl

Regina Eberle Riedl
****
NSW 2257

Riley, Alan – Saturday, 13 August 2022 – 07:18:45

Subject	Stop Ecocide
From	Alan Riley
Sent	8/13/2022 7:18:45 AM

When is our elected Government going to realise that their action to side with corporations that destroy the lives & ecosystem is actually a crime..?

Alan Riley
****
NSW 2170

Ripper, Margie – Sunday, 14 August 2022 – 14:27:51

Subject	Don't allow more any more fracking
From	Margie Ripper
Sent	8/14/2022 2:27:51 PM

The time has passed for reliance on oil and gas.
The time has passed for ignoring or riding roughshod over aboriginal land.
The time has come for governments to act in the interests of the people, the future and sustainable, renewable energy NOT in the interests of exploration companies such as Origin

Margie Ripper
****
SA 5050

Ritchie, Olly – Sunday, 14 August 2022 – 14:00:10

Subject	Stop Origin's fracking plans
From	Olly Ritchie
Sent	8/14/2022 2:00:10 PM

We don't want our climate, our water system, our native lands, and our country overall destroyed for something as trivial as energy, when there are so many renewable options. Why not consider those instead, and instead of temporarily profiting off of a business venture, profit continuously as our country continues to survive.

Olly Ritchie
****
NSW 2068

Rivers, Protect – Monday, 15 August 2022 – 13:50:00

Subject	Origin EMP
From	Protect Big Rivers
Sent	8/15/2022 1:50:00 PM

Please find EMP for Origin Wells attached on behalf of Protect Big Rivers.

Attached Documents

Protect Big Rivers
PO Box 2140
Katherine, NT, 0850

Submission:

Origin 12 New Frack Wells, Amungee and Shenandoah East Stations, EP98 and EP76

Protect Big Rivers Group (PBR) is a community-based organisation, formed in April 2022, in response to the increased industrialisation of our fragile Big Rivers ecosystem. The group has the primary objectives of preserving our water, climate, and biodiversity for future generations.

CUMULATIVE IMPACTS AND EPA REFERRAL

To date our catchments have experienced the drilling, or approval of drilling, of 29 wells since the lifting of the moratorium on fracking in the NT. These works have led to a documented 1.25 million tonnes of scope 1 emissions, using over 2billion litres of headwater to our big rivers.

Fracking of the "Beetaloo" threatens the sustainability and liveability of our region. This Origin EMP represents the addition of the **single biggest number of deep shale wells drilled in the NT** to date. With the final approval for an additional seven wells of Tamboran Resources our region is set to have 19 exploratory wells drilled in the immediate future. PBR is simultaneously writing a submission for a proposed water allocation to mine an immediate 9000 tonnes of frac sand, of a total of 110million tonnes required, using 1.2 GL of water p.a. **The Pepper Inquiry specifically warned of the potential for cumulative damage from exploration creep, yet this is exactly what this EMP represents.** For this reason, PBR requests that Origin's **EMP is referred to the EPA, under the Environment Protection Act, for full assessment.**

CLIMATE, EMMISONS AND LIVEABLITY

In 2004 the CSIRO predicted Katherine may experience 35 days over 40 degrees by 2030. In 2019 Katherine experienced 54 days over 40 degrees. Surface water dried up, creeks stopped flowing, water warmed, and big trees, fish and birds died across our landscape. Cattle starved. Katherine township experienced a near miss with a black water event in our river, and public servants were mobilised to hand deliver potable water to every household in town. Three of our last four wet seasons have failed. Many groundwater dependant ecosystems have not recovered.

Old people remember the late 1950's where the Roper and Katherine Rivers stopped flowing and Ngukurr was evacuated due to saltwater backflow and intrusion into the aquifer. Massive dust storms billowed but brought no rain though 2019. The mineral content of the water supplies at Jilkminggan, Ngukurr and Numbulwar, and probably many more communities, exceeded safe levels. November 2019 really was like living through an

Armageddon event. Many valued members of our region began their plans to leave the NT during this time. They have since sold up and left, a direct result of climate.

PBR members recognise how small our buffer of survivability is in this region. The **State of the Environment Report 2021** noted both the Ooloo, and Tindall Limestone Aquifers were at their lowest in 20 years of records. Our Northern Tropical Savannah and Arid Regions were declared **'ecosystems in collapse.'** These are not just words to the people of Protect Big Rivers; this is our lived reality.

The **IPPC Report of 2022** warned that the world was set to reach the 1.5-degree temperature rise within the next two decades, and that to limit warming, we must reach **peak emissions by 2025**. The report continued, that **'only the most drastic cuts in carbon emissions from now would help prevent environmental disaster'**. Opening the Beetaloo Basin given these dire warnings is a dangerous folly. Our regional economy will struggle to sustain a 1.5-degree temperature rise.

In 2017, as Justice Pepper was finalising her report, Australia had not yet experienced the extreme fire, drought, and flood events of the last five years. However, the Pepper Inquiry still saw fit to include **Recommendation 9.8**: emissions must be fully offset so that there is no net increase in the lifecycle greenhouse gas emissions emitted in Australia from any onshore shale gas produced in the NT.

Origins proposal alone, will result in **535,651 tonnes of greenhouse gas emissions (GHG).** This is nearly double the annual GHG emissions of Katherine. Furthermore, if Origin is granted production rights, and moves the gas to McArthur River mine as proposed, the emissions **increase to 2 million tonnes of CO2-e** when combustion is considered. And this is just for 12 exploration wells.

The Government, under no circumstance, should see it fit to allow Origin to enter production agreements with this gas produced from exploration wells prior to full and proper implementation of the Pepper Inquiry as promised.

WATER AND ASSOCIATED INDUSTRY

Whilst partially approved under licence the **water extraction** related to this project is **430ML**. Origins water licence on this country expires in January 2024, with a total of 350ML possible under that allocation. Therefore, we note Origin does not have allocation of the full requirement to complete this drilling project and are making assumption re future water allocation approvals.

There is also a water allocation licence application currently out for comment. Territory sands are wanting **1.2billion litres of water pa for washing the 'frac sand',** for use down these wells. Water use attached to these projects should not be siloed. Water used in these sites flows to the site of ecological significance, Lake Woods and then on to Rainbow and Bitter Springs of Mataranka. They support the flow of the Roper River through the dry season. The scientific **SREBA studies remain incomplete**. These water licences were granted using **arid zone contingency rules, against Pepper recommendations**. Additionally, **water**

allocation committees have not been established for the region, as per Pepper Recommendations, **nor is a Water Allocation Plan in place**. Whilst the system may be able to buffer the current water allocations, it is difficult to see how water can be granted to these projects in a sustainable fashion over time. **If the region does not have a sustainable yield that supports this industry, and its affiliated industries, for the economies of scale required for profitability into the future, the project should not begin at all** as every hole is doing damage and every drop of water cannot be replaced.

TOXICOLOGY

This EMP also describes **toxic wastewater production totalling 90 million litres.** PBR does not believe the use of **open evaporative ponds** for produced water is acceptable in these arid regions. The **enclosed tanks recommended in the Pepper Report** are far safer for the environment and Origin should be treating this wastewater on site as they proposed during Pepper Inquiry hearings. We would request the safety of these open ponds are reconsidered.

Many of the chemicals used in drilling and fracking, or during post frack production are not readily biodegradable. Many bioaccumulate and are toxic if ingested. The combinations and interactions of chemicals both underground and in these ponds make toxicity harder to predict. The **risk assessments within the EMP do not include pathways of potential harm via ingestion bats, birds, insects, amphibians and reptiles that can gain access to these open ponds**. Origins statement that the salinity levels will put animals off drinking from these ponds is notional at best in this extremely arid environment, particularly where surface water is depleted due to ongoing drought. Access to these ponds is of even greater concern to PBR given **15 threatened species may be impacted by this project.**

MONITORING

PBR also notes significant deviation from Pepper Recommendations in relation to water monitoring. Origin is intending to experiment with well spacing on each pad. Given these wells perforate the highly saline Moroak Aquifer, high level continuous monitoring is essential. We are yet to see Pepper Inquiry 7.11 fully implemented on any well pad in the NT. The 2019/20 salinity issue/sensor error incident at Tanumbirini highlights the importance of this. **Origin has omitted the telemetry real time Pepper monitoring requirements from their EMP, suggesting that quarterly sampling is adequate. This is completely unsatisfactory to members of Protect Big Rivers. Our livelihoods depend on clean potable water. Pepper Recommendation 7.11 must be implemented in full, including the use of continuous telemetry and multi-layer sensors in monitoring bores both on the well pad and other positioned in the direction of aquifer flow.** Given we are now 5 years post Pepper it is also time to better consider if a broader suite of telemetry data is also available as per recommendation 7.11.

For full transparency **PBR requests a minimum of a single real time graph that demonstrates a timeline of activity at the well, overlayed with salinity, methane and other required water quality measures including depth to water. There should be no delay in depth to water measurements post hydraulic fracturing, as is proposed in the Origin**

EMP. It is unclear if the water shifts occurring in the aquifers due to fracturing would influence stygofauna survival in these systems. Measuring the speed of any water shifts may be a useful predictor of that.

WET SEASON DRILLING AND FRACKING

In relation to water security, Origins proposal to drill and frack wells during the wet season unduly ads to the risk associated with fracking in the NT. Increasingly our region's weather patterns, are becoming less predictable. **A dry season program of drilling and fracking is all that should ever be considered appropriate. Managing flowback and high flow produced water during a cyclone event could never be considered best practice.** The risks associated with flood water site damage and inappropriate disposal of wastewater during flood events also concerns PBR members.

REFERRAL TO EPA

PBR does not want to see our region become a sacrifice zone. As such we request this EMP is seen for what it is, an attempt to race to production prior to full and proper implementation of the 135 Pepper Recommendations. **The cumulative impacts of fracking our region are now becoming clearer and have the potential to have a significant on the environment, including the dry season flows of the Roper and Katherine Daly systems as well as the ecologically significant Lake Woods. This project therefore requires immediate referral to EPA for full assessment.**

Thanking you in anticipation

Dr Samantha Phelan
Protect Big Rivers
protectbigrivers@gmail.com
0428818244

Rizzo, Davide – Saturday, 13 August 2022 – 16:48:16

Subject	Origin's fracking plans are a disaster for Indigenous people and the Environment
From	Davide Rizzo
Sent	8/13/2022 4:48:16 PM

Dear Northern Territory Department of Environment, Parks and Water Security

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT.

Now, they've lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into their EMP, it's even worse…

They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

But right now, Origin wants to go ahead with fracking without all recommendations implemented.

For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Davide Rizzo
****
VIC 3095

Robb, Paul – Sunday, 14 August 2022 – 21:08:27

Subject	Origins plan to Frack in NT
From	Paul Robb
Sent	8/14/2022 9:08:27 PM

NT Dept. Environment Parks Water & Security,

I am writing to express my concern and opposition to Origin Energy's plan to frack in the NT.

There are copious reports and studies available which identify the risks of fracking to the natural environment.

It is not worth risking fragile, precious and valuable water sources for short term profits for a dirty fossil fuel which is not needed. Clever well paid and well trained lobbyists will attempt to convince gullible people that more gas is required. There is NO evidence to prove this as a fact.

Fracking is an unnecessary high risk fossil fuel extracting process which is banned in many countries due to the irreparable damage it has caused.

Please take into consideration lessons learnt from the negative impact of fracking which has occurred in other locations and the fact that we do not need gas derived from fracking.

The risks are too great.
All of us need to protect our ground water sources for future generations to use wisely.

Thank you
Paul Robb

Paul Robb
****
NSW 2795

Roberts, Anne – Thursday, 11 August 2022 – 12:26:09

Subject	Stop origen
From	Anne Roberts
Sent	8/11/2022 12:26:09 PM

Leave them alone stup trashing and killing our earth

Anne Roberts
****
VIC 3143

Roberts, David – Saturday, 13 August 2022 – 17:12:49

Subject	davidunderwater@gmail.com
From	David Roberts
Sent	8/13/2022 5:12:49 PM

To Whom It May Concern,
I am an environmental scientist with grave concerns for Origins fracking plans. In addition to this I am embarrassed that whilst we have progressed so far as a country to respect the traditional owners we continue to treat their important places with contempt.
Please reject Origins EMP.
Regards
David

David Roberts
****
NSW 2103

Roberts, Ro – Saturday, 13 August 2022 – 15:04:48

Subject	rosalyn.roberts@live.vu.edu.au
From	Ro Roberts
Sent	8/13/2022 3:04:48 PM

This submission is written by Dr Ro Roberts from Fairfield, Victoria to call on the government to stop the 12 new fracking drills in the NT proposed by Origin.
Fracking destroys the environment by interfering with water, land and other natural resources. The issue that concerns me most is the damage it does to the cultural significance of the land, our ability to protect this oldest of heritages and respect Aboriginal culture and lore and sacred sites. We are all custodians of the oldest continuous civilisation on the earth. This is a privilege and one that must be unfailingly respected. As a non-Aboriginal citizen, I honour the Traditional Owners who have fought so hard to maintain the integrity of this land and the customs that have preserved it for so long. Fracking threatens irreversible damage to country in the NT.
Do we want a future where our most valuable natural resources are sold off to create profits for staff and shareholders of Origin?
I call on the Department to reject Origin's EMP.

Ro Roberts
****
VIC 3078

Robertsgoss, Tanya – Friday, 12 August 2022 – 09:32:58

Subject	Please Say No To Fracking Traditional Owners Land
From	Tanya Robertsgoss
Sent	8/12/2022 9:32:58 AM

Dear Northern Territory Environment, Parks and Water Security,
I write asking you to prioritise the health and wellbeing of The Traditional Owners of Amungee Mungee Pastoral Station by ceasing Origins plans to explore and subsequently FRACK in that area.
Origin has a history of not fulfilling all of its environmental obligations, re: The Pepper Inquiry.
Origin hasn't accounted for or addressed the full climate impacts this disastrous exploration and consequent action would cause to the environment and the Traditional Owners as well as Australian citizens.
Water has become a precious resource, which will be seriously jeopardized if Origin is allowed to follow through with its destructive plan.
Please don't approve this invasive and destructive plan undertaken by Origin, the precedent that you would be setting for similar further future enterprises would be unthinkable to the health of the climate.
Please don't put profit above the health and wellbeing of the people.
The climate emergency is undeniable now, please don't make a decision that will perpetuate and increase damage to the Australian environment, you don't want this on your conscience.
Pease be a supporter for positive change for The Traditional Owners and the Environment by not allowing Origins Fracking Plans to be approved.
Please reject Origins EMP.
Yours sincerely
Tanya Roberts-Goss

Tanya RobertsGoss
****
NSW 2539

Robieson, Kathleen – Saturday, 13 August 2022 – 17:03:18

Subject	Please stop Origin's fracking plans!
From	Kathleen Robieson
Sent	8/13/2022 5:03:18 PM

Att:
Northern Territory
Dept.of Environment,Parks
and Water Security

Dear Sir/Madam,
It has come to my attention that you are considering allowing Origin to commence drilling and fracking at a frightening number of exploration wells.
To me this is beyond belief. The damage to country, the huge amount of water wasted in the fracking process and the damage to the environment is unconscionable! Are you not aware of the damage that fracking has done to water tables in other countries such as the United States?
Also this will help to destroy any chance of protecting us and indeed the world from further escalating of global warming and pollution.
Please I beg you not to make the grave error of allowing this to happen.
Yours sincerely
Kathleen Robieson

Kathleen Robieson
****
QLD 4802

Robinson, Angela – Saturday, 13 August 2022 – 07:54:07

Subject	Fracking in the NT
From	Angela Robinson
Sent	8/13/2022 7:54:07 AM

To the Northern Territory Department of the Environment,

I am a concerned Australian citizen.

I travelled the NT last year and found it to be absolutely stunning. I cannot imagine why this country would be needlessly destroyed by fracking just for a large corporation to make huge profits.

I hope your organisation realises the harm that fracking will do and will reject Origin's EMP.

Thank you
Angela Robinson

Angela Robinson
****
VIC 3021

Robinson, Ann-Marie – Sunday, 14 August 2022 – 07:40:34

Subject	Stop Origins Fracking Plans
From	Ann-Marie Robinson
Sent	8/14/2022 7:40:34 AM

Why can't governments just do the right thing....stop fracking.....when will it not be about money??

ann-marie robinson
****
NSW 2643

Robinson, Brian – Saturday, 13 August 2022 – 15:26:51

Subject	fracking .
From	Brian Robinson
Sent	8/13/2022 3:26:51 PM

No more destruction of these and any other native or non native lands !

brian robinson
****
WA 6054

Robinson, Greg – Friday, 12 August 2022 – 14:04:16

Subject	You cannot possibly be serious.
From	Greg Robinson
Sent	8/12/2022 2:04:16 PM

It would be absolute madness to allow hydraulic fracturing in the Norther Territory. Make sure you understand that you will be accountable for the decision for perpetuity. Fracking is an unmitigated disaster. If you learn one tiny thing from First Nations people, listen to them on this.

Greg Robinson
****
NSW 2620

Robinson, Helen – Sunday, 14 August 2022 – 16:06:42

Subject	Origin Fracking
From	Helen Robinson
Sent	8/14/2022 4:06:42 PM

Stop the FRACKING - NOW

Helen Robinson
****
NSW 2207

Robinson, Richard – Sunday, 14 August 2022 – 19:03:21

Subject	Stop them destroying the country !
From	Richard Robinson
Sent	8/14/2022 7:03:21 PM

The country should be left alone for ever to protect all the fragile wildlife & native people to enjoy in safety ! yours Sincerely Richard Robinson Para Vista South Australia 5093

Richard Robinson
****
SA 5093

Robinson, Shazar – Thursday, 11 August 2022 – 22:10:01

Subject	shazar.robinson@gmail.com
From	Shazar Robinson
Sent	8/11/2022 10:10:01 PM

Fracking is not acceptable in any shape or form. I am absolutely opposed to this destructive and unsustainable method of trying to find fossil fuels.. do not destroy our water and our climate and our country for these unsustainable and toxic aims.

Shazar Robinson
****
WA 6157

Robyn, Wendy – Friday, 12 August 2022 – 19:01:20

Subject	fracking in the NT
From	Wendy Robyn
Sent	8/12/2022 7:01:20 PM

Hello,
My name is Wendy Robyn and I live in Perth. I am writing to comment on the proposal to allow Origin to open new fracking drills in the Territory. This is a bad idea and should be opposed. Here's why:
1. All new gas projects undermine crucial efforts to reduce carbon emissions and dangerous global heating. Governments should support and drive demand for safe, renewable energy because this is what the citizens of Australia want.
2. Traditional Owners are opposed to the project. It is shameful how Indigenous voices continue to be ignored by big business and governments. We must do better.
3. Fracking threatens the health of country and water supplies.
4. Origin is not an ethical operator. They are claiming the proposed wells are exploratory while planning to sell gas from them, and their current operations fail to meet the conditions that were specified in giving them permission to drill existing wells.
The NT government must remember who & what it is there to serve and that is the people and land of the Territory NOT Origin or any other corporation. Please, reject this application.
Yours faithfully,
Wendy Robyn

Wendy Robyn
****
WA 6022

Roche, Colleen – Sunday, 14 August 2022 – 17:27:23

Subject	Stop Origin's fracking plans
From	Colleen Roche
Sent	8/14/2022 5:27:23 PM

Water is required in the fracking process, a process which would cantaminate and adversely risk the waterways, land, animals and people, not to mention the fragile life that springs from wet seasons, the flora. These ecosystems and the arable land which support them would be detrimentally impacted, if fracking was allowed to go ahead. The landscape would lay waste, being scarred irrevocably, and poison and gas would be released in unknowable places, before even being piped anywhere. This would indeed be an environmental catastrophe. There's already too much CO 2 and methane in the atmosphere, and when you burn gas it's residues leak out in homes, across communities and causes the global warming catastrophic weather events like fire, flood, drought, subsidence, coral bleaching, rising sea temperatures, sea acidification etc; etc and we must stop fracking by keeping the gas safely underground and not risk our indigenous heritage.
Colleen Roche

Colleen Roche
****
NSW 2783

Roche, Peter – Sunday, 14 August 2022 – 14:26:35

Subject	Stop Origin's Franking Plans
From	Peter Roche
Sent	8/14/2022 2:26:35 PM

I believe its high time that the wishes of the First Australians were listened to. They understand and appreciate the intricacies of the landscape far more than we do.
Fracking comes with a lot of long term unknowns. It's a bit like smoking.....the bad effects are cumulative!
Surely governments are trusted with passing on our country to the coming generations in a better state than they received it!
Tread carefully and remember the Precautionary Principle!

Peter Roche
****
QLD 4121

Roebeck, Ainsley – Saturday, 13 August 2022 – 18:19:00

Subject	Stop origin fracking plans
From	Ainsley Roebeck
Sent	8/13/2022 6:19:00 PM

To Northern Territory department of Environmental Parks and water security

I'm writing to voice my concern about fracking that definitely damage and ruins our underground fresh water system, once it's damage, there is no way it can be remedied or fix the damage done. So I really believe fracking in the Northern Territory should NOT allowed to go ahead.

Ainsley

Ainsley Roebeck
****
QLD 4557

Roger, Emma – Saturday, 13 August 2022 – 12:27:01

Subject	STOP Fracking Northern Territory
From	Emma Roger
Sent	8/13/2022 12:27:01 PM

To Northern Territory Department of Environment, Parks & Water Security,

Our land in Australia and on the earth is precious and is designed to be support us with naturally occurring resources... not through invasive man made intervention.

This submission is to order you to STOP the plans to Frack in the Northern Territory proposed by Origin. This is an irresponsible and potentially damaging decision that could destroy our precious land & country, water sources and - already disturbed - climate.

Importantly, this is not your decision to make on behalf of Australians ... who are you to make this call? You do not have this right.

Open your eyes, WAKE UP and really see what is going on with our climate, our polluted water and land... and subsequent global CRISIS that is affecting our climate, our earth and our health.

Open your eyes to the alternative possibilities to generate energy naturally, organically and safely. Solar, wind, water and other natural energy sources are the way of the future.

This is not a plea, it is an order to STOP and REJECT these plans to frack in the NT for the sake of our country, our planet and our future generations.

Yours Sincerely,

Emma L Roger

Emma Roger
****
NSW 2481

Rogers, Adrian – Friday, 12 August 2022 – 14:06:54

Subject	Stop Origin fracking
From	Adrian Rogers
Sent	8/12/2022 2:06:54 PM

Any new fracking wells in the Northern Territory--threatening water, cultural heritage, and climate would be acts of desecration and vandalism of the worst possible kind, It would be destruction, no less. Moreover the deliberate or careless ignoring of a people's culture is virtually criminal.

So, above all, please do not--under any circumstances approve these plans.

Adrian Rogers
****
SA 5118

Rogers, Greg – Saturday, 13 August 2022 – 15:52:56

Subject	stop origins fracking
From	Greg Rogers
Sent	8/13/2022 3:52:56 PM

stop fracking ,its potentially the most devastating way to extract gas whichcan destroy a landscape and environment. pay attention , the election showed the voters dont want these activities...you will be held to account!

Greg Rogers
****
SA 5710

Rogers, Leith – Sunday, 14 August 2022 – 14:05:06

Subject	Please don't frack
From	Leith Rogers
Sent	8/14/2022 2:05:06 PM

Northern Territory Department for Conservation and Water Security,
Please resist the short term advantages of fracking. Part of Departmental title concerns water security, something that will be become even more important as population and climate change pressures increase. Increased pressure on and the chance of pollution of the underground water supplies is a terrifying prospect.
Water is life. Please do nothing to put it at risk,
Leith Rogers

Leith Rogers
****
QLD 4220

Ronaldson, Philip – Saturday, 13 August 2022 – 21:24:20

Subject	Stop ALL fracking projects.
From	Philip Ronaldson
Sent	8/13/2022 9:24:20 PM

To: The Northern Territory Department of Environment and Heritage.
I am appalled that a fossil- fuel based company is being considered to implement a fracking project in the Northern Territory. I am not convinced that this technology will not seriously affect adversely the Great Artesian Basin and other subterranean water supplies throughout the Northern Territory. So much of the NT's income depends on businesses that rely on the Artesian Basin water supply - once it has been breached it will not be recoverable.
The project will also interfere with the Aboriginal Dreamtime links to the country, heritage links dating back over 40,000 years. Once that connection is broken there will be next to no tourism worth doing and no-one to help us white-fellas cope with a significantly less productive country.
Considering that Pacific Island nations have been concerned about the adverse effects from man-made climate change since the late 1990s, about which few Australian Governments have shown any concern since the FIG Conference at Sydney in 2000, it is inconceivable that a State or Territory Government is considering expanding fossil-fuel industry in this more enlightened and experiential epoch in Australia's history.
I seriously urge you to deny ALL fracking and other fossil-fuel projects immediately and focus more if not fully on renewable-energy initiatives and projects. Renewable-energy projects will provide far more long-term employment opportunities throughout the Northern Territory than the proposed project(s).
Yours sincerely
Dr Phil Ronaldson PhD Grad.Dip.LDM B.App.Sc. Surveying
Former lecturer in the School of Civil and Environmental Engineering, UWS.

Philip Ronaldson
****
NSW 2007

Roodt, Vernon – Thursday, 11 August 2022 – 19:16:55

Subject	Stop Fracking
From	Vernon Roodt
Sent	8/11/2022 7:16:55 PM

Will you choose $$ over healing the planet?

Vernon Roodt
****
NSW 2153

Rose, Astara – Sunday, 14 August 2022 – 16:36:35

Subject	Origins Fracking plans in the Northern Territory
From	Astara Rose
Sent	8/14/2022 4:36:35 PM

Your irresponsible proposals to frack land in the Northern Territory is appalling. To do this to our Earth which is struggling with the Brutal and senseless impact of human beings in so many ways is disgusting and absolutely short sighted. The Earth is our sacred home, our foundation to all life. How dare you assume you greedy business people that you have to right to wantonly destroy. Have you learnt nothing at all from the effect of fracking in other countries, America in particular. Have the intelligence to study the long term impacts of fracking before it's too late and you leave the incredible North a ruin. And for gods sake open your cold political and business minds to a real vision for the future that also has heart.

Astara Rose
****
VIC 3971

Rose, Jann-Angeline – Saturday, 13 August 2022 – 19:34:15

Subject	Stop Origin's Fracking Plans
From	Jann-Angeline Rose
Sent	8/13/2022 7:34:15 PM

To Northern Territory Department of Environment, Parks and Water:

Please do your utmost to ensure that Origin is stopped from carrying out any more fracking in the Northern Territory, due to the significant threat to the cultural heritage, water and climate aspects of this region should these projects go ahead.
Thank you.

Jann-Angeline Rose
****
WA 6018

Rose, Meredith – Friday, 12 August 2022 – 16:08:34

Subject	Stop Origin's fracking plans
From	Meredith Rose
Sent	8/12/2022 4:08:34 PM

To the Northern Territory Department of Environment, Parks and Water Security:

I write from the Otway Ranges in Victoria to ask you to reject the plans by Origin Energy to open new fracking drills in the Northern Territory. To continue down the path of burning fossil fuels is to ensure a catastrophic future not just for residents of the NT, but for all of us: more bushfires, more extreme heatwaves, more floods, fewer fauna and flora species, less water. Most importantly, these plans ignore the wishes of the Aboriginal peoples on whose land they would, if approved, be carried out. The entire proposal is disastrous and the only correct response is to reject it.

Thank you for considering this submission.
Sincerely
Meredith Rose

Meredith Rose
****
VIC 3237

Rose, Patricia – Sunday, 14 August 2022 – 17:48:19

Subject	Stop Origin's Fracking Plans
From	Patricia Rose
Sent	8/14/2022 5:48:19 PM

AT this critical juncture in our climate history and politics you must support the move to transitioning to renewals and not allow Origin to open ANY new fracking drills in the Northern Territory. They threaten everything a transition is trying to achieve, lowering emissions, helping avoid climate catastrophe, and of course water, cultural and heritage of Traditional Owners.

We must all be prepared to make some sacrifices for the sake of the planet and future generations and Origin who has made plenty of profits from fossil fuels must accept it cannot go on and the Northern Territory Government needs to ensure they understand their responsibilities and you understand yours to future generations.

Please do not allow these new fracking drills Origin wants.
Sincerely,

Patricia Rose
****
NSW 2060

Roskam, Jacob – Thursday, 11 August 2022 – 17:46:57

Subject	Abolish ORIGIN fracking
From	Jacob Roskam
Sent	8/11/2022 5:46:57 PM

How can it be that a government to got eected to look after people allows a short term profit from coal seam gas fracking over long term water security.
Please convince me that this is OK - but you who reads this KNOWS it is not OK , you are just part of a machine or am I wrong and you are a human who reads this and has the courage to stand up to your boss and say: 'Hey it is my planet you are wrecking/fracking' get your hands off it now.'

Wishing you a lot of strength : Jacob

Jacob Roskam
****
NSW 2828

Ross, Colleen – Sunday, 14 August 2022 – 12:11:37

Subject	kinross10@bigpond.com
From	Colleen Ross
Sent	8/14/2022 12:11:37 PM

Dear Minister,
My name is Colleen Ross from Drysdale Victoria. I am a retired nurse having worked nearly 50 years. My concern is about fracking drills and their effect on the environment. If the NT Government approve the plans to open 12 new fracking drills it will threaten water, cultural heritage and our climate. At this critical stage of Earth's need we need to only invest in and approve renewable energy explorations and plans.
It is imperative for our future generations to act now. We are in dire straits and well behind what is needed in the reversal of climate change, but we do not need to add any more fossil fuels into the arena.
Thanking you

Colleen Ross
****
VIC 3222

Ross, Estelle – Sunday, 14 August 2022 – 09:04:05

Subject	NT Government Please block Origins plans for opening 12 new fracking wells
From	Estelle Ross
Sent	8/14/2022 9:04:05 AM

In the 21st century there is no way we should be supporting fossil fuels. The fracking process involves using enormous amounts of precious water and also pollutes the ground with the vast amount of chemicals also used in the process which could contaminate groundwater supplies for years.
I urge you therefore to ban this project
Kind regards Estelle Ross Tasmania

Estelle Ross
****
TAS 7250

Ross, John – Thursday, 11 August 2022 – 14:21:20

Subject	Frack Off Origin
From	John Ross
Sent	8/11/2022 2:21:20 PM

For God's sake, act like a responsible government, that understands climate change and what causes it.

No fracking, no oil, no gas and no coal. Not today, not ever again.

The lovely money will be done and gone within a few years (just like your time in parliament), but a dead planet will last for ever.

Don't go there. Tell Origin to frack off.

John Ross

John Ross
****
VIC 3084

Ross, Malcolm – Thursday, 11 August 2022 – 14:19:43

Subject	Put an end to Origins' fracking plans
From	Malcolm Ross
Sent	8/11/2022 2:19:43 PM

NT Dept of Environment, Parks and Water Security:

My plea is simple: please listen to what traditional owners of these lands have to say. They have been there for sixty thousand years, and Australians should respect their wishes.

Malcolm Ross
****
ACT 2612

Ross, Mark – Thursday, 11 August 2022 – 12:36:00

Subject	Stop Origin fracking plans
From	Mark Ross
Sent	8/11/2022 12:36:00 PM

In addition to mining fossil fuels that damage our world which is enough reason without adding the damage caused to the environment surrounding the fracking area plus the insensitivity to the original owners of the land in disregarding their wishes to preserve their country. Let us consider the future not approve fracking that will effect the future of our land

Mark Ross
****
NSW 2089

Ross, Tony – Sunday, 14 August 2022 – 11:16:59

Subject	Stop Fracking in the NT.
From	Tony Ross
Sent	8/14/2022 11:16:59 AM

Northern Territory Dept Environment Parks and Wildlife.
I wish to express my opposition to Fracking in the NT. As Chair of the Upper Nepean Catchment Management committee in the 1990s We saw what fracking for gas did in the area south and southwest of Sydney. Water tables fell, gas bubbled in rivers from fracking rock fractures and surface water was sometimes polluted by over topping of safety ponds containing water and drilling chemicals.
Please don't let it happen in the NT. Water is too precious and the damage id often permanent.

tony ross
****
VIC 3199

Ross, Victoria – Sunday, 14 August 2022 – 09:17:34

Subject	The Northern Territory Must Reject This DestructiveProposition
From	Victoria Ross
Sent	8/14/2022 9:17:34 AM

To the Northern Territory Department of the Environment, Parks and Wildlife!

To whom it may concern

This appalling possibility of any Fracking in the Northern Territory shouldn't be considered in any dimension let alone 12 wells.

The price the land, water and people would have to pay outweighs any gain! It is known scientifically that the chemicals used for fracking permanently destroy any nearby water! In no way can it ever be
removed from water!!

This fact has been scientifically stated International water experts during battles to prevent fracking in NSW, the UK and I believe included in any EIS. We have the science yet we stupidly and greedily charge ahead with these destructive plans!

Water is our greatest asset, which we all well know yet the Government readily and repeatedly wears blinkered ignorance!!

Time to uncover your eyes, ears and minds with environmental responsibility being demanded!!

Sincerely

Victoria Ross

Victoria Ross
****
NSW 2576

Rottman, Jon – Friday, 12 August 2022 – 16:11:41

Subject	Please ,No Fracking for the Northern Teritory !!
From	Jon Rottman
Sent	8/12/2022 4:11:41 PM

Please stop , have you not been listening to the traditional owners? If Fracking starts there will be NO way to repair damage done . Too much short term gain Long term loss . Will this government be the one named as having begun the process of the ruination of the beautiful NT?? If have just recently returned from an outback holiday of the NT. I was astounded by its red beauty !Your sincerely , Jon Rottman

Jon Rottman
****
QLD 4573

Rountree, Jim – Friday, 12 August 2022 – 15:21:42

Subject	Costs of fracking outweigh benefits - Please do not approve Origin's fracking plans
From	Jim Rountree
Sent	8/12/2022 3:21:42 PM

To the Department of Environment, Parks and Water Security (Northern Territory)
Submission re Origin Energy's Environment Management Plan (EMP) for 12 exploratory fracking wells on Amungee Mungee pastoral station.

Dear Committee,

My name is Jim Rountree. I am a recently retired technical writer for scientific and medical equipment, residing in Melbourne.
I am writing to you as a small thing that I can do to help preserve our country and planet.
Plainly, you are aware of the environmental cost of our usage of natural gas. At its best, it burns to produce the greenhouse gas, carbon dioxide. With the obvious effects on Australia in terms of fires, floods, and degradation of the Great Barrier Reef (besides equivalent effects on other countries) this is not the time to be putting more carbon dioxide into the atmosphere.
I say, ‘at its best’, because we’d have to suffer the effects of increased carbon dioxide emissions even if the natural gas could be extracted without any other environmental issues. But with fracking, that is far from the case.
To start, there are always significant ‘fugitive emissions’ of methane. Methane is a far more powerful greenhouse gas than carbon dioxide (and after decades it finally breaks down into carbon dioxide).
Fracking requires huge water reserves, and with the chemicals it requires there is significant risk of groundwater pollution. My understanding is that Origin plan to move waste water (at least, the waste water that they collect) out of state. How is that a solution? And by rupturing the geological structures under the ground as the very means of gas extraction, how can they guarantee to contain all waste?
I understand that the First Nations people of the lands in question are against fracking of their country. With their ancient and traditional custodianship of the land, we should take their opinion seriously. They are right to reject fracking.
Of course our modern society needs energy. Please be part of the change that allows us to produce that energy without such huge environmental cost. That would entail rejecting Origin Energy’s proposed EMP,
Yours sincerely,
Jim Rountree
Brighton East, Victoria

Jim Rountree
****
VIC 3187

Rouse, Kate – Saturday, 13 August 2022 – 15:21:34

Subject	Stop fracking in the Northern Territory
From	Kate Rouse
Sent	8/13/2022 3:21:34 PM

Dear Government Ministers,
It's more than time that regional and national governments in Australia stop backing big business in their 'business as usual' practices which have, and continue to, result in environmental degradation.

Stop making decisions based on short-term election cycles and start making long-term, sustainable choices which protect, enhance and restore the natural environment. Stop trading the health of this planet and the well-being of NT's indigenous people for short term profit and your own career advancement.

Stop fracking and start doing your job, which is environmental stewardship. Our children and grandchildren deserve leaders with vision and responsibilty, who acknowledge and then come up with an effective and comprehensive plan to counteract the environmental mess we are in. If you think that a dirty, destructive and water-intensive process such as fracking is a good option, it's definitely time for you to retire.

Yours sincerely,
Kate Rouse

Kate Rouse
****
WA 6019

Rowe, Sean – Friday, 12 August 2022 – 15:57:33

Subject	STOP ORIGIN'S FRACKING PLANS!!!
From	Sean Rowe
Sent	8/12/2022 3:57:33 PM

To the northern territory department of environment, parks and water supply,

This is such a crazy thought. With climate change really starting to spiral out of control, how can this even be proposed.

Please stop origin.

Shut then down!

This should no way be allowed to happen!

Kind regards,
Sean Rowe

Sean Rowe
****
SA 5096

Rowland, Michael – Friday, 12 August 2022 – 18:12:22

Subject	Fracking in Australia
From	Michael Rowland
Sent	8/12/2022 6:12:22 PM

Dear ministers
I will briefly outline your responsibility in this case of 'Fracking ' for gas and oil exploitation.

In all environmentally precarious matters such as development, potential. pollution, treas to vumnerable species etc. The Precautionary principle applies. That is, if there is a suspected risk to the environment, the wildlife or resources therein (such as water or air), the proposal should not proceed. Fracking has been demonstrated to be not only risky, but also highly destructive of subteranian water reserves. The proof of this will not be provided to you by the proponents. it is not in there interests. What is in there interests is to provide their evidence that it is not a risk. In these cases it is the governments responsibility to REPRESENT THE GENERAL POPULATION, not the proponents. The community and population of the lands upon which these 'mines' are proposed have clearly stated that you should not proceed/allow the proposal.
Your responsibility is to the general population. The general population are increasingly losing trust in government.
Michael Rowland

Michael Rowland
****
TAS 7162

Rowley, Lyndall – Friday, 12 August 2022 – 16:10:00

Subject	Please prevent all fracking and reject Origin's EMP for 12 proposed wells
From	Lyndall Rowley
Sent	8/12/2022 4:10:00 PM

Dear Department of Environment, Parks and Water Security,

Even though I realise my plea will come to naught, I want to register my objection to Origin's EMP and indeed any fracking - exploratory or other - on the grounds of it being a risk to the natural local environment and altering habitats, as well as contributing to further global warming.

Regarding my objection to fracking itself, I have concerns for:
1. water quality and the potential contamination & possible alteration of the aquifer and waterways in the area via any toxic chemicals used in the drilling, fracking & extraction process. Dangerous chemicals including benzene, toluene and styrene for example, along with 'forever chemicals' PFAS (per-and polyfluoroalkyl substances), are commonly used in the US for fracking. These have even turned up in household tapped water, and people have tested positive for these substances in their bodies. Many people have experienced a host of health issues.

2. Methane emissions escaping at drill sites and during production will add to the global warming process. In addition, eventual off-shored 'scope 3' emissions will substantially contribute to further global warming.

3. Water usage for fracking. The fracking process uses large amounts of water from the local area which robs it from the local habitat as well as 'downstream', and alters the natural seasonal hydrology; and insult to injury, contaminates it as waste water.

Thank you for the opportunity to make my thoughts known about Origin's plans for fracking.

Kind regards,
Lyndall Rowley

Lyndall Rowley
****
VIC 3550

Rumble, Ben – Saturday, 13 August 2022 – 10:11:13

Subject	Please reject Origin Energy's Environmental Management Plan
From	Ben Rumble
Sent	8/13/2022 10:11:13 AM

To the Northern Territory Department of Environment, Parks and Water,

My name is Ben Rumble and I live in Carlton NSW. Like an increasing number of my fellow Australians, I do not want to see any branch of our government allowing Origin Energy to frack the Northern Territory or, for that matter, any other part of our climate-ravaged nation.

As you're no doubt aware, the traditional owners of the land upon which the fracking of the Amungee Mungee pastoral station is proposed to occur have never consented to Origin's plan to drill 12 new "exploratory" fracking wells. It is my understanding that Origin is attempting to fast track the fracking of this land by "testing" it under an "exploratory licence" and that it plans to sell whatever gas it may locate despite the fact that a "production licence" is required for it to do this.

This behaviour is not acceptable. No company, Origin Energy included, should be allowed to override the current regulations in its greedy pursuit of profit over the well being of First Nations people and the land they have such an ancient and intimate connection with.

At the same time, Origin has failed to address the impact its new fracking project will have on the NT environment, even going so far as to claim that selling the gas they find will "reduce carbon emissions." This claim is patently false, with the project set to dump more than 500,000 tonnes of 'scope 3' emissions into the atmosphere while using 430 millions litres of water sourced from the Gum Ridge Formation — water that will eventually become toxic waste water that will need to be disposed of interstate, creating still more carbon pollution from truck exhaust and causing still more disruption to First Nations communities.

Alexander Côté, Origin Energy's own Exploration and Appraisal Manager, admits that the company has no plan to manage this toxic waste water or the effect it will have on the water supplies of the remote NT communities that depend on it for their survival. I would add that the company has failed to implement all of the 135 recommendations handed down in 2018 by the Scientific Inquiry into Hydraulic Fracturing known as the Pepper Inquiry — an oversight that must be properly investigated before any further fracking is permitted.

Again, this sort of cavalier behaviour by Origin Energy is not in any way acceptable and should be viewed as the environmental catastrophe in the making that it indisputably is.

Indigenous leadership on this issue needs to be acknowledged and respected by the NT Government. This is First Nations land and First Nations voices need to be heard before any more disasters are inflicted on it by a scientifically unsound, greed-driven company. Greed is really what's driving Origin's fracking plans. It knows the future of energy lies in developing renewables and is trying to maximise its profits while it can.

It should be obvious by now that we're facing unprecedented climate change here in Australia and all over the world. Supporting fossil fuel industries like fracking is a dangerous step backwards in terms of what we need to be doing to ensure a sustainable future not just for ourselves but for our children and grandchildren. Fracking is not a sustainable industry and should never be permitted or supported in any form by the NT Government. The first duty of

government is to act for the common good, not to bow to the greed and self-interest of companies like Origin Energy who foolishly refuse to accept that renewable energy is the only safe way forward for our country and its economy.

Please think carefully about what the points I've raised and act for the benefit not just of your fellow Territorians but of all Australians by categorically rejecting Origin's dubious and deliberately misleading Environment Management Plan. Now is the time to act responsibly for the greater good of First Nations before their country and our planet are permanently destroyed.

Thank you for allowing me to share my concerns with you.

Yours sincerely,
Ben Rumble
Carlton NSW

Ben Rumble
****
NSW 2218

Russell, Elizabeth – Saturday, 13 August 2022 – 14:19:34

Subject	Stop fracking
From	Elizabeth Russell
Sent	8/13/2022 2:19:34 PM

You need to stop fracking now. Your destroying our country and our children and grand children's future.

Elizabeth Russell
****
QLD 4215

Russell, John – Thursday, 11 August 2022 – 14:57:43

Subject	Stop Fracking by Origin and all miners in the NT
From	John Russell
Sent	8/11/2022 2:57:43 PM

Climate change is real and science is saying we can't have any new gas mines established if we are to keep rising temperatures below the critical level. Add the risk to the water table in an arid environment and fracking becomes a high risk irresponsible activity and must be banned by the NT government. Listen to local indigenous communities that have rejected gas fracking on their land.

John Russell
****
NSW 2112

Russell, Patricia – Sunday, 14 August 2022 – 16:31:54

Subject	Fracking
From	Patricia Russell
Sent	8/14/2022 4:31:54 PM

Fracking will have far-reaching negative consequences that nothing will be able to undo.

patricia russell
****
VIC 3144

Russell-Head, Katharina – Sunday, 14 August 2022 – 15:06:43

Subject	Stop Origin's Fracking Plans
From	Katharina Russell-Head
Sent	8/14/2022 3:06:43 PM

To the Northern Territory Department of Environment, Parks and Water Security

Hello, my name is Katharina,

I live in Victoria and this is my country. I'm grateful to the Traditional Owners for sharing it with those of us who have come from elsewhere, and I'm grateful to you who help to care for my country everywhere.

Our country has so much to offer without our having to destroy our heritage. Please do not approve Origin's fracking plans. This will open the way for others to do the same.

Please protect my country. I cannot protect our precious heritage and our beautiful environment without your help. I'm relying on you.

Thank you,
Katharina

Katharina Russell-Head
****
VIC 3106

Russo, Cirino – Friday, 12 August 2022 – 14:43:32

Subject	Origin's Fracking Plans MUST Stop
From	Cirino Russo
Sent	8/12/2022 2:43:32 PM

Seriously, it is time this idiotic practice stopped.
Enough gas is going overseas with no tax been g paid in Australia. As you see, tAustralians are extremely in favour of protecting our planet for the future. How dare you allow these companies to trespass and destroy the land. Notice that I did not say "our" land.

Cirino Russo
****
NSW 2577

Ruwoldt, Robert – Friday, 12 August 2022 – 14:40:19

Subject	bobandolga@adam.com.au
From	Robert And Olga Ruwoldt
Sent	8/12/2022 2:40:19 PM

Please don't let corporate profit destroy our children's future.

Robert and Olga Ruwoldt
****
SA 5047

Ryan, Chris – Saturday, 13 August 2022 – 17:58:20

Subject	Don't let Origin frack NT.
From	Chris Ryan
Sent	8/13/2022 5:58:20 PM

There are 3 main arguments as to why fracking in the NT is a terrible idea. Two are existential and one is of cultural heritage.

Just as a comet has a tail, colonisation has a long tail of discrimination and decimation of indigenous culture as statistics verify, - deaths in custody, heritage sites destroyed, and the list goes on. Both legislation to support indigenous communities and its execution is wanting. Traditional Owners have been staunchly defending their country against Origin for years and the voice of indigenous owners needs to be heard, respected and responded to.
There is much evidence of the risks and dangers of fracking. Fracking causes us the risk of serious and irreversible damage caused by the technique or the uncertainty about the science behind it and the scope and magnitude of its impacts. Many countries have banned fracking due to its risks. In a country like Australia where water is so scarce using fracking which uses enormous quantities of water and which also puts underground reserves of water at risk is highly irresponsible especially in the light of global warming of which government models predict much less rainfall and our underground water resources will be even more vital.
Fires and floods have ravaged Australia due to climate change due to global warming due to fossil fuel use causing carbon dioxide emissions in our atmosphere causing global warming. The disgust of fossil fuel industies changed the government. To open more fossil fuel extraction on this scale is highly irresponsible not only to populations now but to the future Australians and may indeed be an existential threat to our species. I repeat that continued extraction of fossil fuels may lead to the extinction of Homo sapiens. There is so much evidence to support this statement.
What is our priority? Is it to enable multi-national companies to make money at the risk of our underground water resources, companies that run roughshod over our indigenous first nation peoples and who threaten the very existence of our species? It's a no-brainer. I demand the NT Government stop Origin's reckless fracking plans.

Chris Ryan
****
SA 5052

Ryan, Helen – Sunday, 14 August 2022 – 10:13:39

Subject	mm.ryan@bigpond.com
From	Helen Ryan
Sent	8/14/2022 10:13:39 AM

Have you noted the North Pole melting.Europe on fire,Africa drought, huge losses of habitat worldwide and YOU WANT TO DO SOMETHING that could be catastrophic!!!! Fracking!!!!!!!!!!!

Helen Ryan
****
NSW 2257

Ryan, Regina – Saturday, 13 August 2022 – 09:54:03

Subject	please NO Fracking
From	Regina Ryan
Sent	8/13/2022 9:54:03 AM

Dear NT Dept. of Environment, Parks and Water security
I believe it is your job to protect the environment. We have done enough damage it's disgusting. Please do not allow fracking its time to turn away from fossil fuels and honor our responsibilities to future generations.
Thank you

Regina Ryan
****
VIC 3754

Ryan, Richelle – Thursday, 11 August 2022 – 14:59:43

Subject	Stop Origin's Fracking plans in the NT
From	Richelle Ryan
Sent	8/11/2022 2:59:43 PM

To the Northern Territory of Environment, Parks and Water Security
I respectfully request you do not allow the international corporation Origin to continue to explore and undertaking fracking in the Northern Territory.
The traditional owners and most informed Australians Do Not want this destructive enterprise to happen, having the understanding all endeavours concerning fracking are solely for short term profit for large international businesses who contribute nothing or very little to the Australian society. The environmental risks are considerable and the history of this company is the long term accountability of the wells are not addressed.
Please consider this submission and our request before granting Origin permission to possibly pollute more of Australia
Yours Sincerely
Richelle Ryan
Joan Ryan
Somaya O'Donnell
Jake O'Donnell

Richelle Ryan
****
WA 6330

Ryan, Sam – Sunday, 14 August 2022 – 06:46:55

Subject	Don't frack the NT
From	Sam Ryan
Sent	8/14/2022 6:46:55 AM

Please listen to the majority of Traditional Owners who do not want fracking on their Country, and avoid poisoning land, water and air in some of the most pristine areas we have left in Australia. Consider the long-term costs for the short-term benefits, mostly to the bottom lines of large corporations who pay little tax.

Please reject Origin Energy, and other companies, plans to frack the NT.

Sam

Sam Ryan
****
SA 5173

S, Derrin – Sunday, 14 August 2022 – 13:35:35

Subject	Stop Origin's fracking plans in the NT
From	Derrin A S
Sent	8/14/2022 1:35:35 PM

As a share holder in Origin, I am concerned that fracking impacts our climate, water, and communities, it cannot be allowed. It is imperative that we move immediately to clean renewable energy sources.

Derrin A S
****
VIC 3717

Sadovchikoff, Válek – Saturday, 13 August 2022 – 15:55:44

Subject	Reject Origin Energy fracking
From	Válek Sadovchikoff
Sent	8/13/2022 3:55:44 PM

Dear Sir/Madam
I'm an Origin customer and I'm going to move our energy services to another provider. While they advertise their propaganda that they are promoting sustainable energy solutions they are creating brutal damage by planning their fracking ventures in NT. Please reject their applications to initiate these fracking projects
Regards
Válek Sadovchikoff

Válek Sadovchikoff
****
VIC 3004

Saffin, Darren – Monday, 15 August 2022 – 09:35:17

Subject	Stop fracking in the NT - there is no place for Origin
From	Darren Saffin
Sent	8/15/2022 9:35:17 AM

Origin's plan to frack in the NT poses massive risks to water, cultural heritage, and our climate.

There is no place for fracking in this world already effected by climate changing.

Everyone should be doing their utmost to reduce emissions, not increase them which burning any gas from fracking will do.

Fracking will damage more of the traditional owners lands and goes against their wishes - they have been defending their traditional lands aginst this sort of thing for years. its time to let the owners determine the use of their lands, not a multinational company concerned only with profits.

the amount of fresh water needed for this fracking operation is enormous and if contamintaed will leave communities wihout water.

there is no place for fracking in the NT.

regards

darren saffin

darren saffin
****
VIC 3058

Said, George – Thursday, 11 August 2022 – 15:32:13

Subject	Refuse Origins destructive fracking
From	George Said
Sent	8/11/2022 3:32:13 PM

Northern Territory Department of Environment Parks and Water Security.

Please reject the proposal to allow Origin to establish 12 new fracking projects. These are destructive and contrary to the wishes of the majority of Australians who know that fracking is destructive to the environment and contrary to good sense. Our environment is under threat and by granting Origin permission you are precipitating the earth's destruction.
Please consider rejection of Origin's proposal.
With thanks
George Said OAM
16James Avenue, Seaholme Vic 3018.

George Said
****
VIC 3018

Saines, Marian – Saturday, 13 August 2022 – 15:45:04

Subject	No Fracking the NT- listen to the Indigenous owners
From	Marian Saines
Sent	8/13/2022 3:45:04 PM

To Whom it May Concern
I am writing from Geelong Victoria.
As someone who grew up on a farm in the Sthn Slopes of NSW, my concern for land & water has remained with me throughout my 68 years.
I am disgusted at a) Origin's greedy, unsustainable fracking plans for Aboriginal land in the NT & b) that the NT shows a willingness to collude in this ecocidal destruction of clean water, land & inevitably Indigenous culture, to support your election donors!
The plans treat Indigenous Australians and our children & great- children's' future with obscene, cavalier, disregard!
I lived in Darwin & Katherine for a decade, when working as an RN & RM. WHY would you fail to protect this beautiful & ancient land? WHY would you fail to respect the wishes of the Aboriginal people & demonstrate commitment to future generations of Australians?!

Bewildered & Disgusted
Marian R A Saines

Marian Saines
****
VIC 3219

Salgado, Emilia – Saturday, 13 August 2022 – 07:55:26

Subject	Stop Origin's Fracking Plans
From	Emilia Salgado
Sent	8/13/2022 7:55:26 AM

NT Dept of Environment, Parks and Water Security

Dear NT Government,

I am writing to implore you to STOP Origin's fracking plans in the NT.

Fracking puts known and recognized risk of damage to the water table, flora, fauna and all elements of delicate ecosystems. It's a very destructive, extractive process.

Most importantly however, this damage will occur on traditional Aboriginal lands. It will perpetuate the ongoing destruction of land, considered spiritually core to Indigenous culture.

Most people would consider fracking under St Mary's Cathedral in Sydney to be an abhorrent, disrespectful and destructive action, as this site is recognized by the community, even those who aren't Christians, as a site of spiritual importance. How obscene is it that Origin plans are overriding the spiritual significance of what the land represents to its traditional custodians? Don't these people, their thousands of years of connection to these lands, matter?

Origin's fracking operation, if allowed and continued, will perpetuate the violence and desecration of Indigenous culture and is entirely unacceptable. The risks to the environment are enormous, yet the damage Origin's fracking plans will cause Aboriginal custodians of this environment go beyond the ecological; it is damage to the cultural, spiritual and emotional connection to land which is at the heart of my opposition to Origin's intention.

This plan to frack these lands is irresponsible and driven by a demand for profits, over the wellbeing of people. Let's be clear here; this fracking is about plundering the land to maximize profits. It's about violating ecosystems to maximize profits. It's about wilfully ignoring the desecration of cultural wealth to pursue an economic imperative that will benefit a private company.

If allowed to proceed, it will be another stain on this nation's deplorable treatment of First Nation's people, culture and land. And it won't stop here. If you allow Origin to frack it's way around the NT this will be just the beginning.

The times when these destructive, greedy and self serving industries could ruin landscapes, attack the environment without concern for our future and desecrate sites of spiritual significance are soon to end. Please be on the right side of history by rejecting Origin's plans to wreak catastrophic destruction on the environment and I urge you to stand by the ancient custodians of this land when you do so.

Emilia Salgado

emilia salgado
****
NSW 2024

Salis, Bev – Saturday, 13 August 2022 – 14:33:30

Subject	Stop Origins Plan to Frack
From	Bev De Salis
Sent	8/13/2022 2:33:30 PM

NT Dept of Environment, Parks and Water,
I am a concerned Australian citizen working in the Health Industry.
Having heard the recent plans to frack in the NT has prompted this email.
Our water is precious and Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal.
They will also produce 90 million litres of wastewater which they are planning to truck interstate.
They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.
But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA). There are many more reasons....
Please protect our land and previous water from the known risks of the unconventional gas industry.
Sincerely
Beverley

Bev de Salis
****
WA 6157

Salmon, John – Thursday, 11 August 2022 – 14:13:58

Subject	No more fracking in NT
From	John Salmon
Sent	8/11/2022 2:13:58 PM

To NT dept of parks wildlife and water

Dear Sir - Madam

In the light of the accelerating human induced climate change, it seems to me impossibly silly to licence more fracking.
I think the recent federal election results make it very clear Australians want action on climate change in preference to creating more wealth.
And besides, has the NT govt got approval from indigenous people to frack? I don't think so.
Please, please, say no to any more fracking. Lets focus the NT's efforts on renewables

Yours sincerely

Dr John Salmon

john salmon
****
VIC 3690

Salter, Todd – Sunday, 14 August 2022 – 21:26:59

Subject	Stop Origin from fracking
From	Todd Salter
Sent	8/14/2022 9:26:59 PM

The Northern Territory Government
Please stop Origin Energy from fracking in the NT without full approval from the Traditional Owners.
Fracking can pollute fresh water supplies and is damaging to the environment.

Todd Salter
****
NSW 2088

Sanders, Glenn – Saturday, 13 August 2022 – 17:20:06

Subject	Please stop Origin from fracking your beautiful country
From	Glenn Sanders
Sent	8/13/2022 5:20:06 PM

I've visited the Territory three times, on recreational visits to Kakadu. I'd be appalled, and very reluctant to visit again, if you allow fracking to destroy your beautiful scenery. I'd be even more appalled at the impact on climate change, global warming and emissions reduction.

It's just not logical.

Regards
Glenn Sanders
Southern Tasmania

Glenn Sanders
****
TAS 7109

Sanderson, Karis – Saturday, 13 August 2022 – 15:15:28

Subject	Origins plans
From	Karis Sanderson
Sent	8/13/2022 3:15:28 PM

To NT department of the environment .

We are seeing the catastrophic consequences of not reducing or eliminating most toxic emissions.
Now origin plans to frack via twelve new wells without even declaring plans to dispose of its contaminated waste water! The local First Nations also don't want their land and water ruined. Already many remote communities have had their water poisoned by mining residues such as uranium or arsenic. Enough!
Labor won in part because it listened to citizen concerns. But if such mega projects go ahead , Australia's reputation will continue to suffer and the public health of vulnerable communities will decline. Millions of tonnes of emissions will endanger human and other living animals and plants. We cannot wait for god to save us a la Morrison! STOP.

Karis Sanderson
****
ACT 2600

Sandy, Ruth – Friday, 12 August 2022 – 14:44:26

Subject	Stop Origin Fracking
From	Ruth Sandy
Sent	8/12/2022 2:44:26 PM

To the Northern Territory Department of Environment, Parks and Water Security.
Please do NOT allow Origin to frack and destroy country, water and our climate in the NT. The needs of a company to make profit should not overrule the desires of local communities directly impacted by this - or the wishes of the wider community. Please make the right decision for our country and do not allow this to go ahead

Ruth Sandy
****
VIC 3056

Sandy, Sandy – Friday, 12 August 2022 – 14:33:05

Subject	Stop Origins Fracking Plan ms.
From	Sandy Sandy
Sent	8/12/2022 2:33:05 PM

The people of the Northern Territories don't want it, the people of Australia don't want it. It is bad for our environment, the land and wildlife protection is under threat.
The world is watching, the voters are watching and the people are watching. No one has the right of passage to make decisions on hat harm our environment, water, endangered wildlife, Mother Earth and the people that live in on it.
None of this government or any other bodies has the right to override the wishes of the people who live and vote in the area. This effects everyone in Australia. It is well known- this is a dangerous practice and people both locally and Nation wide have clearly stated - WE DON'T SUPPORT FRACKING IN ANY FORM on OUR LAND in AUSTRALIA- Period. You will be held accountable and responsible for the irreversible damage it will cause. Please be responsible and respectful of the people's wishes. NO FRACKING.

Sandy Sandy
****
QLD 4879

Sangkuhl, Mark – Sunday, 14 August 2022 – 14:17:50

Subject	Stop origins fracking plans
From	Mark Sangkuhl
Sent	8/14/2022 2:17:50 PM

We need to stop ruining our environment for private enterprises and contributing to green houses gases. Invest the money in renewables.

Mark Sangkuhl
****
NSW 2203

Sansoni, Smiley – Sunday, 14 August 2022 – 18:52:21

Subject	smileyjsansoni@gmail.com
From	Smiley Sansoni
Sent	8/14/2022 6:52:21 PM

What is wrong with you people ? You have seen the evidence
Not only is fracking bad for our climate, it risks causing air, water and sound pollution. It uses toxic chemicals where regulation may not be adequate.

An accident could mean that these chemicals leak into water supplies or cause pollution above ground. In fact, this has happened many times in the US.
research has linked pollution from fracking to unhealthy levels of smog and of toxic air contaminants. Exposure to this pollution can cause eye, nose, and throat irritation, respiratory illnesses, central nervous system damage, birth defects, cancer, or premature death.

Fracking has been linked to preterm births, high-risk pregnancies, asthma, migraine headaches, fatigue, nasal and sinus symptoms, and skin disorders over the last 10 years, according to a new study

Fracking operations not only strain water resources but risk polluting them as well. A 2016 EPA analysis found that while large data gaps and uncertainties make it difficult to fully assess the impact on drinking water, fracking operations can—and do—affect drinking water resources

Smiley Sansoni
****
QLD 4184

Santry, Petre – Friday, 12 August 2022 – 17:50:44

Subject	No fracking on aboriginal land
From	Petre Santry
Sent	8/12/2022 5:50:44 PM

I am extremely disappointed to hear of the intended fracking by Origin Energy further endangering both aboriginal heritage sites and the environment in the NT - particularly at a time when we desperately need to finally give our indigenous people a voice! Please do not give Origen the permission to initiate this project.
Yours Sincerely
Dr Petre Santry

Petre Santry
****
VIC 3161

Sarah, Elizabeth – Friday, 12 August 2022 – 15:03:03

Subject	Please stop Origin's fracking plans
From	Elizabeth Sarah
Sent	8/12/2022 3:03:03 PM

Northern Territory Department of Environment, Parks and Water Security.
This world climate crisis needs investment in renewable energy not in fracking.
Please act with the urgency needed and refuse Origin permission to destroy our precious environment.
Sincerely
Elizabeth Sarah

Elizabeth Sarah
****
VIC 3350

Sarah, Virginia – Sunday, 14 August 2022 – 20:14:35

Subject	Stop fracking
From	Virginia Sarah
Sent	8/14/2022 8:14:35 PM

Please stop destroying our planet

Virginia Sarah
****
SA 5112

Saraswati, Joy – Friday, 12 August 2022 – 12:31:06

Subject	Origin's plans to frack
From	Joy Saraswati
Sent	8/12/2022 12:31:06 PM

NTDPWS
My name is Joy Saraswati from Airlie Beach in Qld.
I visited the NT and in particular the remote areas of Arnhemland a few years ago. Fracking of their land was on the agenda then and I was amazed at the passion of the women in regard to opposing this plan.

Australia's focus is on truth telling and reconciliation with our first nations people. These plans are not only vandalism of our environment but poorly timed. If allowed your actions will ruin the environment and go against the wishes of not just our First Nations people who look after the land, but most Australian's who are moving against fossil fuels.

I am asking this department to reject Origin's EMP.

Joy Saraswati
****
QLD 4802

Saraswati, Nirbeejananda – Sunday, 14 August 2022 – 09:10:15

Subject	STOP ORIGINS FRACKING PLANS IN THE NORTHERN TERRITORY
From	Nirbeejananda Saraswati
Sent	8/14/2022 9:10:15 AM

To The Northern Territory Department Of Environment, Parks And Water Security,

Thank you for reading my submission on plans for further fracking plans, as follows:-
I am Nirbeejananda Saraswati and I am a very concerned Australian citizen, currently living in South Australia.
I wish to go on record as being vehemently opposed to any further plans by Origin to undertake fracking in The Northern Territory.
Fracking is well documented, nationally & internationally, to have negative impacts on ground water supplies and the stability of the environment and hence our climate.
Fracking threatens cultural heritage sites, which Traditional Owners have been fighting for many years.
I implore the The Northern Territory Government to not issue any further permits that would allow Origin to open up more fracking wells.
I write this in the interest of myself, our environment and the Traditional Owners and future generations.
Your sincerely,
Nirbeejananda Saraswati

nirbeejananda saraswati
****
SA 5223

Satour, Yagan – Sunday, 14 August 2022 – 06:57:36

Subject	Please stop Origin's fracking plans in the NT
From	Yagan Satour
Sent	8/14/2022 6:57:36 AM

To the NT Department of Environment, Parks and Water Security,

I am a concerned Territorian (residing in Coconut Grove) and a mother of a 4 year old with cultural links to the Daly River and Coburg Peninsula.

I ask you to please stand up for reason, for our climate and for our future by stopping Origin fracking our Country.

Fracking has been banned in many countries globally as it is a dangerous and destructive form of mining that impacts the health of people and Country.

But this action is also against the wishes of Traditional Owners. I believe in the ethics and sense of responsibility of the Territory's Labour government and hope that you can do the right thing for all of us and not support the profits of a major fossil fuel company who doesn't care about the damage it creates.

Yours faithfully,
Genevieve Grieves

Yagan Satour
****
VIC 3085

Saunders, Brenda – Thursday, 11 August 2022 – 20:14:18

Subject	Please stop fracking on Aboriginal land
From	Brenda Saunders
Sent	8/11/2022 8:14:18 PM

The Director,
Northern Territory Department, Parks and Water Security

Dear Sir,
As a Wiradjuri Elder from NSW, I am writing to express my concern and sorrow at Origin Energy's submission of an Environment Management Plan (EMP) to your Government. This news is disturbing on many levels.
If this EMP is approved, and they are allowed to drill and frack twelve new "exploration" wells on Amungee Mungee station, it would no doubt lead to further options for this company to pursue fracking on other Aboriginal lands. It would also be setting a precedent for other fracking corporations like Empire Energy and Tamboran to lodge similar projects.
I am concerned that Origin has no plan to manage the huge amounts of toxic wastewater resulting from the mining process. Any plan to truck wastewater interstate, is not practical and not thought through. What other State Government would accept such pollution? And what solid, scientific assurances are given to manage the two million tons of emissions contaminating air land and water supplies close by?
In the United States, scientific reports and accepted knowledge of the real dangers of water pollution should be a warning to all governments in Australia. I can only fear the effects on our pristine and limited underground water, which is over a million years old. Any plan to infiltrate the Beetaloo sub-basin and the Gum Ridge Formation is fraught with danger.
Clean water is essential to my Aboriginal cousins and the communities who continue to live on and care for Country. Origin is already leaving scars on the landscape, visible as we travel along the Carpentaria Highway.
For years, our Traditional Owners have voiced their concerns, have said no to fracking on their Country. When the miners have moved on, our people will inherit the massive carbon footprint and the toxic residue created form this proposed.
I urge you to reject this and any other submissions made by fracking corporations who wish to destroy and pollute our Aboriginal lands.
Yours faithfully
Brenda Saunders

brenda saunders
****
NSW 2031

Saunders, Merelyn – Sunday, 14 August 2022 – 13:50:02

Subject	Stop fracking please.
From	Merelyn Saunders
Sent	8/14/2022 1:50:02 PM

NO MORE FOSSIL FUELS.
Climate change makes new approvals irresponsible in the extreme.
Make a stand for us having a viable future. Ist nations people are saying no. Listen to them.

Merelyn Saunders
****
SA 5210

Sautaux, Samuel – Saturday, 13 August 2022 – 06:14:53

Subject	Stop Origin's fracking plans
From	Samuel Sautaux
Sent	8/13/2022 6:14:53 AM

Dear Sir, Dear Madam,

I came visit your Country several times, as I just love your Nature and Wildlife... so unique !

But I am sorry, I cannot understand the point that you could just think one second to authorise more drilling plans whereas so many regions in the world are definitely and immeasurably destroyed and polluted !!

What world do you want to give to our Children ??!!

Please ! Nature will get lots more attractive for tourism and economy than just few months/years of drilling and dead wilderness !

World and Australians rely on your logic intelligences !
Please do not give chance to few dollars that will destroy your wonderful Country...

Best regards

Samuel Sautaux
****
WA 6024

Sawyer, Graeme – Monday, 15 August 2022 – 17:31:59

Subject	please see attached
From	Graeme Sawyer
Sent	8/15/2022 5:31:59 PM

Best regards,

Graeme Sawyer
Coordinator
Protect Country Alliance

Ph *********

********** <mailto:**********>

Attached Documents

SUBMISSION Re Origin Energy Amungee NW Delineation Program EMPOR111-1 (EP) 98 & 76 EMP on behalf of the Protect Country Alliance (PCA)

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For comment contact

Graeme Sawyer

Ph 0411881378

Summary

The Protect Country Alliance (PCA) brings together impacted landholders, communities, and civil society groups concerned about gas fracking proposals or projects in the Northern Territory. The Alliance is made up of delegates representing regional communities across the NT including; Elliott, Marlinja, Minyeri, Borroloola, Mataranka, Jilkminngan, Katherine and Hermannsberg. The PCA also has member organisations based in all major population centres across the NT.

The Amungee NW Delineation Programe EMP fails to meet the criteria for approval under the Petroleum (Environment) Regulations 2016 and should be rejected or referred for a full Environmental Impact Assessment.

PCA has identified many significant issues which mean that the EMP's proposed activities and mitigation measures fall short of the standard required under the Petroleum (Environment) Regulations 2016 ('the Regulations'), and must be rejected.

1. It does not fit with needs for reduction of greenhouse gas emissions and targets for the NT, Australia or more broadly and its reliance on Carbon Capture and Storage (CCS) to achieve this is optimistic and speculative at best. Its idea of "selling" gas produced during exploration must be rejected.

2. There is insufficient baseline knowledge, policy certainty and regulatory safeguards to properly understand and mitigate the risks associated with onshore unconventional gas extraction in the NT. The precautionary principle dictates that exploration activities should not proceed in these circumstances.

3. Origin's interpretation of the cumulative impact assessment requirement under the Regulations contradicts the clear intention of the amended provision and downplays the scale of its exploration program's environmental impacts. The 12 wells proposed are a clear breach of the Pepper Recommendation relating to Exploration creep (See 14.7.5 on page 413)

4. Origin's greenhouse gas emissions assessment lacks supporting evidence and results in an underestimate of anticipated emissions. These emissions must be considered in the cumulative assessment of all exploration and clearly needs a formal assessment through the EPA.

5. The EMP misrepresents the nature of NT stygofauna and fails to adequately mitigate real risks to stygofauna and subsurface groundwater dependent ecosystems. The EMP is deceptive. E.g. where it talks about "low toxicity" in relation to drilling fluids when in fact one of the chemicals is a Category 1 Aquatic toxin.

6. The assessment and proposed mitigation of impacts on threatened species and local wildlife draws on insufficient baseline data and includes illogical reasoning.

7. Proposals for the management of drilling waste and well integrity are unclear and fail to provide assurance about the isolation of toxins and waste management.

8. The project fails to meet the principles of Ecologically Sustainable Development (ESD) and creates significant risks for future generations, both in relation to threats to the groundwater systems in the region and broader climate emissions.

Given the issues set out below and the cumulative impacts of unconventional gas exploration in the Beetaloo, the EMP should be referred to the NT EPA for assessment under the *Environment Protection Act 2019* prior to a decision being made (ss 55(2), (4)). There are significant risks and uncertainties that need to be evaluated and assessed, not the least of which is the stygofauna and groundwater implications.

Concerns regarding operations and compliance.

No further EMP's should be approved until the situation relating to the essential monitoring regime as described in Pepper recommendation 7.11 is sorted out. Thios is a recommendation that was to be implemented before any further exploration. The monitoring data from Origin's previous operations is not available as required by the Pepper inquiry and their previous monitoring does not appear to comply with the Code of Practice. Specifically, the requirement to distinguish between the Top, Middle and Bottom of the vertical bore column requires 3 sensors in each monitoring bore.

> *The bore array must have a level of vertical resolution at least sufficient to be able to identify whether a leak of fluid or gas is occurring in the top, middle or bottom zones of an aquifer. At a minimum, electrical conductivity should be measured in real-time as an indicator providing 'early warning' of contamination, with the results telemetered from the site to the regulator and made available to the public.*[1]

The Code of Practice requires implementation of 7.11 and we can see no evidence this is in place on Origin well pads.

The data from SANTOS's Tanumbirini well pad indicates possible debonding issues associated with multi-well pad operations in the Beetaloo. The raw data[2] from RN040936 and RN040930 show rapid and significant increases in EC. (We note that the raw monitoring data from the Origin wells is not publicly available in contravention of the Pepper Inquiry intent.)

These increases in EC coincide with changes in the water elevation data indicating they occurred when activity such as fracking or pressure testing was taking place on a nearby well. This needs to be referred to the EPA for a formal analysis. The raw data suggests that the activity in a nearby well may be creating debonding issues[3] in other wells on a multi well wellpad.

The vibration and jarring may be contributing to debonding allowing pathways to develop up the outside of the casing where fluids and methane my migrate between aquifers. There has been a significant increase in methane levels in RN040936 as well.

Data from all of Origin's well pads must be made available to the public before any approvals can be considered.

[1] Pepper report page 151
[2] Point.nt.gov.au
[3] Pepper report page 60

Chemical Use

Origin's EMP must be rejected because its chemical use information is clearly inadequate, and shows the associated risks have not been properly considered.

Chemical substances used in fracking are of extreme concern to people across the region and they should not be allowed to be injected into the ground where at some point they may leak into the underground water systems and eventually into major rivers in the NT. Given the corrosive bacteria issues and the statistics on well failures, especially long term, their use is unacceptable. The NT government has a major responsibility to regulate these chemicals and to protect the people and the environment in the NT from them.

Chemicals in fracking processes have been related to a range of environmental and health concerns and the EMP seems to gloss over these issues and what appears to be relevant information.

A lot of this information has emerged in the USA since the Pepper inquiry as the US becomes aware of and has to deal with groundwater pollution and leaking wells on a massive scale. Also it has emerged that per- and polyfluoroalkyl substances (PFAS) chemicals or their derivatives [4] are being used in fracking and it appears some of the substances listed by Origin are in these categories. PFAS and related chemicals, known as forever chemicals, have very significant health implications and have already caused significant community concern in the region and they should not be allowed. The risks are too extreme

As an example, Polyethelene glycol is noted in the PSR fracking with PFAS document as one of the chemicals of concern. Michigan in the USA has a drinking water standard of 6 parts per trillion for such chemicals. One cup is enough to pollute 22 billion litres of water or 12000 Olympic swimming pools. The Imperial EMP suggests this chemical is to be used.

We ask that these chemicals be banned from use in the NT fracking industry.

The EMP does not show sufficient concern about chemicals like Dioxane. Dioxane is listed in the 7th Compendium of Scientific, Medical, and Media Findings Demonstrating Risks and Harms of Fracking as a carcinogen[5]:

> Most notable is the constituent 1,4-dioxane, a previously discovered PW component that is associated with human cancer and has been shown to be challenging to remove from the waste-stream.

It is also an acute category 3 hazard to the aquatic environment.

Given the Stygofauna presence and the long term risks of leaks it is completely unacceptable to be adding these chemicals to the underground systems that people and biodiversity and livestock depend on and that could in the long term impact on rivers and the associated aquatic biodiversity.

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[4] Horwitt, J.D, July 2021, Fracking with "ForeverChemicals" Physicians for Social Responsibility

[5] Lester, Y., Ferrer, I., Thurman, E. M., Sitterley, K. A., Korak, J. A., Aiken, G., & Linden, K. G. (2015). Characterization of hydraulic fracturing flowback water in Colorado: Implications for water treatment. Science of the Total Environment, 512-513, 637-644. doi: 10.1016/j.scitotenv.2015.01.043

Ethylene Glycol is a fracking chemical known to the State of California to cause birth defects or other reproductive harm. In animal studies it is consistently associated with adverse effects on the kidney such as crystal nephropathy.

Ulexite is known to be toxic to reproduction and may impair fertility and cause harm to the unborn child. These chemicals are dismissed as low concern yet there would appear to be much more risk than indicated, especially given the aquifers are sources of drinking water and agricultural water. On page 2-5 of Appendix D the EMP states

> *There is a lack of data available in the literature to directly assess the toxicity of the chemical. The major component of the chemical is a borate ion, which is likely to be associated with human health hazards of the chemical.*

There is no explanation of why this chemical should be allowed. The EMP should not be approved with such risks.

Biocides, such as *ALDACIDE G* and are a major risk to aquatic species, but there is no concern shown in the chemical analysis. The material is very toxic, and has classifications Category1 risk to aquatic systems, may cause long term adverse effects in the aquatic environment. This cannot be allowed until a full analysis of risks to Stygofauna is provided. There are many chemicals with high aquatic toxicity which means they have significant implications for stygofauna and the water systems from the Beetaloo through to the Katherine, Flora, Daly and Roper rivers. There has been no research done on the possible impacts of these biocides on stygofauna or the groundwater environment of the Cambrian Limestone Aquifer. No further approvals should be made until this work is completed to enable an informed risk assessment.

It is vitally important that the NTG does its checking regarding these chemicals as the impacts on water, human and animal health are of great significance. If these chemicals turn up in agriculture or horticulture water supplies, they could greatly disrupt these industries.

There are many chemicals listed which carry significant warnings and are not analysed in a manner providing any confidence that they will not be a problem. The Marcellus shale area in the US has massive problems with chemicals in water and the 7th Compendium (2020)[6] and the Pennsylvania state Grand Jury give some insight into these problems. Chemicals like endocrine disruptors, surfactants and biocides are major risks and need much more detailed and careful analysis. It is the responsibility of the NT government to make sure this analysis is done thoroughly to identify and prevent human health risks and environmental risks.

The NTG must provide strong regulation on this issue as there are very significant implications and long term risks to the water systems that underpin human occupation and businesses across the region as well as environmental risk. The analysis is also severely flawed in that it does not detail the chemicals to be actually used and makes statements like “commonly found in food and household domestic products”. This is industry propaganda and marketing spin and has no place in a technical EMP type document. This is also irrelevant, even if it was true. Many household chemicals are poisons or have severe environmental impacts if misused. Chemicals in fracking processes have been related to a range of environmental and health concerns and the EMP seems to gloss over these issues and what appears to be relevant information.

As an example, the EMP does not show concern about 1-4 Dioxane. 1-4 Dioxane is listed in the 7th Compendium of Scientific, Medical, and Media Findings Demonstrating Risks and Harms of Fracking as a carcinogen[7].

Corrosion Overview

The preliminary water study (Rees et al[8]) confirms that sulphate-reducing bacteria (SRB) are present in the basin and colonising casings in water bores. The risks that these bacteria pose to the integrity of wells have very significant implications for the future and this needs to be factored into decision making.

It is the clear responsibility of the NT government to regulate these risks. The stated policy that decisions in relation to petroleum and gas development will be guided by the principles of Ecologically Sustainable development (ESD) make it vitally important that the longer term view is taken with regards to this and other fracking proposals in the NT. It is possible that the fracking companies will be gone from the region and the responsibility for managing the outcomes of this corrosion, if that is even possible, will fall on future NT governments and the consequences will be suffered by future generations of Territorians. The evidence from the Marcellus shale in the US shows that the problems with leaks keep growing with time and massive remediation costs are thrown back onto governments and communities.

This clearly needs to be a part of the final risk assessment mentioned in the Pepper Inquiry's recommendation 4.6. There is a massive risk of future problems created by well failures. These problems seem to be unavoidable if the wells are proceeded with. This is a clear breach of ESD principles as it creates significant problems for future generations.

Sulfate-reducing bacteria and sulphur-oxidizing bacteria (SOB) are in the Beetaloo[9] and are a massive risk to the long-term viability of wells. These bacteria instigate corrosion processes that impact on concrete and steel structures. Microbially induced concrete corrosion (MICC) caused by sulphuric acid attack is a major problem with concrete.

The Oil and Gas Industry can only control sulfate reducing bacteria (SRB) with biocides when it is on the inside of a well. The environment where SRB are present (mainly damp soil with organic material present or other bacteria which can provide a food source/or aquifers) is a natural control system until punctured by an oil and gas well. This gas or oil well, if cement coated, gives the SRB food and their numbers grow as the natural control (availability of food) is no longer constrained. As SRB "eat" the sulphates in the cement they exhaust Hydrogen Sulphate (rotten egg gas), which in the presence of water turns to acid, initiating the whole cycle starts again.

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[7] 13 Concerned Health Professionals of New York, & Physicians for Social Responsibility. (2020, December). Compendium of scientific, medical, and media findings demonstrating risks and harms of fracking (unconventional gas and oil extraction) (7th ed.). http://concernedhealthny.org/compendium/

[8] Gavin Rees, Stefanie Oberprieler, Daryl Nielsen, Garth Watson, Michael Shackleton and Jenny Davis, (2020) Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory. GISERA project number: W18. December 2020

[9] Gavin Rees, Stefanie Oberprieler, Daryl Nielsen, Garth Watson, Michael Shackleton and Jenny Davis, (2020) Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory. GISERA project number: W18. December 2020

How long a well's external surface will withstand the corrosive effects of this acid before it is broken down enough to allow cross contamination of the aquifers, depends greatly upon the number of bacteria present, but we can be absolutely confident that this cross contamination will eventually occur.

Reports show this corrosion is already a problem in QLD coal seam gas projects[10]. Saltel Industries was approached in 2016 by one of Australia's leading natural gas producers to tailor a solution for their unusual problem: in some of their CSG wells in Queensland, the 7-inch production casing must cope with severe and localised external corrosion developing at shallow depth. These corrosion cases are suspected to be caused by bacteria growing under specific pressure and temperature environments.

Microbiologically-influenced corrosion seems to be systemic in the region, and other operators might encounter similar issues in their CSG wells. There needs to be further study of this issue in the SREBA before these wells are allowed to proceed[11].

This information confirms that corrosion is an issue in the CSG areas of QLD and validates fears that the same process will cause wells to eventually fail in the NT, releasing injected chemicals and related material, back into the fractured rock layers, where they may mix with the hypersaline waters of the Moroak Aquifer before finding their way into surface waterways. This includes the Limmen National park waterways, the McArthur River and other flows out of the catchments in the area both above and underground.

The problem of well casing corrosion is extensive in the USA[12]. A root cause analysis of the 2015 Aliso Canyon blowout determined that surface corrosion on the outside of well casing caused by prolonged contact with groundwater and microbes, most likely methanogenic Archaea, was the underlying cause of the corrosion.

There are many examples of corrosion problems affecting infrastructure in the NT.

In 1998 the Adelaide River Bridge partially collapsed due to the impact of corrosive bacteria[13].

The effect of corrosive water on cementing and casing in the NT is demonstrated by deep oil exploration wells (McDills and Dakota) drilled in the Perdika/Great Artesian Basin in the 1960s (the Perdika Basin is one of the prospective unconventional shale gas areas of the NT). Now, some fifty years later, the steel casing has almost entirely corroded away, resulting in inter-aquifer contamination. These wells required expensive rehabilitation work to stem artesian flow. A single bore cost the Territory and Commonwealth Governments $500,000 to plug (1960s prices), as the company responsible for the well was insolvent.

This example highlights the issue of operator insolvency due to the boom and bust cycles of oil and gas development which complicates efforts to hold liable parties responsible and provide for timely remediation.

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[10] https://www.einpresswire.com/article/480473562/xpandable-patches-to-extend-the-life-of-corroded-csg-wells-in-queensland-australia

[11] Personal correspondence, Charles Albouy, Saltel Industries

[12] Concerned Health Professionals of New York, & Physicians for Social Responsibility. (2020, December). Compendium of scientific, medical, and media findings demonstrating risks and harms of fracking (unconventional gas and oil extraction) (7th ed.). http://concernedhealthny.org/compendium/

[13] NT News August 27th 1998

The hypersaline nature of the deep aquifers and the high temperature further raises concerns about the integrity of the wells with both deep corrosion risks and closer to surface risks. There is a major concern among stakeholders that integrity failure will connect the hypersaline deep aquifers like the Moroak to beneficial fresh water systems like the Gum Ridge aquifer. This poses a massive risk to the human and animal use of the region in the medium and long term and is clearly a breach of ESD principle of intergenerational equity.

The future risks imposed on Territorians and other economic sectors are completely inappropriate and are a clear breach of the EPBC act provisions relating to ESD and the precautionary principle. The Samuels report[14] clearly articulates the failures of jurisdictions such as the NT to enforce the EPBC act and its embedded principles. The NT Government espouses the ESD principles as the guiding principles in its decision making in relation to the processes around fracking yet it does not appear to be implementing these principles. The principles must be applied to the review of this EMP.

Insufficient baseline knowledge, policy certainty and regulatory safeguards

The environmental risks of onshore gas activities, especially in relation to groundwater, cannot be considered adequately mitigated to an acceptable level in the absence of a comprehensive understanding of baseline environmental values in the Beetaloo, a clear policy for the avoidance of additional greenhouse gas emissions from onshore gas, coherent and enforceable protections for water resources, and the full implementation of all other Pepper Inquiry recommendations.

The final risk assessment cannot be made until the SREBA is complete[15] and as this proposal is such a large contributor to greenhouse emissions and other risks it is not able to be approved without an EIS.

The Pepper Inquiry undertook extensive desktop and primary research, and consulted a broad range of scientific, regulatory, industry and community stakeholders, in its assessment of the potential environmental impacts of hydraulic fracturing in the NT. Its conclusion was that there were significant gaps in knowledge about surface and underground water resources, hydrogeology, and aquatic and terrestrial ecosystems in the NT, which prevented an adequate assessment of the risks to environmental values posed by onshore gas.[16] The Inquiry accordingly recommended the completion of a Strategic Regional Environmental Baseline Assessment ('SREBA') for prospective onshore shale gas regions, with the Beetaloo to be prioritised.[17] This has not yet been done. The nature and scale of impacts on the NT's water resources and biodiversity values from onshore unconventional gas activities are not yet known. This means that it is currently irresponsible and potentially unsafe to allow such activities to proceed. In addition, while this EMP may cover 'exploration and appraisal' rather than 'production' activities, and as a result arguably have a smaller environmental footprint, it is unclear why the NTG would consider it appropriate to allow any steps towards the

[14] Samuel, G 2020, Independent Review of the EPBC Act—Interim Report, Department of Agriculture, Water and the Environment, Canberra.

[15] Pepper report page 39

[16] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 133.

[17] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), Rec. 7.5.

development of a full-scale onshore gas industry, and associated environmental impacts, when it has not yet ascertained whether such an industry could safely and sustainably operate.

In recognition of the principles of ecologically sustainable development ('ESD principles'), the Pepper Inquiry recommended that the NT and Australian Governments seek to ensure that there is no net increase in the life cycle GHG emissions from onshore gas produced in the NT.[18] Although at the exploration stage of its gas project trajectory, In the absence of a completed, evidence-based and realistic greenhouse gas emissions offsets policy, it is not clear that emissions from onshore gas - including those created through the appraisal activities in this EMP - can successfully and economically be offset. The catastrophic consequences of further unmitigated greenhouse gas emissions for the world's climate are well-documented, and will have severe consequences for health and livelihoods in the Northern Territory. Without a viable plan for offsetting the emissions onshore gas, the emissions resulting from this EMP's activities and other steps towards the production of unconventional gas in the Beetaloo pose an environmental risk that cannot be said to be properly mitigated.

The NTG committed to developing a Water Allocation Plan ('WAP') or WAPs for the aquifers within and adjacent to the Beetaloo as part of its response to the Pepper Inquiry's final report in 2018. No such WAPs have yet been developed. This means that there is no way of knowing whether the enormous amounts of water required by Origin and other gas companies pursuing appraisal activities in the Beetaloo can safely and sustainably be allocated without impacting other water users, including townships, Indigenous communities, pastoralists and other businesses. While these companies must obtain licences to extract groundwater, these licences are considered and granted in isolation and rarely, if ever, informed by an overarching understanding of the cumulative impact of water consumption on water resources. Indeed, unless and until a SREBA is completed for the Beetaloo aquifers, such an understanding does not exist. This is a serious gap in the regulatory framework required to safeguard NT water, and must be filled to successfully mitigate the risks of activities like those in the EMP.

Fracking should not be permitted until all Pepper Inquiry recommendations are fully implemented. We note that in the EMP, Origin states at the outset of its risk assessment that 'the adoption of all recommendations by the NTG, the new Code of Practice and associated regulatory changes provides a high level of inherent protection to ensure activities are undertaken in a safe and consistent manner'.[19] This is concerning, as the recommendations have not actually been implemented and thus the 'inherent protection' relied upon by Origin cannot be said to exist, undermining the integrity of its risk matrix.

The cumulative impact assessment

The EMP's cumulative impact assessment is restricted to Origin's existing wells (in the Beetaloo only), This is problematic for three reasons.

First, it ignores the impacts of other gas companies' exploration and appraisal activities in the Beetaloo, even though these activities have the same kind of regional environmental impacts as Origin's own and therefore clearly 'accumulate'. This issue was raised by the Pepper Inquiry, which noted the potential for 'exploration creep' if the cumulative impacts of

[18] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), Rec. 9.8.
[19] EMP, 167.

exploration activity are not assessed on a regional basis.[20] The Regulations were amended at the recommendation of the Pepper Inquiry to require a cumulative assessment as a way of protecting against intensive exploration activity across multiple EPs inadvertently resulting in production-level environmental impacts before its recommendations were fully implemented. Origin's interpretation of the Regulations does not align with the clear intention of the amended Regulations, and the EMP therefore falls short of the standard required for approval under the framework.

A second, similar, issue with this approach is that the environmental impacts of other industries in the region are also excluded, despite these industries also having similar consequences for the environment, such as extraction of groundwater, land clearing and increased noise, traffic, dust and light pollution.

Thirdly, this approach makes it difficult for the public (or the regulator) to evaluate Origin's risk assessments and conclusions, undermining the effectiveness of the EMP process. For example, Origin assesses that the 'increased industrialisation of landscape resulting in a loss of amenity and tourism value [is] considered low due to limited extent of petroleum activities.'[21] Without an indication of the full scale of current and planned appraisal activity across the Beetaloo, it is difficult to know whether this is a fair assessment of the risk.

Finally, it contradicts Origin's own assessment of its objectives for a Beetaloo gas industry which, as illustrated in Figure 8 of the EMP, posits a large-scale gasfield comprising 400-500 wells. If Origin is planning for, and hoping to achieve, development on this scale, then the consequences of that development should be included in its assessment of the cumulative impacts of its plans. There is no valid reason for Origin to exclude 'what could eventuate if a successful result was achieved', and this approach does not align with the evident intention of the Regulations.

The EMP's greenhouse gas emissions assessment

The EMP's assessment of the climate change impacts of the proposed activities is lacking in supporting evidence and downplays the scale of Origin's greenhouse gas emissions. It fails to take into account either the emissions from other companies' exploration activities in the Beetaloo, or emissions from its own previous and current works. The summary and assessment therefore mischaracterises the cumulative greenhouse impacts of exploration in the Beetaloo and disguises the actual scale and contribution of its own emissions.

Our calculations show a cumulative emissions total across the Beetaloo of some 2074285.1 tCO2-e. There is a clear need for a review of the cumulative impacts of exploration.

Furthermore, Origin states that 'no material emissions are anticipated' from most of the activities that are included in the summary. No evidence is provided for this, no definition of 'material emissions' is provided, and it is unclear why activities like 'civil construction' are not expected to result in emissions. The greenhouse gas discussion also includes unfounded assertions like 'a future shale gas development will be net zero 1 and 2 emissions',[22] while the contention that 'the current net climate benefits of using natural gas in replacing coal for

[20] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 413-4.
[21] EMP, 93.
[22] EMP, 81.

electricity generation is up to 50% less emissions'[23] is irrelevant considering that, per Origin's own statements about the 'early' stage of its exploration project, any substitution of Origin-produced Beetaloo gas for coal could not be expected to occur for at least 3 years. Overall, the EMP fails to provide assurance that the serious climate consequences of the proposed activities have been either adequately identified or mitigated against.

Real risks to subsurface groundwater dependent ecosystems and stygofauna.

Subsurface water systems are home to complex ecosystems, with underground organisms - 'stygofauna' - physiologically adapted to the comparatively low nutrient and oxygen, sunlight-free aquifer environment. Relatively little is known about stygofauna around Australia and especially in the NT, but there is evidence that the 'feeding, movement and excretion by diverse assemblages of stygofauna potentially enhance groundwater ecosystem services such as water purification, bioremediation and water infiltration.'[24] As a result, jurisdictions around Australia recognise the ecological and biodiversity value of stygofauna, and have introduced regulation to protect subsurface groundwater-dependent ecosystems.[25]

The Origin EMP downplays the significance of the risks fracking poses to groundwater. It is essential that appropriate research is conducted to answer some of the critical questions relating to the newly-discovered stygofauna and to provide a better understanding of the nature and extent of risks fracking poses to stygofauna. As the regulator it is the NT governments responsibility to do this.

In an area such as the Beetaloo Sub-basin the availability of groundwater, and its quality, are essential factors in supporting the ability of people to live in the region and the region's ability to support a range of agricultural practices. The consequences of the inability to use this groundwater would be catastrophic for the region and those connected areas via the regional underground flows.

The genetic similarity of the *Parisia unguis* shrimp species found at sample sites more than 300km apart adds to existing evidence of the interconnectedness of aquifers in and adjacent to the Beetaloo Sub-basin

The eDNA analysis of the freshwater shrimp, *Parisia unguis*, shows the systems are highly connected and along with the water studies[26] released in 2020 show that pollutants can move over a significant distances and quite quickly.

Stygofauna are a very important element of groundwater and we now know there are extensive and unique stygofauna assemblages in the underground waterways in the Bettaloo

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[23] EMP, 81.

24 Andrew J et al, 'Biodiversity, functional roles and ecosystem services of groundwater invertebrates' (2008) 22 Invertebrate Systematics 103.

[25] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 115.

[26] Huddlestone-Holmes CR, Frery E, Wilkes P, Bailey AHE, Bernadel G, Brandon C, Buchanan S, Cook SB, Crosbie RS, Evans T, Golding L, Gonzalez Dda, Gunning ME, Hall LS, Henderson B, Herr A, Holland K, Jarrett A, Kear J, Kirby J, Lech M, Lewis S, Macfarlane C, Martinez J, Northover S, Murray J, O'Grady A, Orr ML, Owens R, Pavey C, Post D, Sundaram B, Rachakonda P, Raiber M, Ransley T, Tetreault-Campbell S and Wang L, (2020) Geological and environmental baseline assessment for the Beetaloo GBA region. Geological and Bioregional Assessment Program: Stage 2. Department of the Environment and Energy, Bureau of Meteorology, CSIRO and Geoscience Australia, Australia.

Sub-basin. Their probable role in groundwater quality shows risks to them could have very significant implications.

> *the links between biodiversity, ecosystem function, and ecosystem services in groundwater are unknown. In some aquifers, feeding, movement and excretion by diverse assemblages of stygofauna potentially enhance groundwater ecosystem services such as water purification, bioremediation and water infiltration. Further, as specific taxa apparently play 'keystone' roles in facilitating ecosystem services, declines in abundance or even their extinction have serious repercussions.* [27]

Stygofauna are adapted to conditions of constant temperature, no sunlight, and low nutrient (particularly carbon) and oxygen content in the groundwater environment.

The aquifer food web is based on inputs of carbon and nutrients that filter from the surface and so stygofauna are most abundant in shallow aquifers where food supply and oxygen are generally more plentiful.

The Pepper inquiry noted the uncertainty of the implications for groundwater as no studies had been done to determine the presence of stygofauna in the Beetaloo region nor were there any research findings that could help with the risk assessment relating to the risks fracking-related processes would create for stygofauna in the underground water.

> *Recommendation 7.20*
>
> *That the Beetaloo Sub-basin SREBA must identify and characterise all subterranean aquatic ecosystems, with particular emphasis on the Roper River region. P 165*
>
> *The Panel is not able to comment on the potential consequences to any stygofauna present if an aquifer is contaminated because there is no toxicity data available for these animals. However, as stated above, a more detailed assessment of stygofauna should be part of the recommended strategic regional environmental baseline assessments recommended by the Panel. P166*
>
> *However, an assessment of the possibility that groundwater biodiversity (stygofauna and GDEs) may be affected by over extraction or contamination of groundwater can only be done after the recommended SREBA is completed (Recommendation 7.5). P 166*

The panel also made clear the need to develop a better understanding of risks:-

> *the concentrations of dissolved oxygen through the aquifer need to be determined to inform the potential for degradation of fugitive methane in groundwater by aerobic or anaerobic microbial pathways (see Section 7.6.1), and the potential for the occurrence of stygofauna; P 445*

Stygofauna are a very poorly understood species, especially in the Northern Territory. The discovery of 11 new species in the Beetaloo groundwater studies is but one example.

[27] Andrew J. Boulton A,D, Graham D. Fenwick B, Peter J. Hancock A and Mark S. Harvey C ,2008 'Biodiversity, functional roles and ecosystem services of groundwater invertebrates', Invertebrate Systematics, 2008, 22, 103–116

The release of preliminary research into the water systems of the Beetaloo area in the Northern Territory have confirmed the existence of extensive populations of unique stygofaunal organisms, many of which are new species to science[28]. There were 11 species new to science in the initial survey[29](note there further and more widespread surveys are needed). Low genetic variation in the freshwater shrimp species, *Parisia unguis,* from sources hundreds of km apart confirm the water systems of the region are interconnected, it's essentially one big connected system. (you don't get such low variation if there are separate systems in the basin)

> *The presence of this species, ranging across a geographic distance of ~300 km, and the low genetic divergence (maximum 3.9% in COI and 3.29%in 16s RNA gene) among specimens indicate groundwater connectivity in recent times.*[5]

Even in previous reviews of knowledge such as the CSIRO-led stygofauna in Australian groundwater it is clear that there are significant knowledge gaps in Australia. Origin's attempts to use this coal funded project to rationalise the threats fracking poses to stygofauna in the NT are simplistic, inaccurate and go against the Pepper Inquiry recommendations, especially the SREBA elements. There needs to be a much more detailed study of the risks to stygofauna created by changes to their environment caused by fracking processes before any further fracking, even exploratory, is allowed.

Stygofauna in the Beetaloo sub-basin are clearly different from species in coal seam and other gravel substrate systems. They are in karst systems that contain large sub-surface aquatic habitats. The the large shrimp species, *Parisia unguis*, appears to be endemic to the NT but to have a high degree of mobility within Cambrian Limestone Aquifrer (CLA) karst systems. It is possible that smaller stygofaunal species, such as amphipods, ostracods and copepods, may be more restricted, i.e., endemic, to specific areas or habitats within the CLA. Further surveys are needed to more fully understand the distribution of stygofauna within the region.

To allow these fracking processes to proceed without developing a clear understanding of the risks is a clear breach of both the Principles of Ecologically Sustainable Development (ESD) and the Precautionary Principle, both of which are guiding principles of the government policy and decision making in relation to the fracking EMPS's. They are also supposedly guiding principles of the Environmental Protection Authority (EPA).

These risks include water level changes and a change in dissolved oxygen concentrations in the groundwater, chemical susceptibilities of stygofauna, including Lethal Dose (LD50) information, and issues relating to changes in groundwater attributes and the complex food webs within these subterranean water bodies that may impact on stygofaunal species, which are renowned for being sensitive to changes.

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[28] Gavin Rees, Stefanie Oberprieler, Daryl Nielsen, Garth Watson, Michael Shackleton and Jenny Davis, 2020 "Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory " GISERA project number: W18. December 2020

[29] https://theconversation.com/blind-shrimps-translucent-snails-the-11-mysterious-new-species-we-found-in-potential-fracking-sites-155137

[5] Oberprieler, S, Rees, GN, Nielsen, D, Shackleton, M, Watson, G, Chandler, L. and Davis, J, (2021) Connectivity, not short-range endemism, characterises the groundwater biota of a northern Australian karst system. Science of the Total Environment. 796:148955. https://doi.org/10.1016/j.scitotenv.2021.148955

There are also a series of questions that the Pepper inquiry raised that need to be answered in relation to the complex foodwebs, organisms and interactions that the introduction of carbon and other elements, especially biocides, might disrupt. These include

> *the concentrations of dissolved oxygen through the aquifer need to be determined to inform the potential for degradation of fugitive methane in groundwater by aerobic or anaerobic microbial pathways (see Section 7.6.1), and the potential for the occurrence of stygofauna;*
>
> *the baseline concentrations of major ions must be established through the aquifer profile to provide a reference condition against which leakage of flowback water from a well, or from a surface spill contaminating the groundwater, can be assessed. Pepper Inquiry Report Page 445*

The GISERA-funded pilot study revealed a complex assemblage of new species and the presence of a very large (by stygofauna standards) predatory shrimp species. The presence of such a large predatory species indicates a significant and complex food web. Many risk factors are indicated by the literature about stygofauna.

As an example, leakage of methane into aquifers can lead to food webs being disrupted, resulting in a significant negative impact on water quality through an increase in microbacterial blooms, triggered by the methane. These changes can lead to water being unfit for human consumption and de-oxygenation of water.

Normally, The limited supply of carbon reaching groundwater restricts the productivity of the ecosystem considerably, and constrains pristine aquifers to generally being low-energy environments, with, low biomass and low abundance of microbial and invertebrate fauna. Consequently, stygofauna live in environments with limited food supply.[30]

These underground systems are “nutrient deprived” but the sudden injection of pollutants such as drilling mud will introduce significant levels of carbon and related food sources for bacteria into these systems.

As an example, the Well Completion Report (WCR) drilling log file for Tanumbirini 1[31] showed approximately **21 million litres** of these drilling mud fluids were lost in the first 400 metres of the drilling process. Whilst the industry strategy of deliberately not publishing specific details of the chemical composition of the products they use, in contravention of the Pepper recommendations, make it difficult to be clear as to what they contain they will contain carbon, and are likely to have traces of biocides, most likely ALDACIDE G biocide[32]. Origin mentions that all chemicals used are low toxicity but this chemical’s Material Safety Data sheet reveals it is a Category 1 Acute Aquatic toxin rated H400 - Very toxic to aquatic life And in terms of longevity Category 3 H412 - Harmful to aquatic life with long lasting effects. It is completely unacceptable to allow these chemicals into aquifers where stygofauna live.

Biocides are very toxic chemicals to aquatic organisms. Stygofauna are known to extremely sensitive to chemicals. Biocides carry warnings such as: extremely toxic to aquatic organisms,

[30] Stygofauna in Australian Groundwater Systems: Extent of Knowledge P 3.

[31] https://geoscience.nt.gov.au/gemis/ntgsjspui/handle/1/83784

[32] Origin EMP page 48

has long lasting impacts[33]. They must not be allowed to escape into ecosystems containing the newly discovered and as yet largely undescribed stygofauna. There is evidence that traces of these chemicals are in drilling mud.[34]

There is no specific testing data to show just how toxic these chemicals would be to stygofauna, which is part of the reason the precautionary principle must be invoked to stop this process. Stygofauna are known to be very sensitive to chemicals and disturbance. It is probable that these chemicals will cause changes in the stygofauna assemblages and disrupt their ecosystem service function.

The Pepper Inquiry was unable to make conclusive assessments about the potential impacts of hydraulic fracturing on stygofauna and subterranean aquatic ecosystems due to a near complete lack of information about these organisms and ecosystems in the NT.[35] However, the Inquiry did state that such ecosystems are 'likely to be susceptible to excessive groundwater use and any contamination from shale gas hydraulic fracturing operations'.[36]

In order to fill these knowledge gaps and develop the understanding of stygofauna essential to assessing the risks posed by onshore unconventional gas activities, the Inquiry recommended that the SREBA identify, characterise and provide measures to protect all subterranean aquatic ecosystems in the Beetaloo Sub-basin.[37] As discussed earlier, the Beetaloo SREBA has not been completed and Origin's fracking should not be allowed to proceed in the absence of this essential baseline data.

Origin ignores these Beetaloo-specific findings in its EMP, instead relying on high level and generic indicators from a 2015 summary paper on stygofauna across Australia to conclude that stygofauna are unlikely to be affected by its proposed activities.[38] This means that the EMP does not adequately identify or address risks to stygofauna and the ecosystem services they provide posed by the proposed activities, nor does it support the Minister to make a decision in accordance with the principle of evidence-based decision-making under section 20 of the Environment Protection Act 2019. This principle applies to the Minister's decision to approve an EMP, and dictates that decisions should be 'based on the best available evidence in the circumstances that is relevant and reliable'.

The SREBA and the specific research to characterise the Beetaloo's subterranean aquatic ecosystems are still underway, with further and more widespread surveys required. There are still huge gaps in our understanding of the distribution, vulnerabilities and ecosystem roles of stygofauna in the region. These gaps mean that it is impossible to be certain about the potential impacts of unconventional gas exploration (and production) activities on stygofauna, including from changes to dissolved oxygen levels in aquifers, the presence of drilling and fracturing chemicals, and leakage of methane into groundwater systems. Any of these

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[33] *Environ. Sci. Technol.* 2015, 49, 1, 16−32 Publication Date: November 26, 2014 https://doi.org/10.1021/es503724k

[34] Environment Management Plan , Imperial Oil & Gas 2021-2025 EP187 Work Program NT Exploration Permit (EP) 187, www.haveyoursay.nt.gov.au

[35] See Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, Final Report (April 2018), 128, 166.

[36] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, Final Report (April 2018), 128.

[37] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, Final Report (April 2018), recommendations 7.19 and 7.20.

[38] EMP, 147.

occurrences would change the chemical composition of underground water, impacting the habitat and food sources of resident ecosystems, while little is known about the susceptibility of stygofauna to chemicals used by the gas industry. The lack of comprehensive characterisation of stygofauna assemblages also undermines their potential as an indicator or reference point for aquifer purity and health, which could otherwise help to monitor and protect these groundwater systems.

In the absence of sufficient knowledge to understand and properly mitigate against the risks to stygofauna and underground ecosystems, the precautionary principle and the principles of ecologically sustainable development dictate that caution must be exercised and exploration activities suspended unless and until these knowledge gaps are filled. A decision to approve the EMP in these circumstances would fail to fulfil the Minister's obligation to consider and apply these principles in her decision.

Assessment of the impacts on flora and fauna, including endangered species.

Origin's assessment of the risks to threatened species found in exploration areas is founded on inadequate baseline monitoring and lacks evidence to support its conclusions about the minimal impacts to local wildlife. The surveying program used to develop an understanding of the local flora and fauna populations in the project areas is somewhat unclear. At various points, the EMP refers to 'previous surveys and database searches' (no date or other details), incidental fauna[39] 'incidental fauna surveys at Amungee NW in 2021',[40] 'recent surveys' (no date or other details),[41] 'surveys undertaken elsewhere in the region' (no location or date details),[42]

The EMP relies heavily (both directly and via the LCA) on the results of desktop reviews of online databases, with the LCA used to verify database results and determine the actual likelihood of potentially occurring threatened species in fact being found in the project areas (and therefore the scale of environmental impacts). This is problematic for two key reasons.

First, the surveying exercises appear to be ad hoc and patchy, and therefore unable to provide an adequate basis for conclusions about the presence and impacts on local wildlife. Notably, there is no evidence provided of any direct flora or fauna surveying of the Velkerri 76 S2,and the reference to the 'most recent vegetation survey' in August 2018 includes the statement that 'as the survey was conducted during the late dry season, grasses and other annual species were difficult or impossible to identify'.[43] As acknowledged in subsequent sections of the EMP, grasses provide vital habitat and food sources for various threatened species, including the Gouldian Finch, and the reliance on an incomplete and out-dated vegetation survey is highly concerning.

Second, the databases used as the primary basis for the flora and fauna risk assessments do not provide accurate and comprehensive information about the distribution of species in the NT. The absence of comprehensive information about the biodiversity assets of regions including the Beetaloo was a key concern of the Pepper Inquiry, which recommended that the

[39] EMP, 160.
[40] EMP, 134.
[41] EMP, 161.
[42] EMP, 161.
[43] EMP, 159.

SREBA include terrestrial biodiversity assessments of potential onshore gas development areas and that no gas activities be allowed in areas found to have high conservation value.[44] These recommendations have not been fulfilled, and the databases relied upon by Origin and its contractor as the basis for its assessment of the risks to significant fauna remain highly unlikely to give an accurate idea of the presence and vulnerabilities of wildlife in the Beetaloo. In the absence of complete databases, and given the fragmented populations of species such as the Gouldian Finch, on-the-ground monitoring is crucial. The fact that no such surveying has been undertaken by Origin indicates that its assessment of the 'low' risk to local fauna is unsupported.

The EMP also proposes the use of uncovered ponds to store wastewater, including fracking flowback fluids. This storage method allows for the evaporation of waste liquid, condensing toxic waste and resulting in lower transportation and disposal costs for the company. Due to the risk of spills during extreme rainfall events in the Territory's wet season, and the potential for access to toxic wastewater by wildlife, the Pepper Inquiry recommended that all wastewater should be stored in enclosed tanks.[45] Open wastewater tanks pose a clear risk to birds who consume, or fall into and can't escape from, the contaminated water they contain. Other environmental impact assessments for mining projects, and the Federal Government's Geological and Bioregional Assessment for the Beetaloo, have identified the toxicity of accessible mine waste water as a specific threatening process for Gouldian Finches.[46]

The proposed activities are in the vicinity of wetlands that accommodate both numerous bird species, while threatened bird species including the Gouldian Finch are listed as occurring within the exploration area. Full mitigation of the toxicity risk to birds requires wastewater to be stored in enclosed tanks at all times. At the very least, tanks should be covered by a net to prevent access to wastewater and some form of escape ramp. Neither of these readily available measures is proposed in the EMP, meaning that the risk has not been reduced to a level that is as low as reasonably practicable. Instead, Origin makes the questionable conclusion that although the endangered Gouldian Finch is likely to occur within the exploration area, and there is wet season foraging habitat on-site.[47] No real explanation is provided as to why finches would choose to travel to other water sources, especially when the open wastewater ponds will remain unattended (and uncovered) for large periods of inactivity over the EMP timeline.

Open air wastewater tanks pose unacceptable risks to biodiversity

Open water storages should be not allowed in line with recommendation 7.12 of the Pepper Inquiry. To allow these pits to be constructed will lead to dramatic and unacceptable changes in biodiversity and create enormous risks that would not be present if enclosed tanks were used.

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[44] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 185-6.
[45] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), recommendation 7.12.
[46] Redbank Copper Ltd, 'Redbank: Gouldian Finch Management Plan' (2010), 9; Australian Government and CSIRO, 'Persistence of Gouldian Finch' <https://gba-explorer.bioregionalassessments.gov.au/bee/items/item/15/0>..
[47] EMP, 135.

The work done on the birdlife assessment is inadequate. Data deficient systems cannot be relied upon for desktop surveys.

Open storage tanks and evaporation pits almost guarantee that these issues will manifest and action like appropriate screening must be an absolute minimum response.

The evaporation process means concentrations of chemicals and other pollutants will be increased in the open air ponds. It is impossible to prevent birds from accessing these toxic open air ponds. We do not want to discover that bird species are in the area when their dead bodies are found in an evaporation pond.

Anecdotal evidence from ongoing discussions with land holders and traditional owners in the proposed drilling area highlights the impact that a record breaking hot and dry season has had on local water and wildlife. Birds and other wildlife are relying on limited water. If activities were to introduce bodies of open water in the area through open storage ponds, these would undoubtedly receive significant visitation from thirsty wildlife. This could poison wildlife and spread contamination.

Birds, especially honeyeaters and other species, dip bathe and drink on the wing. They would also be able to land on the slope of the liner covered banks. There are too many risks associated with the design of the pond systems to be acceptable. If this practice is to be allowed netting must be used to exclude birds. As an example, the EMP on page 135 dismisses the risk to Painted honeyeaters yet they are precisely the type of bird that would dip bathe.

Figure 1 Dip bathing Honeyeater

Most bird taxa have a gland at the base of the tail, the uropygial or preen gland. The oil it produces keeps the feathers flexible and assists the interlocking barbules to stay intact, thus forming a barrier that helps repel water and insulate the bird. In the case of waterbirds, preening oil helps them stay afloat, and without it birds may even drown.

Chemicals like surfactants can alter the efficacy of waterproofing elements in their feathers, rendering them flightless and vulnerable to predation. Birds may also die because surfactants

reduce the ability of feathers to act as insulation in cold weather, and have been used in the USA to control populations of pest species (Lustick, 1976). Clearly the open water systems need to be effectively netted with small enough mesh to exclude small honeyeaters and finches as well as species like friarbirds.

Statements like that on page 38 that chemicals are commonly found in household substances, and are a simplistic attempt to downplay significant risks that exist and are increasingly coming into research evidence. They are not relevant for most of the chemicals in question.

Amphibians

The fencing around freshwater storages and all other water needs to be frog proof, and not just have wildlife ladders installed. Native burrowing frogs are likely to try to access standing water. This highlights one of the risks relating to holding polluted water in open evaporation ponds in that it is likely to attract native species who cannot detect the pollutants. This includes elements like surfactants which are not a human health issue but a massive issue for many non-human species, especially amphibians.

Low walled water storage areas, even if pumped dry, will have residues, and when rains come they will attract frog species.

There are many unknowns about this region's biodiversity. This is especially the case with endemic frogs. There is a need to determine the range of the water-holding frog Litoria platycephala and to determine whether the species in the McArthur/ Beetaloo area is in fact a different species.

Plastic lined pits can be death traps for many species of native frogs that do not have toe pads. Plastic pits have been used as traps for some frog species. The risk includes many of the burrowing frog fauna in the Beetaloo region. These species are likely to move to standing water bodies to breed. The pits should not be allowed, but if they are they need to be carefully designed. This elevated risk includes the period over the wet season where the pits may be emptied to avoid them overflowing. They will still collect water and become frog breeding sites, especially for burrowing frogs. Any residues remaining will cause problems. Surfactants are highly toxic to native frog tadpoles at very low concentrations.

The cane toad Rhinella marina is a major threat to a number of animal species, with population level declines documented (Doody 2004, 2006, 2009)[48]. Allowing open water storage pits will dramatically increase cane toad numbers in the region with broad biodiversity implications.

Doody (2009) concludes, " We observed population-level declines in Australian predatory lizards caused by the arrival of an invasive species, Bufo marinus, at two sites along the Daly River. In contrast, there were no significant declines in populations of Crocodylus johnstoni. Amphibolurus gilberti populations increased substantially, presumably due to the losses in

[48] JS Doody, B Green, R Sims, D Rhind, P West, D Steer (2006). Indirect impacts of invasive cane toads (Bufo marinus) on nest predation in pig-nosed turtles (Carettochelys insculpta). Wildlife Research. J. S. Doody B. Green D. Rhind C. M. Castellano R. Sims T. Robinson (2009). Population-level declines in Australian predators caused by an invasive species. *Animal Conservation* Volume12, Issue 1.

Varanus panoptes, a known predator of this species. These findings indicate that the invasion of B. marinus into this ecosystem caused a structural change in the lizard community. Changes in the abundance and community structure of these top predators may alter species interactions, in particular patterns of predation and competition, and the energy dynamics of the ecosystem. Recovery from low numbers, and possibly local extinction, may depend on the control of Bufo marinus, and/or the recolonization from individuals from the surrounding landscape"[49].

Further personal communication with the author indicates follow up surveys showed some species, like Varanus panoptes and Varanus mitchelli, are no longer present at the survey sites. Follow up work in the Kimberleys reinforced the initial findings from the NT and indicated a broader range of varanid species were impacted.

Many areas of the NT were originally thought to be too dry for cane toads to colonise but this has been shown to be incorrect. The main reason toads have been able to colonise large areas of semi-arid and arid NT is because of the use of open water storage in the cattle industry. The creation of such spaces for water and wastewater storage will enable cane toads to seek refuge and breed in the area. The local cane toad population would be massively increased if open water pits were introduced.

This is particularly destructive of varanid populations and other reptile species. Introducing standing water bodies into an area will not only cause the cane toad population to increase, but will result in cane toads breeding at the sites. This introduces a size class of cane toads into the area that would not be occurring without the water pits, which in turn causes dramatic declines and even local extinctions of smaller Varanid species and the juvenile stages of the larger Varanid species such as V.panoptes, V.gouldii and V.mertensii.

Species that will be impacted negatively are likely to include:

Varanus acanthurus	Ridge-tailed Monitor
Varanus baritji	Black-spotted Ridge-tailed Monitor
Varanus mertensi	Merten's Water Monitor
Varanus mitchelli	Mitchell's Water Monitor
Varanus scalaris	Spotted Tree Monitor
Varanus tristis	Black-tailed Monitor

[49] J. S. Doody B. Green D. Rhind C. M. Castellano R. Sims T. Robinson (2009). Population-level declines in Australian predators caused by an invasive species. *Animal Conservation* Volume12, Issue 1.

Tiliqua scincoides	Common Blue-Tongued Lizard or potentially Centralian Bluetongue.
Varanus panoptes	Yellow Spotted Monitor
Varanus gouldii	Sand Monitor

There is also research indicating impacts on smaller lizard species due to large toad populations. In a two-year study in the Roper River region of the Northern Territory, Catling et al. (1999)[50] found that high cane toad densities were associated with a significant reduction in the abundance of small lizards, possibly caused by reducing their invertebrate food supply. Like so many of these aspects of the local environment, there is a deficiency of data that should be addressed before any such changes are created in the local environment.

There are additional issues with the use of chemicals, and this puts the wastewater elements of this plan in a particularly high-risk category. Surfactants and many other chemicals are especially toxic for frogs and have implications for other species such as birds. Even if the pits are emptied, there will be residues from wastewater present which will most certainly impact wildlife.

Management of drilling waste and well integrity.

The EMP does not contain sufficient specificity or certainty about the mitigation of environmental risks from wastewater and drilling muds to indicate that these risks have been reduced to an acceptable level that is as low as reasonably practicable. Origin states that '[a] low toxicity water-based drilling mud is anticipated to be used', that 'other low toxicity chemicals … may also be used' and that 'synthetic based muds … may be utilised to drill the horizontal and intermediate section of each of the wells'.[51] Overall, sections on drilling fluids, muds and cuttings mostly comprises generic information and does not provide an adequate foundation for an evaluation of the potential environmental impacts of drilling materials.

Low toxicity is not adequately defined as the drilling mud is going to come in contact with, and leak into, groundwater containing Stygofauna. This should not be allowed until toxicity testing is done in relation to these compounds and Stygofauna, and issues relating to the leaking of drilling mud and possible impacts on bacterial blooms and the possible de-oxygenation of undergound water systems are fully evaluated.

Similarly, section 4.15.2.3 does not provide a clear treatment pathway for drilling muds. If drilling waste cannot be disposed of onsite, including because it is incompatible with surrounding soils or 'otherwise inappropriate' (presumably too toxic), the EMP states that it 'may be left in-situ across the wet season'.[52] No information is provided as to how the risk of

[50] Catling, P.C., Hertog, A., Burt, R.J., Wombey, J.C., and Forrester, R.I. (1999). The short-term effect of cane toads (*Bufo marinus*) on native fauna in the Gulf Country of the Northern Territory. *Wildlife Research* **26**:161-185.

[51] EMP, 32.
[52] EMP, 61.

run-off and dispersal of this potentially toxic waste into the environment during wet season monsoon events would be prevented.

Absolute well integrity is essential to ensuring that methane and industry chemicals do not leak into surrounding strata and, especially, groundwater systems during the shallower stages of drilling. The Gum Ridge and Anthony Lagoon formations of the CLA sustain the baseflow and riparian ecosystems of the Roper and Daly Rivers, as well as the Elsey National Park and the Mataranka springs major tourist attraction. There is strong evidence of interplay between the formations of the CLA, meaning that contamination of an aquifer at the Origin exploration sites would not remain confined to that area, but could spread to adjacent locations and ecosystems. The casing of Origin's existing Amungee NW-1H exploration well experienced a deformation which resulted in the cessation of fracture stimulation at the well. This event is only acknowledged once in the EMP, which states that 'this was not considered a major hazard'.[53] There is no evidence provided about who made this assessment or why, nor any indication of measures implemented by Origin to ensure that a similar deformation does not occur in the drilling and casing of its proposed wells. In combination with the fact that neither the Well Operations Management Plan nor the Well Integrity Management Plan for the proposed wells are made public, legitimate concerns arise as to Origin's ability and preparedness to ensure the integrity of its proposed exploration wells.

Origin Energy's engagement with Traditional Owners, and its assertions about the social and economic benefits of its Beetaloo plans

We note with concern that some Traditional Owners with responsibility for country within these lease areas have raised serious concerns about the failure of Origin Energy to gain their free, prior and informed consent. Origin Energy appear to have consulted narrowly in relation to specific exploration wells only, thus disenfranchising other First Nations people with an interest in the consequences of exploration which will occur over much larger areas. We fully support Traditional Owner aspirations for a full participatory role in decision-making which they have raised in various fora and believe they should rightly be considered and treated as full stakeholders in relation to these EMPs. We also note that Australia is a signatory to the UN Declaration on the Rights of Indigenous Peoples, which protects First Nations people's rights to self-determination and to any consent for projects given to be free, prior to projects' commencement, and fully informed.

Origin has not provided adequate assurance that the environmental costs of its planned activities in the NT will be counterbalanced by tangible benefits to affected communities. The EMP states that 'the potential social and economic effects associated with the proposed exploration activities are considered to be minor and predominantly positive',[54] but neither evidence for this statement nor details about these 'positive' social and economic effects is provided. This is unsurprising, given that Origin's Corporate Affairs Manager has previously stated that:

> '*...realistically, the shale gas industry is very hard to get into. The workforce is generally highly specialised… which can make sourcing appropriate local labour challenging. While Origin tries to employ local contractors where practicable, it is usually more*

[53] EMP, 70.
[54] EMP, 152.

efficient for us to work with large contractors who can provide multiple services for us, and these contractors are often not NT based.'[55]

This is confirmed by an examination of sign-in sheets for Origin's Velkerri 76 site, which indicated that 95% of entrants in late 2020 were Origin employees or contractors based in Queensland.

[55] Stephanie Stonier, speaking at the Barkly Future Forum, March 2020.

Appendix A: Legislative and policy context

The Beetaloo Sub-basin has been identified by the Northern Territory and Australian Governments as a highly prospective region for the extraction of unconventional (shale) gas. The Beetaloo is a priority basin for development under the Australian Government's conceptual 'gas-fired recovery' plan for restoring the national economy from the impacts of COVID-19, and has been the subject of a 'Strategic Basin Plan' released in January 2021.[56] The key consequence of this designation has been significant financial and policy commitments made to the onshore gas industry, including the grant of $21 million to Empire Energy to undertake exploration activities and repeated assertions of Australia's long-term need for natural gas by prominent Government figures.

The Northern Territory Government ('NTG') has similarly committed to pursuing the development of an onshore gas industry in the NT, despite prominent and persistent community opposition.[57] The NTG commissioned the Scientific Inquiry into Hydraulic Fracturing in the NT to provide an assessment of the potential social and environmental risks of fracking. The 'Pepper Inquiry' handed down its final report in 2018. The Inquiry made 135 recommendations, and concluded that it was only the implementation of all these recommendations that could 'create the framework that will mitigate the risks associated with any onshore shale gas industry in the NT'.[58]

Notably, despite finding that its suite of recommendations could mitigate the risks of onshore gas, the Pepper Inquiry also the concluded that:

'...the Panel has identified four high-priority issues … in respect of which there is insufficient information to enable a full risk assessment to be conducted for the development of a mature onshore shale gas industry. These are: sustainable groundwater use; contamination of groundwater with hydraulic fracturing fluids and wastewater from leaky wells; groundwater contamination from on-site surface spills of wastewater; and the effect of these water quantity and quality issues on either surface and/or groundwater-dependent ecosystems.'[59]

The NTG has been progressing its work on the Pepper Inquiry recommendations, but its latest progress report indicates that only 65 of the 135 recommendations have been fully implemented.[60] Lock the Gate is concerned that some of the recommendations classified as

[56] Australian Government, 'Unlocking the Beetaloo: the Beetaloo Strategic Basin Plan' (January 2021) <https://www.industry.gov.au/data-and-publications/unlocking-the-beetaloo-the-beetaloo-strategic-basin-plan>

[57] See, e.g., '"Not now, not ever": NT Traditional Owners remain united against fracking' (2 August 2021) *SBS* <https://www.sbs.com.au/news/not-now-not-ever-nt-traditional-owners-remain-united-against-gas-fracking/cf9140a9-8fcc-4c80-836d-0a6ca4efde14>; Christopher Knauss, '"Grave mistake": climate scientists issue dire warning over Beetaloo Basin fracking plans' (23 September 2021) *The Guardian* <https://www.theguardian.com/australia-news/2021/sep/23/grave-mistake-climate-scientists-issue-dire-warning-over-beetaloo-basin-fracking-plans>.

[58] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 454.

[59] Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 166.

[60] Northern Territory Government, 'Ninth Hydraulic Fracturing Implementation Progress Update' (14 December 2021) <https://hydraulicfracturing.nt.gov.au/resources/community-bulletins/community-bulletin-47>.

'fully implemented' by the NTG have not actually been completely fulfilled to the standard indicated by the Pepper Inquiry.

Major recommendations that have not yet been implemented include:

- The application of the 'water trigger' under the *Environment Protection and Biodiversity Conservation Act 1999* Cth to onshore gas development (*Rec 7.3*)

- The completion of a Strategic Regional Environmental Baseline Assessment for the Beetaloo Sub-basin (*Rec. 7.5*)

- The development of a Water Allocation Plan for the aquifers underlying and adjoining the Beetaloo Sub-basin (*Rec. 7.7*)

- Regulation or policies to ensure that there is no net increase in the lifecycle greenhouse gas emissions from any onshore gas produced in the NT (*Rec. 9.8*)

The NTG released a 'Greenhouse Gas Policy for Major Emitters' in 2021 and undertook community consultation on the draft policy. No further engagement has occurred, nor has the final policy been released.

The NTG is also midway through a reform agenda for water regulation,[61] and released a 'Directions Paper' on a proposed *Strategic Water Plan* in December 2021. Onshore gas was not specifically mentioned in the Directions Paper.

[61] See Northern Territory Government, 'Water Regulatory Reform 2021-23 - Information Paper' (1 September 2021).

Saxby, Leanne – Thursday, 11 August 2022 – 18:40:28

Subject	PLEASE STOP ORIGIN PROPOSAL
From	Leanne Saxby
Sent	8/11/2022 6:40:28 PM

Dear Northern Territory Government
Please don't allow Origin to destroy the wonderful, unique, culturally intense and just plain beautiful landscape to allow a few to reap the rewards. Not only is the infrastructure for such projects obscene on our magnificent landscape, the fracking process is so harmful to our underwater ground water.
Please disregard Origins proposal for our magnificent country's sake and our grandchildren's water needs which provides life to everything.

Thank you
Leanne Saxby and her family

Leanne Saxby
****
WA 6148

Saxton, Gwyneth – Saturday, 13 August 2022 – 16:00:02

Subject	Stop Origin's fracking plans
From	Gwyneth Saxton
Sent	8/13/2022 4:00:02 PM

Dear NT Government

Origin's plans to open 12 new fracking drills in the Northern Territory will threaten water, cultural heritage and most importantly our climate that we depend on for our very survival.
If these plans are approved it will not only pave the way for Origin to frack and destroy land and climate but set a precedent for other corporations to do the same.
Please can you act to defend the rights of land and people and save the world from further environmental damage.
Many thanks
Regards,
Gwyneth Saxton

Gwyneth Saxton
****
WA 6285

Saxton, Trish – Sunday, 14 August 2022 – 14:38:53

Subject	stop fracking in N.T.
From	Trish Saxton
Sent	8/14/2022 2:38:53 PM

N.T.D. Stop fracking in the N.T.

trish saxton
****
NSW 2073

Sburlati, Renato – Sunday, 14 August 2022 – 23:03:45

Subject	Origin fracking plans in the NT
From	Renato Sburlati
Sent	8/14/2022 11:03:45 PM

It appears that Origin has launched plans for twelve new fracking drills in the Northern Territory.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin now, instead of listening to Traditional Owners and the communities around the country united behind them, are intent on proceeding without their consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

The climate impacts would be monumental, and that's only when considering the emissions they're actually counting.

I'm advised that they'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Renato Sburlati
****
NSW 2219

Scannell, Peter – Friday, 12 August 2022 – 14:06:42

Subject	Stop Origin's fracking plans.
From	Peter Scannell
Sent	8/12/2022 2:06:42 PM

Northern Territory Government.
To whom it may concern,
Fracking has proven to be a devastating process all around the world. Our children deserve a country proud of its efforts to preserve our existing wilderness.

Peter Scannell
****
VIC 3095

Scantlebury, Carol – Sunday, 14 August 2022 – 15:59:00

Subject	Stop Origin's reckless fracking plans for the NT
From	Carol Scantlebury
Sent	8/14/2022 3:59:00 PM

To the Northern Territory Department of Environment, Parks & Water Security,
I have been very concerned that Origin have 12 new fracking plans for the NT. Fracking, despite company's claims to the contrary, is a very destructive process causing fracturing between the earth's layers to release the gas. This process cannot be guaranteed to be without the possibility of polluting water resources and is highly destructive on the surface due to the clearing required for the hundreds of wells required for this process to be economically viable. The other concerns are: the hastening of global warming due to the release of methane (which is 80 times more destructive than carbon dioxide) often associated with fracking
: and the threat to indigenous culture and the disruption to country and the environment through massive clearing of land
I urge you to put a stop to plans for any more fracking in the Northern Territory, to consider the environmental impact on land, water & First Nation culture and consider the global implications of hastening climate change when we are already experiencing catastrophic climate change.

Carol Scantlebury
****
WA 6239

Schaer, Frank – Sunday, 14 August 2022 – 20:07:31

Subject	Origin's plans to open new fracking drills in NT threaten water, cultural heritage, and our climate.
From	Frank Schaer
Sent	8/14/2022 8:07:31 PM

Origin plans to open twelve new fracking drills in the Northern Territory threaten water, cultural heritage, and our climate.

Origin does not have the proper (production) licence, and most of the foreseen emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem.

Moreover, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage

I urge the NT Government to stop Origin's reckless fracking plans

frank schaer
****
NSW 2134

Schalkwyk, Christiaan – Friday, 12 August 2022 – 17:06:55

Subject	Be part of REAL Australian values
From	Christiaan Van Schalkwyk
Sent	8/12/2022 5:06:55 PM

Don't stuff up the legacy of an Australian culture that's been around way before the Commonwealth saw the light, never mind the modern Australia Federation.

Do you want your legacy to be that of submission to Corporate Australia above the bloody land?

Fracking sucks. Stop before you create a legacy of destruction just because you are being bought by greed and give away our birthright to foreign share holders. Enough is enough. Have you no shame? No moral compass?

Don't you understand that long after you've gone people will despise actions taken by you? That they will spat on your graves as the morally bankrupt lot that sold out to temporary gain - the very land we all own?

These are the people who sell our natural resources overseas to the point of we not having enough for our own survival and prosperity. They don't give a shit about Australia, they live by greed and their bottom line. Do you really believe the "science" they hide behind? That all will be good and groundwater will be as pristine as it has been for centuries?

Origin does not give a shit. Count yourself as supporting their point of view as you allow them to stuff up our legacy. Your bribes will last as long as they can sell your property at a profit, and conveniently disappear as the eventual clean up needs to be done - as much as that will be possible.

I hope your decisions will follow you where ever you go after office, whatever your decisions are.

A concerned fellow Aussie,
Chris van Schalkwyk

Christiaan van Schalkwyk
****
WA 6027

Schell, Michael – Sunday, 14 August 2022 – 13:24:55

Subject	Origin's Fracking plans in the NT
From	Michael Schell
Sent	8/14/2022 1:24:55 PM

The Director,
Department of Environment, Parks and Water Security,
Dear Sir/Madam,
As someone who spent 8 years teaching in Alice Springs and Santa Teresa, I am writing to express my dismay and deep concern at ther proposed plans by Origin to open 12 new fracking drills in the NT.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Traditional Owners have been staunchly defending their country against Origin and other fossil fuel companies for years.

I would urge you to provide frank and fearless advice to the Government of the NT mindful of the concerns and rights of the local people and of the recent call by the UN to NOT engage in the development of new fossil fuel projects for the sake of the planet!
The Earth is our mother and demands the respect and care that we as custodians of our age can provide and to prevent any future violations of her integrity.
Remember - we have an obligation to - Advance Australia FAIR!
Yours sincerely,
Michael Schell
143 Lakedge ave.,
Berkeley Vale
NSW

Michael schell
****
NSW 2261

Schilg, Stephen – Sunday, 14 August 2022 – 14:24:55

Subject	Stop Origin's Fracking Plans
From	Stephen Schilg
Sent	8/14/2022 2:24:55 PM

To the Northern Territory Department of Environment, Parks and Water Security - I'm writing because I'm genuinely concerned how many projects (including the opening of more fracking operations) are continuously being approved. There is no win for the environment, the locals and the world as a whole.

How does this align with any environmental targets aimed at reducing in emissions?

This is purely to bolster profits for companies driven by greed and no concern for anyone but themselves and their stakeholders.

Continuously approving operations which are KNOWN to harm the environment and its peoples should be stopped immediately. Yes, gas prices may rise, but there's always going to be a finite amount that can be obtained. The wind down of these projects need to start one day - why not NOW?

Companies need to wind down destructive expansions, no matter their political or financial clout.

Please represent the people of Australia, and the rest of the world and not allow such harmful projects such as the fracking of our nation to take place.

Sincerely,
Stephen

Stephen Schilg
****
NSW 2640

Schlusser, Eugene – Sunday, 14 August 2022 – 13:07:00

Subject	Stop fracking plans
From	Eugene Schlusser
Sent	8/14/2022 1:07:00 PM

I am a grandfather of 4 grandsons very concerned with the effect of climate change and the consequent state of the planet they will inherit.
I used to own shares in your company but sold them in the light of the damage to the climate your activities are causing. Your share price is a clear sign there are many like me
We have had plenty of inaction and are now having to take stronger measures than ever. I fully support efforts to phase out gas production and its use asap. I appeal to you to heed the science and move away from fossil fuels, gas in this instance.
Extreme weather events are stark evidence of what is happening to the climate. I won't be around but my grandchildren will and they'll suffer. The young know this and are prepared to take to the streets, vote for the Greens and take other action to avert the worst scenario.
Please, I beg you, use your powers wisely and put the future of my grandchildren ahead of company profits.
I live in hope that you will take responsibility for your decisions and not be responsible for adding to greenhouse gas emissions.

Eugene Schlusser
****
VIC 3053

Schmid, Anne – Saturday, 13 August 2022 – 15:03:18

Subject	Stop Origin's Fracking Plans.
From	Anne Schmid
Sent	8/13/2022 3:03:18 PM

The Traditional Owners of this land do not want this fracking. The proposed twelve new fracking drills threaten water, cultural heritage and climate. This is far more valuable to humanity than fracking wells.

Anne Schmid
****
VIC 3155

Schmidt, Malgo – Saturday, 13 August 2022 – 16:01:58

Subject	NO fracking in NT or anywhere
From	Malgo Schmidt
Sent	8/13/2022 4:01:58 PM

NO fracking in NT or anywhere!

Malgo Schmidt
****
SA 5167

Schmidt, Malmaria – Saturday, 13 August 2022 – 16:44:05

Subject	Stop Origin's fracking
From	Malmaria Schmidt
Sent	8/13/2022 4:44:05 PM

Dear NT Gov,

Having stolen the whole continent, the Australian apartheid has been using it to kill the entire Planet.

Please, do not allow fracking in NT or anywhere! Thank you.

And with best wishes and kind regards,
as well as my eternal love for your mind-capturing Land
I remain faithfully yours

Malmaria Schmidt
****
SA 5167

Schmitt, Anne – Friday, 12 August 2022 – 16:59:00

Subject	Stop Fracking plans in the NT
From	Anne Schmitt
Sent	8/12/2022 4:59:00 PM

To the Northern Territory Government ,
We live in Victoria, but are equally opposed to fracking here as in the NT. We wish to object to the 'exploration' of fracking wells on cultural lands in the NT, and the blatant disregard for Traditional Owners objections. These wells pose a risk to water, and heritage, and the Natural gas is a risk to our climate and planet.
Please stop this process by Origin, or anyone else who wishes to harm our Earth. Money / profit is not everything!
Yours , passionately,
Anne and David Schmitt and Families

Anne Schmitt
****
VIC 3820

Schneider, Annette – Friday, 12 August 2022 – 21:43:22

Subject	Please listen to the traditional owners and stop the plans for fracking the NT
From	Annette Schneider
Sent	8/12/2022 9:43:22 PM

To the Department of Parks, development & water security,
I am planning a holiday to the NT and do not want to see that Origin has fracked and destroyed country, water, and our climate.
Climate and our future mean everything to me. Northern Australia is beautiful and fragile. Climate change will hit it hard, causing lack of water and mass extinctions.
Please don't let this happen. We have just had an election where climate concerns came out as our prime issue.
Neither voters nor tourists will forgive a government which does not protect the land and its traditional owners.
Please reconsider your support for Origin's filthy fracking.

Annette Schneider
****
NSW 2620

Schoenheimer, Andrea – Friday, 12 August 2022 – 21:03:19

Subject	Origin's fracking plans must be stopped!
From	Andrea Schoenheimer
Sent	8/12/2022 9:03:19 PM

I find it unconscionable that with climate change upon us the NT Government is planning to commence fracking of 12 wells in land belonging to First Nations people. It is especially pernicious as the traditional owners of the land object to this move and also fracking is dangerous use of subterranean water.
We don't need more fossil fuel being wrenched from the ground especially at the cost to the environment.
Shame on the NT Government to resort to such activities hoping that it will pass under the radar of most Australians.

Andrea Schoenheimer
****
QLD 4214

Schofield, Paddi – Thursday, 11 August 2022 – 22:43:39

Subject	burgandscho2754@gmail.com
From	Paddi Schofield
Sent	8/11/2022 10:43:39 PM

The science is in on the destructive, damaging and dangerous facts about fracking:

As a government, it is your responsibility to ensure the well-being of All.
1: The process used in fracking has been documented:
1a: the chemicals used to carry through the process is so very toxic to the ground water and the soil. ...Contamination.
1b: this process uses fresh, clean water .. a precious resource.
1c: the soil is contaminated for ever... Farming food, grazing cattle etc are impacted
1d: the ecosystem is gone forever.
1e: the clean ground water is gone forever.

2: 'Lock the gate' was the initiative of farmers:
2a: they saw the effects of fracking in other countries and protested hard against the impending damage on their farms.
2b: their information was scientific; and there is imperical evidence to the destruction caused by fracking.
2c: they had evidence on ground water contamination and were so passionate about caring for our planet; and the future of our sources of water.
2d: they had evidence of air pollution from this very unclean process.
2e: they had evidence of their properties becoming unhealthy for their animals and food production; because the soil was being contaminated by the toxic chemicals in the water..

3: Our Indigenous First Nations People don't want fracking:
3a: they have taken care of this land for thousands of years.
3b: the company concerned is damaging, poisoning and destroying the important and significant underground water system; destroying sacred ground.

As the Government of the day; it is important that you are lead by the First Nations People and the citizens of the Northern Territory.
For too long governments have bowed down to multinationals rather than listening to the people.

There is enough gas in Australia.
Stop shipping it off shore; look after your citizens.
Don't create anymore environmental destruction.
Look after our precious aquifers; listen to our wise Indigenous people's.

Paddi Schofield.
Kyogle NSW

paddi schofield
****
NSW 2474

Schofield, Yumiko – Saturday, 13 August 2022 – 17:14:17

Subject	Stop Origin's fracking plans.
From	Yumiko Schofield
Sent	8/13/2022 5:14:17 PM

To Northern Territory Department of Environment, Parks and Water Security.
I strongly support First Nations people oppose fracking on their land. Water will be contaminated with gas and threats their lives and environment. Gas is not for our future. Clean energy is the way.
Please use your political power to stop environmental catastrophe.

yumiko schofield
****
QLD 4556

Schoppe, Shirley – Thursday, 11 August 2022 – 17:39:58

Subject	Stop fracking
From	Shirley Schoppe
Sent	8/11/2022 5:39:58 PM

The Northern Territory department of Parks and wildlife and water should be protecting the environment they are supposed to be in charge of. Fracking has been proven to cause water pollution and environmental degradation, and Australia has enough gas mines already without destroying the environment. Concentrate on getting energy from the Sun, wind and waves and keep our environment for our children.

Shirley Schoppe
****
WA 6281

Schouten, Wilma – Sunday, 14 August 2022 – 06:31:03

Subject	wilmaschouten7@gmail.com
From	Wilma Schouten
Sent	8/14/2022 6:31:03 AM

****

Stop fracking now!

Be responsible and do the best for us all, not gas companies!

Thank you

Wilma

Wilma Schouten
****
QLD 4005

Schroeder, Robert – Friday, 12 August 2022 – 14:45:45

Subject	Please stop Origin's Fracking Plans
From	Robert Schroeder
Sent	8/12/2022 2:45:45 PM

The climate impacts would be monumental, and that's only when considering the emissions they're actually counting. And yet, they're claiming they'd be reducing emissions!

They'd also need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.
fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to.

So it's simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Robert Schroeder
****
NSW 2227

Schupp, Geoffrey – Sunday, 14 August 2022 – 19:18:58

Subject	Origin's Fracking Plans
From	Geoffrey Schupp
Sent	8/14/2022 7:18:58 PM

Fracking is an unsafe process with immense risk to the environment. Inplaces where fracking has been permitted, land degradation and polluted water has reaked havoc on communities. Reference Oklahoma, USA for one.
Do not allow Origin to Frack in the NT
Geoff Schupp
Duncraig WA

Geoffrey Schupp
****
WA 6023

Scott, Julie – Monday, 15 August 2022 – 11:28:57

Subject	Origin Energy's fracking plans
From	Julie Scott
Sent	8/15/2022 11:28:57 AM

PLEASE PLEASE Stop or severely limit Origin's fracking plans. Keep Australia's natural wonderland intact for future generations. The oldest continent on earth deserves our care NOT our RAPE
Please Please Please care for our land

Julie Scott
****
VIC 3046

Scurrah, Martin – Friday, 12 August 2022 – 12:24:02

Subject	Fracking Drilling Application by Origin
From	Martin Scurrah
Sent	8/12/2022 12:24:02 PM

I am writing to express my concern about proposed fracking by Origin Energy in the Northern Territory.
I have recently moved to the Hunter region in NSW where the population is facing the major challenge of adapting to the eventual elimination of coal mining and the construction of a new regional economy based on renewal energy. This is a challenge facing us all as we confront the need to combat global climate change.
The people and government of the Northern Territory must also contribute to this process.
The International Energy Agency has stated that for the world to reach the global greenhouse gas emission targets there should be no new oil or gas projects.
If the Northern Territory Government approves Origin's application, not only will it undermine the global effort to confront climate change but it will condemn the Northern Territory population in the near future to making the same difficult adjustments that are facing the Hunter region today.

Martin Scurrah
****
NSW 2289

Sdrinis, Susan – Friday, 12 August 2022 – 11:24:19

Subject	Please do not approve Origin's fracking plans.
From	Susan Sdrinis
Sent	8/12/2022 11:24:19 AM

To the NT Dept Environment, Parks and Water Security. While I do not live in the NT, I am most concerned about environmental issues and the future of our precious planet.
I urge you to not approve Origin's plans for 12 new fracking drills. They will severely impact the environment and culture of the traditional owners.

Susan Sdrinis
****
VIC 3182

Seamark, Bob – Friday, 12 August 2022 – 16:17:32

Subject	Stop Any Further Fracking for the sake of our Children
From	Bob Seamark
Sent	8/12/2022 4:17:32 PM

Surely the impact of climate change on our future is now common knowledge, as is the understanding of our need to begin limiting fossil fuel usage immediately.
Fracking risks destroying country, water and climate.
Enough is enough, stop any further expansion of this most unwelcome development

Bob Seamark
****
SA 5173

Searle, Michael – Sunday, 14 August 2022 – 18:26:38

Subject	Origin Energy's fracking plans must be stopped
From	Michael Searle
Sent	8/14/2022 6:26:38 PM

Origin Energy's plans for gas-mining are horrific:
Destruction of water
Desecration of traditional indigenous lands
Indigenous peoples' wishes will be over-ridden rough-shod.
Destruction of pristine lands
Discarded machinery and equipment will be left lying around
Species will be destroyed
Climate destruction will be exacerbated by any gas discovery and exploitation

There are many, very serious reasons why this exploration must not be done. Not least of which is that proper approval processes are not being followed.
My submission is that this exploration and exploitatio must not proceed.

Michael Searle
****
ACT 2614

Seccombe, Philip – Saturday, 13 August 2022 – 11:21:04

Subject	Please stop Origin Energy fracking
From	Philip Seccombe
Sent	8/13/2022 11:21:04 AM

Northern Territory Department of Environment, Parks and Water Security.

As you are aware, Origin Energy has developed plans for twelve new fracking drillholes in the Northern Territory. The traditional owners of land in the Northern Territory have long resisted these drilling programs and the resultant fracking needed to produce gas. The proposed drill holes represent a massive risk to water, cultural heritage, and our climate.

Rather than listening to the traditional owners and vocal opposition from a variety of people and communities elsewhere in Australia, Origin are attempting to by-pass proper procedure and push ahead with drilling and production without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a bad precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

The climate impacts of the fracking project are major, yet Origin claim that their project would reduce emissions. Clearly, these are false claims by Origin.

Origin also require large amounts of water for the fracking process. Aquifer contamination is a significant risk in the fracking process - groundwater contamination would be a major disaster for the Aboriginal communities and pose intolerable long-term problems for the sustainability of agriculture, livestock, crops and settlement in these areas.

Northern Territory must restore the earlier bans placed on fracking. Please respect the fact that fracking is not an option and is strongly opposed by the local traditional owners.

As has been demonstrated elsewhere in Australia and throughout the world, fracking impacts our climate, water, and communities and needs to be banned in the Northern Territory.

Philip Seccombe
****
NSW 2280

Seccombe, Roger – Sunday, 14 August 2022 – 08:32:38

Subject	Origin's E.M.P.
From	Roger Seccombe
Sent	8/14/2022 8:32:38 AM

I am worried about the consequences of Origin's activities for the Northern Territory and wider.
Origin's plans to open twelve new fracking drills in the Northern Territory is not acceptable.
Fracking destroys the country, arterial water as well as our climate. The country is fragile, water scarce.
The industry has got in front of the legislation; too many long-term detrimental irreversible consequences can follow.
I formally request the Department to totally reject Origin's Environmental Management Plan, as submitted.
Reference(s):
Environment management plan, Department of Environment, Parks and Water Security, 20 January 2022; and others.

Roger Seccombe
****
NSW 2479

Secker, Juli – Monday, 15 August 2022 – 12:38:34

Subject	NT Government - please stop Origin fracking plans now!
From	Juli Secker
Sent	8/15/2022 12:38:34 PM

I am sending you my plea to stop Origin plans for fracking the land in the Northern Territory, as our natural environment, including clean water, animal habitats, our climate, and indigenous cultural heritage will all be vastly impacted. I would hope the NT Government wouldn't turn a blind eye to this, but to say NO to Fracking today.
Thanking you in advance.

Juli Secker
****
NSW 2122

Secrest, Summer – Sunday, 14 August 2022 – 18:40:06

Subject	NO FRACKING
From	Summer Secrest
Sent	8/14/2022 6:40:06 PM

NO FRACKING

Summer Secrest
****
NSW 1022

Seddon, Alexandra – Friday, 12 August 2022 – 19:51:51

Subject	Please do not allow any fracking
From	Alexandra Seddon
Sent	8/12/2022 7:51:51 PM

I am the founder of four wildlife sanctuaries in the Bega Valley. I work with many indigenous people. I am horrified by the damage which fracking does to the environment. I am also very aware of the depression which is caused to indigenous people when there culture is simply ignored and their sacred places are destroyed. Please respect their ancient culture and the amazing wisdom with which they have cared for this land for thousands of years.

Alexandra Seddon
****
NSW 2549

Seeger, Nancy – Friday, 12 August 2022 – 15:43:13

Subject	Stop Origin fracking
From	Nancy Seeger
Sent	8/12/2022 3:43:13 PM

Stop fracking Australia! Greedy mining! Who gets the profits? Rich people, who don't give a damn about the country, the first people, or any of the people. Why continue to destroy the country for rich people?

Nancy Seeger
****
VIC 3799

Seiler, Philipp – Saturday, 13 August 2022 – 14:32:09

Subject	The NT must reject Origin's EMP.
From	Philipp Seiler
Sent	8/13/2022 2:32:09 PM

Dear NT Dept. Parks, Wildlife & Water Security

I'm writing to express my deepest concern about the potential approval of Origin's plans for CSG 'exploration wells' in the Kimberley.

I'm disappointed that CSG projects are still being approved; the tide has turned on fossil fuel energy, the recent federal election has clearly shown this. CSG has no place in Australia's energy plans for the future, the science is clear enough regarding the environmental impact. Can you seriously entertain a solution like trucking waste water out of the territory as a solution? This is a desperate attempt to get around one of the many destructive aspects of these types of projects; and that's to name only one aspect.

Secondly, the people's voice is clear on this matter also. From ordinary Australians to Traditional Owners of the local lands, through the new Climate Bill being passed as I write. The people's voice is clear, these project benefit large corporations at the expense of the Australian people and our irreplaceable nature and ecosystems. Is that the legacy that the Dept. wants to leave behind? Look to the future and fund and approve renewable energy projects instead.

In closing, I urge you to reject Origin's EMP and the many similar EMP's for CSG projects that are sure to come. People and planet over profits.

Your's Sincerely
Philipp

Philipp Seiler
****
WA 6000

Selberg, Birgitta – Sunday, 14 August 2022 – 21:38:45

Subject	selbergbirgitta@gmail.com
From	Birgitta Selberg
Sent	8/14/2022 9:38:45 PM

Please stop destroying our country. Stop fracking!

Birgitta Selberg
****
SA 5162

Senghaas, Bernie – Saturday, 13 August 2022 – 15:37:16

Subject	Origin's fracking plans destructive...
From	Bernie Senghaas
Sent	8/13/2022 3:37:16 PM

Australia's water table has diminished, and drinking water availability and quality has declined rapidly over the whole of the country. This considered, it is completely delinquent of the NT government and of Origin to even think of compromising our water supply and water quality.
In consideration of more rapid promotion of renewable, clean energy, this venture now smacks of avarice and stupidity from economic, environmental and social perspectives.

Bernie Senghaas
****
QLD 4069

Senior, Gillian – Friday, 12 August 2022 – 15:53:47

Subject	Please do not allow fracking in the NT
From	Gillian Senior
Sent	8/12/2022 3:53:47 PM

Please, I implore your government and your department of environment, parks and water security to prevent ANY FRACKING or experimental fracking in the Northern Territory.
It will permanently destroy the water table and the surrounding environment.
Have a look at the United states pictures of fracking fields and refuse to allow this to happen in Australia.

gillian senior
****
VIC 3260

Serle, Don – Thursday, 11 August 2022 – 20:03:37

Subject	I'm appalled at Origin's fracking plans
From	Don Serle
Sent	8/11/2022 8:03:37 PM

Dear Minister,
My name is Don Serle and I care deeply about our environment. I am also contacting you as a member of DEA, Doctors for the Environment Australia.

I write to alert you to the destructive plans of Origin to frack in the NT to unleash a huge amount of gas, resulting in a CO2 induced climate catastrophe, and risking consuming and fouling local water supplies, against the wishes of traditional landowners, all without planning approval.

I live very close to the beach, at Breamlea. I have been visiting this coastline for 60 years, and I am seeing worrying ominous changes in the local wetlands and on the beaches. Sea level rise is a constant topic in my neighbourhood. What happens to our climate will affect our whole coastline, and the thousands of people who live here and visit our coasts for recreation, including my grandchildren and yours.

I am thankful to be able to put my point of view to you on this contentious gas project. There are a variety of issues that I could point to but the issues that concern me most are the impact on our climate, and the consumption and possible pollution of our groundwater.

In addition, my colleagues and I are already seeing an increase in climate induced health problems, and this is bound to increase with global warming.

Please halt this outdated and inappropriate project.

Sincerely, Dr Don Serle

Don Serle
****
VIC 3220

Setchell, Barbara – Friday, 12 August 2022 – 09:56:02

Subject	No to new fracking developments
From	Barbara Setchell
Sent	8/12/2022 9:56:02 AM

The entire country voted and made it clear they want action on climate and opening new fracking well was an issue of concern. Australians oppose these developments.
Barbara

Barbara Setchell
****
VIC 3722

Sexton, Dawn – Sunday, 14 August 2022 – 10:51:30

Subject	No fracking by Origin
From	Dawn Sexton
Sent	8/14/2022 10:51:30 AM

Fracking negatively impacts on climate, culture and water resources. Prevent fracking in the NT by Origin.

Dawn Sexton
****
NSW 2261

Sexton, Terry – Saturday, 13 August 2022 – 14:31:46

Subject	Stop fracking in N.T
From	Terry Sexton
Sent	8/13/2022 2:31:46 PM

Stop fracking in Northern Territory as it is damaging the water and will cause environmental destruction for the N.T population in the future

Terry Sexton
****
QLD 4501

Seymour, Willi041262166am – Friday, 12 August 2022 – 16:34:13

Subject	STOP ORIGIN ENERGIES RECKLESS FRACKING PLANS
From	Willi041262166am Seymour
Sent	8/12/2022 4:34:13 PM

I am strongly opposed to the plans of Origin Energy to undertake fracking drills in the Northern Territory for these undertakings very seriously threaten existing water, cultural heritage ,and our climate. Not only this it would be setting a horrifying precedent which other fracking corporations may seek to follow. This is wrong & must not be allowed to happen. Please do not allow it to proceed.
William Seymour

Willi041262166am Seymour
****
QLD 4075

Shackcloth, Sally – Sunday, 14 August 2022 – 17:26:19

Subject	Fracking plans in the Northern Territory
From	Sally Shackcloth
Sent	8/14/2022 5:26:19 PM

I may not live in the Northern Territory but as an Australian and concerned conservationist, I strongly believe that there should be no fracking permitted in the Territory. The Traditional Owners of the land are not supportive of the plans and we all need to protect our country and conserve our water.

Sally Shackcloth
****
TAS 7054

Shakti, Chirone – Sunday, 14 August 2022 – 14:58:04

Subject	Stop Origin's fracking plans
From	Chirone Shakti
Sent	8/14/2022 2:58:04 PM

Dear Northern Territory Government

I'm writing to implore you to stop Origin's plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

If you approve these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please please please reject Origin's fracking plans.

Chirone Shakti
****
QLD 4557

Sharman, Mike – Friday, 12 August 2022 – 10:03:31

Subject	Fracking In The NT
From	Mike & Philippa Sharman
Sent	8/12/2022 10:03:31 AM

I find it appalling that Origin wants to go ahead with fracking when the majority of the population is aware of the negative effects on climate and water quality. Surely the company should invest in renewable energy rather than damaging the country.
Mike Sharman.

Mike & Philippa Sharman
****
TAS 7250

Sharp, Criss – Friday, 12 August 2022 – 15:01:29

Subject	Don't let Origin wreck our land!
From	Criss Sharp
Sent	8/12/2022 3:01:29 PM

I come from NSW - I often come to the Northern Territory - it's my favourite travel destination. Fracking is the worst possible thing you could do to this beautiful country.
Please save our country and our earth. Stop Origin destroying it. We rely on you.
Sincerely yours.

Criss Sharp
****
NSW 2250

Sharpe, Jeannette – Sunday, 14 August 2022 – 16:43:59

Subject	Stop Origin fracking plans
From	Jeannette Sharpe
Sent	8/14/2022 4:43:59 PM

To the Northern Territory Government & any Department which deals with climate & water security.
I was horrified to hear of Origin's proposed fracking in the Northern Territory. This must be stopped. Fracking causes water pollution. This is a continent which has to look after all is water resources. Also the Traditional owners of these lands who live there need clean water and their lands protected from companies that want to exploit & do not care if the destroy the land , the environment & the people & plants & wild life which live there.
I think fracking is wasteful use of our natural resources in this country & all fracking should be stopped I ask that Origin's EPM be rejected.

Jeannette Sharpe
****
NSW 2088

Sharpley, Janette – Sunday, 14 August 2022 – 14:46:07

Subject	sharpley1952@gmail.com
From	Janette Sharpley
Sent	8/14/2022 2:46:07 PM

Northern Territory department of environmental health and safety
Dear Sir. The damage franking does to our land is irrepairable and should not be allowed to go ahead - not just for our first nation traditional owners but for all Australians just look at the mess it has done in America

Janette Sharpley
****
VIC 3201

Shaw, Elaine – Thursday, 11 August 2022 – 14:30:49

Subject	STOP origin's Fracking in the NT
From	Elaine Shaw
Sent	8/11/2022 2:30:49 PM

To NT DE P and AS, please don't allow fracking in the NT, our NT environment is very fragile and our underground water is precious to the life of communities, plants and animals.

Please stop future fracking.

Regards,

Elaine Shaw

Elaine Shaw
****
VIC 3719

Shaw, Kevin – Sunday, 14 August 2022 – 15:14:37

Subject	Reject Origin's Fracking Proposal
From	Kevin Shaw
Sent	8/14/2022 3:14:37 PM

The Northern Territory Government,

Hello.

I am a pensioner, and deeply concerned for the future of all young people, who are entitled to quality life chances.

Any proposal to continue with fossil fuel 'business as usual' must be rejected, and replaced with fast tracking Renewable Energy as part of an overall program of Regenerative Ecology. The concept of Net Zero to reduce greenhouse emissions is deeply flawed, and wide open for manipulation and green-washing.

All governments, globally, must take genuine steps to reduce greenhouse emissions. The Northern Territory Government is well placed to show global leadership on greenhouse emission reduction, fast tracking Renewable Energy, and enjoying the rapid job growth that this will generate as a corollary of exercising globally responsible leadership.

In addition to the foregoing, the destructive environmental impacts of fracking are well-known and proven globally. Rejecting Origin's EMP will prevent environmental damage that is Avoidable.

I urge the Northern Territory Government to reject Origin's Environment Management Plan, and to demonstrate responsible global leadership by genuinely reducing greenhouse emissions, and improving the life-chances of young people who are our future.

Kind Regards

Kevin

Kevin Shaw
****
QLD 4887

Sheahan, Dale – Sunday, 14 August 2022 – 21:57:39

Subject	Stop Origin from Fracking the NT
From	Dale Sheahan
Sent	8/14/2022 9:57:39 PM

To whom it may concern

I write to implore the NT Government to respect Traditional Owners and prevent Origin from gas fracking in the NT.

Origin Energy has been one of the biggest players in the fracking industry for decades. They already have a few "exploratory" fracking wells in the NT.

Now, they've lodged an Environment Management Plan (EMP) to the NT Government as part of their application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Twelve new fracking wells in itself would be bad enough, because any fracking is a risk to country, water, and climate. But when you dig deeper into their EMP, it's even worse…

They want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.

They haven't accounted for or addressed the full climate impacts: Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.

They want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater. Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs. This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

Dale Sheahan
****
VIC 3057

Sheehan, Madoc – Friday, 12 August 2022 – 14:21:45

Subject	Reject Origin's fracking plan
From	Madoc Sheehan
Sent	8/12/2022 2:21:45 PM

Dear NT Government,
As Associate Professor of Chemical Engineering I am writing to express my grave concerns at Origin's plans to open 12 new fracking wells. This plan should be rejected. It is vital to consider the environmental and social impacts of such development in equal measure to economic impacts. Fracking is not supported by the NT community, especially pastrolists and ranchers, traditional owners and the indigenous communities most likely to be effected by these wells and the associated development. The benefits to NT communities will be minimal, yet they will carry the burden of this polluting and damaging industry. That is grossly unfair to these communities.
Fracking is an extremely unsustainable and environmentally damaging activity. Water will end up being contaminated, like almost all other fracking operations, and health impacts will be considerable. There are numerous scientific findings to support these conclusions on the negative impact of fracking. Futhermore, when the fugitive methane emissions and processing emissions are included, fracked gas has some of the worst greenhouse emissions of any fossil fuel. The idea that fracked gas is less polluting than coal is absolutely not true and this plan should be rejected on its massive greenhouse gas impact alone. Furthermore, fracking is a dangerous and uncertain process that has not been proved safe anywhere in the world. On the precautionary principle alone this plan should be rejected. Origin's plan is unnecessary, creates long lasting damage and is not supported by the community. Please don't sell out Territorians for a few corporate dollars and minimal tax. Reject Origin's plan.

Madoc Sheehan
****
QLD 4810

Shensei, Ocean – Friday, 12 August 2022 – 09:05:22

Subject	Stop origins fracking plans
From	Ocean Shensei
Sent	8/12/2022 9:05:22 AM

Traditional Owners have been staunchly defending their country against Origin for years. They don't want any fracking to go ahead on their lands. They have the right to reject the process for many reasons. We all have the right to clean water, fracking takes this option away. I oppose the fracking process.

The NT department of Parks and Water Authority please stand up and support the locals and defend the land that Origin wish to destroy by their deviate ways of going behind the scenes for approval.

Ocean Shensei
****
NSW 2480

Shepherd, Marion – Saturday, 13 August 2022 – 15:17:08

Subject	Stop Fracking Plans in the NT
From	Marion Shepherd
Sent	8/13/2022 3:17:08 PM

Dear Members of the Northern Territory Dept. of Environment, Parks and Water Security,
Please do everything possible that you can do to prevent Origin's terrible plans to do some fracking in the Northern Territory. Traditional owners have been defending their country against this fracking for years, and IF the NT Government approves these plans, it would be setting a terrible precedent for other fracking groups to do the same.

Fracking destroys the earth, the water, and our climate and so should NOT be allowed. We should be using ONLY non-fossil fuels these days, and NOT gas or coal. They are old-fashioned and harm everything around them so should be prohibited.

Marion Shepherd
****
SA 5052

Shepherd, Thomas – Friday, 12 August 2022 – 17:17:40

Subject	Stop Fracking
From	Thomas Shepherd
Sent	8/12/2022 5:17:40 PM

Do not frack on land that doesn't belong to you
It is traditional and Orgin is making billions from the Australian population and not paying any tax. They pay tax avoidance accountants to steal what is not theirs and belongs to all Australians
Thomas Shepherd

Thomas Shepherd
****
NSW 1455

Sheppard, Anjali – Saturday, 13 August 2022 – 22:28:36

Subject	Stop Origin's Fracking plans
From	Anjali Sheppard
Sent	8/13/2022 10:28:36 PM

FAO: the Northern Territory Dept of Environment of Parks & Water Security
I am writing to state my strong opposition to the fracking proposed by Origin in the NT, which threaten the water sources, cultural heritage of the indigenous people's and our climate. It is time to stop this company taking from the land and it's people and bring it into line with more current and modern solutions to providing energy sustainably.

Anjali Sheppard
****
QLD 4573

Sheppard, Jan – Friday, 12 August 2022 – 13:54:52

Subject	Stop fracking
From	Jan Sheppard
Sent	8/12/2022 1:54:52 PM

You cannot allow this fracking to continue. It harms our water and destroys the land.

PLEASE DO NOT APPROVE ANY MORE FRACKING SITES

Jan Sheppard
****
QLD 4122

Shield, Jenny – Thursday, 11 August 2022 – 14:50:56

Subject	Reject Origin's proposal for fracking in the NT
From	Jenny Shield
Sent	8/11/2022 2:50:56 PM

Northern Territory Department of Environment, Parks and Water Security

Origin should not be allowed to conduct the proposed fracking. The effect of the extraction and leakage of gas on climate change alone is sufficient reason to reject the project. Already the temperature of the Australian continent has increased by 1.4 degrees Celcius, close to a distastrous level of climate change, and this has resulted in catastrophic fires and floods in the eastern states. To mitigate this disastrous climate change, no new gas extracting projects should be permitted.

In addition, the project would contaminate underground water, a resource that we rely on for survival in this country, and excessive volumes of water would be necessary for the project.

Also, I stand beside the Traditional Owners of the land who are trying to defend the land against destruction by Origin. Already, Origin's preliminary work has caused unacceptable damage to the vegetation and soil. Origin and its contractors should not be permitted to continue any work on this land.

In summary, the environmental and human effects of this project are clearly too severe. It would be unconscionable to allow this project to proceed. Please stop this project.

Yours faithfully
Jennifer Shield

Jenny Shield
****
VIC 3550

Shields, Kay – Friday, 12 August 2022 – 20:56:04

Subject	Origin-IN, Origin-OUT
From	Kay Shields
Sent	8/12/2022 8:56:04 PM

To the Northern Territory Department of Environment, Parks and Water Security

Don't let Origin Energy destroy the Northern Territory and endanger its residents.
Origin energy is Australia's fourth biggest climate polluter and why are we still developing fossil fuels? Do we need more droughts, fires and floods?
Do not approve plans for Origin to frack and destroy country and threaten clean water supplies. Remote indigenous communities already drink unsafe water contaminated with uranium, nitrates, fluoride and E. coli in three states of Australia and the Northern Territory. Water is life and it is an increasingly valuable resource and will be far more valuable than gas in the future.
Please act to protect your land, your water and the health of Territorians by banning fracking in the Northern Territory.

Your Sincerely,
Kay Shields

Kay Shields
****
VIC 3038

Shields-Brown, Mark – Sunday, 14 August 2022 – 19:07:20

Subject	Stop Fracking whilst the sun is shining
From	Mark Shields-Brown
Sent	8/14/2022 7:07:20 PM

FFS, why do you idiots not realise that GAS is not the future for Australian Exports. We can export more solar power at a fraction of the price, with just some basic cable investment!

Mark Shields-Brown
****
NSW 2329

Shiells, Lyn – Friday, 12 August 2022 – 13:02:28

Subject	Stop Origin's fracking plans
From	Lyn Shiells
Sent	8/12/2022 1:02:28 PM

Dear Northern Territory Department of Parks and Water Security I implore you not to allow fracking in the Northern Territory and not to allow Origin to frack for gas. Gas creates emissions, wherever it is burnt in Australia or if it is exported. There are too many risks. Do NOT be tempted by quick profits. The money will go, the damage will be lasting! Do not add to the trauma of indigenous people who are crying out for fracking projects to stop:
"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola.
Do the right thing, stop any fracking!

Lyn Shiells
****
VIC 3146

Shih, Hsin – Sunday, 14 August 2022 – 14:25:21

Subject	Demand the NT Government stop Origin's reckless fracking plans
From	Hsin Yi Shih
Sent	8/14/2022 2:25:21 PM

People should wake up by now not destroy our precious earth!

Hsin Yi Shih
****
QLD 4113

Shilling, Adrienne – Friday, 12 August 2022 – 20:41:13

Subject	Reject Origin Energy's Fracking Plans in the Beetaloo Basin
From	Adrienne Shilling
Sent	8/12/2022 8:41:13 PM

1. Introduction:
I live in Sydney and was part of a successful movement in my local area (Inner West) that helped stop exploratory CSG drilling due to overwhelming opposition because of the risks to our soil, air quality and landuse (among other effects).
Since then I have maintained an abiding interest in and concern about the effects of CSG drilling and mining in NSW other parts of Australia.
With this submission I state my OBJECTION to Origin Energy's latest plans to drill 12 wells in the Beetaloo Basin.
I cannot believe that yet again, Origin is attempting to lodge this latest submission against the evidence of the majority of scientific opinion, environmentalists and above all, the wishes of the majority of Traditional Owners.
2. My main objections to this latest proposal include:
(a) There is already plenty of gas in Australia. There is no gas shortage. However, there is currently no "gas reservation" on the eastern seaboard although there is one in Western Australia. Most of the produced gas is exported because of financial advantage to the gas companies. This is especially so in the current situation with the Russian-Ukraine war where Origin, among other companies, is making windfall profits (see for example Origin Doubles Revenue While Public Back a Windfall Profits Tax: Poll - The Australia Institute).
(b) In the context of alarming and rapidly increasing effects of global warming on the entire planet including in Australia, methane emissions from gas are a major contributor (Methane: A crucial opportunity in the climate fight - Environmental Defense Fund (edf.org) So why is this proposal even being considered?
(c) Vast amounts of water are required to conduct hydraulic fracturing ('fracking') in drill sites. Where will this water be drawn from – surface or underground aquifers? Either way, the risks of contaminating the water supplies of Traditional Owners and others (for example cattle farmers) is extremely high. If aquifers are contaminated, there is no remediation possible.
(d) Toxic produced/wastewater will become a further environmental threat. Origin has not indicated how it will safely dispose of the vast amounts of waste water that will be produced.
(e) I oppose the use of taxpayers' funds to subside the exploration. Further, more gas extracted in this remote area would take years to produce and ship via pipelines for local consumption (if that is really the aim) or more likely for export. On this point, it is worth noting the views of John Robert, Process Engineer and Industrial Economist, who wrote in Renew Economy in July this year :
"The fact is that the Beetaloo Basin is very remote, from either Darwin in the Northern Territory or Gladstone in Queensland, let alone from the industrial, commercial and domestic gas markets of south-eastern Australia.
Pipelines to take Beetaloo gas to markets would cost billions and may take ten years or more to construct and commission. The pipeline infrastructure, compression energy and resulting emissions required to move gas from such a remote location would make the gas prohibitively expensive for consumers in the population centres of Sydney and Melbourne."
He goes on to say:
"The International Energy Agency's 2021 Roadmap to Net Zero by 2050 says the world can no longer afford to develop any new coal, oil or gas developments globally if we are to have a liveable planet. The proposed new Beetaloo gas development is in direct contradiction to

this.”(Beetaloo Basin: More government subsidies proposed for a failing and risky industry | RenewEconomy).
3. My overriding question therefore is: why, when Australia is already awash with gas, is there any need for further gas extraction? If the real aim is to export it, which countries will bear the immediate brunt of Scope 3 emissions? And if any gas were to remain in Australia for Australia’s consumption, what guarantee is there that Origin (or any other gas miner) would not just impose huge overseas-parity costs on Australian consumers? (Gas Export Facts Show Industry Claims Full of Hot Air - The Australia Institute)
Conclusion:
If this latest application is approved by the NT Government it will demonstrate, yet again, the total abandonment of the wishes and continued existence on their homelands of the Traditional Owners of the area under consideration. How many more times must their claims – based on their need for continuing association with their lands, access to potable water and clean air – be threatened by the negative influences of voracious, climate-wrecking and polluting fossil fuel companies?
As is well known, CSG drilling and mining is extremely intrusive in the landscape – on the surface and underground. It leaves endless damage to soil, on water and air. These effects are well documented. All Australians will suffer the negative consequences of this proposal if approved.

I urge the Department of Environment, Parks and Water Security in the strongest terms to reject this application by Origin Energy.

Adrienne Shilling
****
NSW 2049

Short, Geoff – Saturday, 13 August 2022 – 14:48:21

Subject	Stop Origin's fracking plans
From	Geoff Short
Sent	8/13/2022 2:48:21 PM

I am a 64 year old resident of Adelaide. I am strongly opposed to fracking. I once had the opportunity to share a business lunch table with Grant King when he was MD of Origin Energy. After his keynote address lauding Origin's future fracking plans, I asked him if he could guarantee that his fracking could never result in polluting ground water. He sensibly and honestly replied that he could not make that guarantee. Miscalculation, equipment failure, human error, sabotage and natural disasters (amongst other things) can all lead to fracking tainting ground waters and other natural resources. Once done, that cannot be undone. The damage will be permanent. Clearly, the risks are too high to permit fracking. I support the Traditional Owners' staunch defence of their country against Origin's incursions.
I request in the strongest possible terms that the Department reject Origin's latest Environmental Management Plan re its proposed twelve new "exploration" wells on the Amungee Mungee pastoral station.
Regards, Geoff Short

Geoff Short
****
SA 5031

Shulver, Rick – Friday, 12 August 2022 – 17:29:45

Subject	stop origins fracking plans
From	Rick Shulver
Sent	8/12/2022 5:29:45 PM

To the Northern Territory Department of environment parks and water security.
G" day my name is Rick Shulver, I live in South Australia, over the years I have done a bit of touring in the Territory and have plans for more touring, it is a wonderful part of Australia. I am alarmed at Origin Energy's plans to open twelve new fracking drill sights in the Northern Territory. They have lodged an Environment Management Plan, [EMP] to the NT Government, as part of their application to drill and frack these, EXPLORATION wells on the Amungee Mungee pastoral station, 50kms east of Daly Waters.
In my opinion this will be a disaster for bushland, traditional owner's sacred sites. In a nutshell if this proposal goes ahead it will be a disaster for climate, plus they will poison the water that they don't use, destroy the bushland and wildlife. This horrifying prospect would have the potential to ruin place such as Mataranka, not to mention the Alice Springs water supply. We know what fracking can do, look a the USA, poison water coming out of kitchen taps and in Queensland gas bubbling up in rivers.
If Origin get this approved it will open the floodgates for other fracking idiots too. Fracking bad full stop.
I implore you to do your job to protect the environment, parks and water security and not approve this project and leave a clean future for our following generations.

Yours sincerely,
Rick Shulver
3 Pearson Street,
Mannum, 5238
Mob. *********
Email: **********

g

Rick Shulver
****
SA 5238

Sibly, Una – Saturday, 13 August 2022 – 15:10:54

Subject	Please don’t allow Origin to frack the NT
From	Una Sibly
Sent	8/13/2022 3:10:54 PM

The Northern Territory Department of Environment, Parks and Water Security.

Dear Minister

Please do not allow Origin or any other entity to conduct fracking in the beautiful Northern Territory.
The world is watching - gas is over, access to water would be detrimental to natural supplies and the cultures and natural environment that depend upon it.
Please preserve these resources and conditions that you have - and do not let greedy corporates plunder them. Gas has had its day. Put your effort into finding sustainable and non-harmful ways of powering this country.
Thank you for your kind consideration of this matter.
Yours sincerely

Una Sibly
****
SA 5045

Silva, Jayantha – Sunday, 14 August 2022 – 15:34:34

Subject	jrdesilva1@hotmail.com
From	Jayantha De Silva
Sent	8/14/2022 3:34:34 PM

We completely reject making profits by destroying the environment which belongs to people, now especially the cultural heritage of the helpless traditional owners of this land. These profit makers are like mad dogs biting everything in their path, even after the mandate ALP obtained for the Uluru statement!!! ..... Climate change will kill many people..... including some profiteers and their children as well.
Sam.

Jayantha De Silva
****
QLD 4102

Simpson, Geoff – Friday, 12 August 2022 – 16:16:27

Subject	Stop "exploration" wells on the Amungee Mungee pastoral station
From	Geoff Simpson
Sent	8/12/2022 4:16:27 PM

Dear Sir or Madam,
Origin's plans to open twelve new fracking drills in the Northern Territory are a direct threat to our water, cultural heritage, and our climate.
Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions. Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem.
The 430 million litres of water to drill and frack the twelve wells proposed by Origin will come from the Gum Ridge Formation, the equivalent to 172 Olympic swimming pools of precious water.
The 2018 NT's moratorium on fracking was lifted on the condition that all 135 recommendations from the Pepper Inquiry would be implemented. Under this proposal this will not happen.

Origin's plans to sell the gas from this proposal contravenes the exploratory license they are actually applying for as 'exploratory' licenses approve testing only and are not for profit.

Most importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Yours faithfully,
Geoff SImpson

Geoff Simpson
****
SA 5212

Simpson, Rod – Sunday, 14 August 2022 – 14:41:03

Subject	Fracking Plans: ORIGIN
From	Rod Simpson
Sent	8/14/2022 2:41:03 PM

Recently, it has been reported that the health of many indigenous people, in particular the young and future generations, is at risk because of the contamination of their water supplies.

Large quantities of water are required for fracking. Many Indigenous communities rely on supplies which are often in short supply. Using this water and risking contamination, in the hope of finding unproven reservoirs of gas, is in my view and that of many others untenable.

Please take these matters into consideration dealing with the applications made by Origin and any other company proposing fracking in the Northern Territory.

Rod Simpson
****
WA 6050

Sinclair, Catherine – Sunday, 14 August 2022 – 15:41:06

Subject	Stop Origins Fracking Plans
From	Catherine Sinclair
Sent	8/14/2022 3:41:06 PM

What the heck!!!
Are you NOT listening to the public? We do not want more fracking in this country. Please use common sense and put you investments into renewable energy.

Catherine Sinclair
****
NSW 2360

Sinclair, Lynette – Sunday, 14 August 2022 – 14:15:32

Subject	Re: Origin's Fracking Plans Must Be Stopped
From	Lynette Sinclair
Sent	8/14/2022 2:15:32 PM

There's so much to be concerned about Origin's plans, it's hard to know where to start.

The climate impacts would be monumental, and that's only when considering the emissions they're actually counting.

Origin will need huge amounts of water to frack these twelve drills — 172 Olympic swimming pools worth. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without.

Origin hasn't even completed the regulatory processes required to sell the gas they frack, and yet selling gas is what these plans would do, bypassing crucial government approvals.

Fracking used to be banned in the NT. The only reason that ban was lifted was on the recommendation from a scientific inquiry that all these requirements be adhered to.

There is NO good reason why Origin should be allowed to go ahead with their plans.

Please stop them now!

Lynette Sinclair
****
NSW 2778

Sinnott, Dylan – Friday, 12 August 2022 – 16:53:02

Subject	Stop Origins fracking plans
From	Dylan Sinnott
Sent	8/12/2022 4:53:02 PM

Hi my name is Dylan.

Fracking has terrible effects on the environment and poisons Groundwater, a resource that cannot be treated with disrespect as it is essential to all Australians well being.

Thank you for taking the time to read my submission. Please think about the well being of all Australians, and that of future generations.

Dylan.

Dylan Sinnott
****
VIC 3233

Sipe, Mason – Friday, 12 August 2022 – 05:30:01

Subject	Please Be Responsible & Stop Origin Fracking
From	Mason Sipe
Sent	8/12/2022 5:30:01 AM

Please reject Origin's plans for fracking and ensure that NO FRACKING is done in the NT by anyone.
Set a good precedent for the rest of Australia.
Be responsible for nature, this and future generations.
Thank you in advance for being strong and ending this fracking debacle.
Kind regards,
Mason Sipe

Mason Sipe
****
WA 6018

Skeel, Margaret – Sunday, 14 August 2022 – 11:03:47

Subject	Please stop Origin's fracking plans
From	Margaret Skeel
Sent	8/14/2022 11:03:47 AM

To the NT Department of the Environment

I am a biologist, teacher and supporter of Indigenous communities, both in my home state and throughout Australia. The Traditional Owners oppose Origin's fracking plans and I do too, because it will destroy the country and add have an adverse effect on our climate. We need to find sustainable energy sources, not fracked gas. Fracking is a risk to country, people, water supplies and our climate. It is not worth the risk.

Sincerely
Margaret Skeel

Margaret Skeel
****
NSW 2460

Skelton, Salem – Sunday, 14 August 2022 – 13:07:32

Subject	Stop origins fracking plans
From	Salem Skelton
Sent	8/14/2022 1:07:32 PM

Please do not go ahead with this. Fracking will be terrible for the environment, for the aboriginal people of the NT and ultimately everyone. We have a responsibility to shift to non-toxic, clean renewable energy and to stop pillaging land which was never ours to begin with. Fracking is not the answer here and origin does not care what the negative impacts will be,they only care about their profit margins. Please do the right thing.

Salem Skelton
****
SA 5031

Skilbeck, Neil – Saturday, 13 August 2022 – 06:49:08

Subject	Stop Origins plans to perform fracking in the Northern Territory
From	Neil Skilbeck
Sent	8/13/2022 6:49:08 AM

Northern Territory government
Stop Origin's plans to perform fracking drills within the Northern Territory. These drills have the potential to affect water supplies, indirectly add to the climate problems that we are facing and tourism in the area.
Sincerely
Neil Skilbeck

Neil Skilbeck
****
QLD 4034

Skinner, Erin – Thursday, 11 August 2022 – 15:45:54

Subject	Deny Origin's fracking plans
From	Erin Skinner
Sent	8/11/2022 3:45:54 PM

To whom it may concern at the NT Department of Environment, Parks and Water security,

I am writing in response to the call for public comment on Origin's plans to open 12 new fracking wells in the NT and wish to make clear my position that the NT government should not allow further gas exploration to progress. Such projects are against First Nations' wishes and contribute to Australia's growing carbon emissions. We should be focusing on encouraging renewable energy projects with the appropriate consultation and approval from local First Nations groups to ensure a strong and equitable future for Australia.

Kind regards,
Erin

Erin Skinner
****
SA 5556

Skippings, Tracy – Thursday, 11 August 2022 – 18:41:44

Subject	Origin's Fracking Plans in NT
From	Tracy Skippings
Sent	8/11/2022 6:41:44 PM

N T Department of Environment Parks and Water Safety

Tracy Skippings
102 Exmoor Drive, Margaret Rivet WA 6295

Origin's Plans to frack are "over the top" and "pushing the boundaries " because they want to rush through approvals. Exploratory applications if approved do not permit the sale or production of gas. I live in WA but have just been visiting the Northern Territory and feel I have to comment on this proposal. Any exploration or fracking will be detrimental to your wonderful state with so many natural assets. The " footprint" alone would be excessive with roads, excavations, noise and underground water disturbance. No water should be permitted to be used for mining in the current situation of a drying climate and climate change. Emissions also will be a major concern. Environmentally fracking must be refused and companies persuaded to do more to prevent destruction of our special landscapes.
Your Department must take positive action to maintain the status quo for these lands and also pay more attention to our indigenous people and their rightful concerns.

Tracy Skippings
****
WA 6285

Sloss, Walter – Sunday, 14 August 2022 – 14:40:09

Subject	Re: Origin Energy NT fracking plans
From	Walter Sloss
Sent	8/14/2022 2:40:09 PM

I am writing to oppose the current proposals for twelve new fracking drills in the Northern Territory.
These drills threaten water, cultural heritage, and our climate.
The continuance of fossil fuel strategies is totally against the reality of the last federal election, and reflects a policy and practise which Australia should end in its entirety.
Fossil fuels are yesterday, we should be starting on alternate renewable projects, not the favoured projects of the previous government.
Wally Sloss
18 Curtis Road
Balmain 2041

Walter Sloss
****
NSW 2041

Smaller, Matt – Saturday, 13 August 2022 – 14:16:33

Subject	Stop origin's fracking plans
From	Matt Smaller
Sent	8/13/2022 2:16:33 PM

The fracking plans will be devastating to the environment and the local populace. Stop putting profit before people and community

Matt Smaller
****
NSW 2043

Smart, Helen – Saturday, 13 August 2022 – 09:19:15

Subject	Origins fracking plans
From	Helen Smart
Sent	8/13/2022 9:19:15 AM

Dear Department of Environment, Parks and Water Security,

I am an Origin Energy Shareholder and citizen concerned about climate change in Australia.

Over the last couple of years I have watched with concern as my hometown of Ipswich has been subjected to multiple flooding and bushfire events all of which are increasing in frequency. This has led to massive amounts of damage and disruption and destroyed the lives and livelihoods of people who are already struggling.

As an Origin Energy shareholder I understand the importance of cheap and reliable electricity to drive the economy and maintain people's quality of life, however fracking is not a sustainable means of achieving cheap and reliable electricity. For the sake of our environment and the climate we need to move away from gas and coal towards renewable. Not only that but when you factor in the increasing costs of damage from climate change, continuing to extract goal and gas makes no economic sense.

For the above reasons I ask you to reject the Origin EMP for fracking wells in the Northern Territory.

Helen Smart
****
QLD 4304

Smart, Margaret – Sunday, 14 August 2022 – 21:46:23

Subject	Refuse permission for new fracking drills for Origin
From	Margaret Smart
Sent	8/14/2022 9:46:23 PM

To the N.Territory Department of Water & Fracking
Water is one of the world' s most precious commodities.In Europe at present we are seeing what is happening in farming areas with global warming & unprecedented water shortages.All people must take notice & learn from this.Surely your government 's first priority should be to protect water sources & supplies in the areas you are responsible for & not put them at risk by granting permission for fracking which uses huge amounts of water with no guarantees of any real benefits to the communities in the areas where it is happening.Instead we are likely to see more damage & destruction of the environment & the way of life for the people who live in these areas.Have the courage ,for a change,to stand up to big corporations & refuse to approve plans by Origin for the opening of more new fracking drills.Put the local communities & people first!
Margaret Smart

Margaret Smart
****
VIC 3280

Smart, Steve – Friday, 12 August 2022 – 14:40:27

Subject	Halt Origin's Fracking Plans
From	Steve Smart
Sent	8/12/2022 2:40:27 PM

Where does the damage to culture and community end? Origin's plan appears to represent a backwards leap, returning to wholesale decimation of Traditional Lands. Destroying water supplies means the land becomes uninhabitable, and this is never truer than for remote communities. Fresh drinking water is the most basic of human rights. Please NT Gov, say no to Origin unless they can guarantee they will follow all 135 recommendations of the Pepper Inquiry. I'm betting they can't, and have no intention of doing so. Because they value profit over land and life.

Steve Smart
****
VIC 3011

Smith, Allan – Thursday, 11 August 2022 – 15:27:47

Subject	Stop the fracking plabpnned by Origin
From	Allan Smith
Sent	8/11/2022 3:27:47 PM

With plans by Origin to open twelve new fracking drills in the Northern Territory, our water, cultural heritage, and our climate are at risk

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please think of the long term needs of all Australians.

Allan Smith
****
SA 5042

Smith, Beth – Saturday, 13 August 2022 – 12:25:19

Subject	Stop Origin's fracking plans.
From	Beth Smith
Sent	8/13/2022 12:25:19 PM

Northern Territory Department of Environment, Parks and Water Security.
Fracking is detrimental to the environment. Aside from the multitude of pertinent water issues, the disturbance of soil and rock is increasing wind blown deposits into the oceans and advancing the rise of sea levels.

Beth Smith
****
SA 5051

Smith, Bryan – Thursday, 11 August 2022 – 14:41:12

Subject	gas supply
From	Bryan Smith
Sent	8/11/2022 2:41:12 PM

I have been sent this information to help with opposing the exploration and extraction of gas.
although I respect the opinion of others I also note the irresponsible shutting down of our energy resources that supply us with power/energy.
The climate change people of this country are not looking with open eyes and are telling lies to the uneducated people of this country.
I believe more damage is being done with solar, batteries and wind turbines in there manufacture and the lack of planning for there disposal.
Power to all the people not just the minority groups and alarmists.
You will not publish this as it is not in your interest as another sensationalist media.
regards Bryan

Bryan Smith
****
VIC 3707

Smith, Des – Saturday, 13 August 2022 – 15:55:47

Subject	Stop origins fracking plans
From	Des Smith
Sent	8/13/2022 3:55:47 PM

To the Northern Territory department of environment,
Please do not allow the fracking mines to operate in the Northern Territory. There is no possible reason to allow such dangerous means to gain fuel from the ground. With so many places in Australia struggling to restore damaged environments please don't add another one. Look at what happened in the USA. Job creation is not a legitimate excuse.

Des Smith
****
QLD 4562

Smith, Emily – Saturday, 13 August 2022 – 15:24:42

Subject	Stop Origins fracking plans
From	Emily Smith
Sent	8/13/2022 3:24:42 PM

This needs to stop.

At a time where even scientists are afraid for our climates future Origin wants to move forward faster so as not to miss out on money?
A quick buck for them will mean the world to all of us.

Put an end to it now!

Emily Smith
****
QLD 4510

Smith, Gabrielle – Sunday, 14 August 2022 – 08:29:01

Subject	Submission for Public Comment on Origin Energy B2 Pty Ltd environmental management plan (EMP) for Beetaloo sub-basin
From	Gabrielle Smith
Sent	8/14/2022 8:29:01 AM

My name is Gabrielle Smith and I'm from Sydney, NSW. I'm writing to you to share my concerns with Origin's Amungee NW Delineation Environment Management Plan. I have some very serious concerns about the contents of this EMP :

The Origin Energy Amungee NW project is massive in scale, and if permitted would release over 500,000 tonnes of greenhouse gas emissions over a 3 year period and pose unacceptable risks to water security, as well as to the habitats of numerous threatened species.

Despite holding only an exploration permit, Origin is proposing to keep the 12 wells in this EMP open for 730 days and sell gas to the Macarthur River Mine – this is production by stealth. Allowing Origin to keep their wells open for over 5 times what is usually required to test how much gas is there, and then to sell the gas, would contravene the government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper inquiry recommendations before the industry is fully allowed to go ahead.

Over 500,000 tonnes of direct, scope 1, greenhouse gas emissions would be released under Origin's proposal - equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs. Origin has not addressed the Scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (keeping 12 wells open for more than 5 times the usual appraisal period) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible (ALARP). Origin are claiming that selling the gas will reduce the emissions from the project. This is not true - in fact, under this plan, Origin's wells will be open for 5 times longer than needed to test the resource, creating a massive carbon footprint of over 2 million tonnes CO2-e. Most of these emissions would be 'scope 3' (from combusting the gas) rather than 'scope 1', so Origin can make them someone else's problem. These emissions will still hurt the climate and they would still count towards the NT emissions targets.

Origin's proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species exist, including recently discovered endemic stygofauna (small invertebrates like shrimps which live in groundwater). The EMP does not include any measures to monitor for or protect these underground species.

Origin Energy want to drill and frack throughout the year, with the first two wells scheduled to be drilled over the ********* wet season. This would completely ignore the more severe environmental risks that occur in the wet season and the risks of flooding and waste water overflow and contamination.

Origin Energy will need 430 million litres of water to drill and frack the 12 wells and will be taking it from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. They will also produce 90 million litres of wastewater which they are planning to truck interstate

I call on you as the minister to please reject this EMP due to the significant impacts it poses to climate, local biodiversity and to groundwater. Please stop Origin moving to production by stealth. Please refer this EMP to the Environment Protection Agency under the Environment Protection act for full and thorough assessment given the significant impacts it will have on climate, water and biodiversity.

I hope you take my concerns into account and I will be following the progress of this application closely.

Yours sincerely,

Gabrielle Smith

Mosman, Sydney, NSW.

********** <mailto:**********>

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Smith, Gai – Saturday, 13 August 2022 – 11:39:32

Subject	Please STOP Origin's plans to frack in the Northern Territory
From	Gai Smith
Sent	8/13/2022 11:39:32 AM

I have seen photos of what fracking has done in the United States, and it's horrifying! Fracking in the Northern territory risks polluting water sources. It will destroy the sacred lands of First Nations people who have cared for those lands for more than 60,000 years. We know fossil fuels must STAY IN THE GROUND - their use will increase global warming, to the detriment of ALL that we ALL treasure. Our future depends on the wisdom of your decision. For all our sakes, DON'T allow Origin to frack in the Northern Territory.

Gai Smith
****
NSW 2016

Smith, Greg – Thursday, 11 August 2022 – 14:19:18

Subject	Stop Origin's fracking proposal
From	Greg Smith
Sent	8/11/2022 2:19:18 PM

As a concerned Australian, I believe they any fracking venture is a risk not worth taking. The long term effects on ground water are as yet unknown. The climate impacts of the mining and gas produced are unsustainable. Lastly, it would seem that the traditional owners are against Origin's fracking proposal. I trust that these considerations are front-of-mind in your deliberations and that the NY government will therefore reject Origin's proposal.
Sincerely
Greg Smith

Greg Smith
****
VIC 3220

Smith, Helen – Friday, 12 August 2022 – 14:59:35

Subject	No fracking in the NT
From	Helen Smith
Sent	8/12/2022 2:59:35 PM

I am horrified that the NT Government is still pursuing support for the gas industry and fracking. The gas led recovery has turned out a farce. Producers are sending gas offshore. There is no gas shortage, it is a situation manipulated by producers and their desire to maximise profits at all costs. Please respect the traditional
Owners, do the best for the climate - a stop all fracking.
Regards
Helen Smith

Helen Smith
****
NSW 2065

Smith, Jennifer – Sunday, 14 August 2022 – 14:28:44

Subject	Reject all fracking plans.
From	Jennifer Smith
Sent	8/14/2022 2:28:44 PM

To the Northern Territory department of Parks, Environment and Security

I'm an Australian who is deeply concerned about the future health of our land. The existing damage done has polluted water, destroyed heritage and made land uninhabitable. I'm writing to request that you stop allowing this to happen.
I have seen there are more requests to frack NT land by Origin and really I'm incensed that we have to continue to fight against what we've already said No to. Whether it's Origin or anyone else, agreeing to, even thinking about agreeing to seems incredibly short sighted. The water required, and polluted, doesn't exist in a country that has little water resources and a huge need.

Fracking is such a destructive practice, banned in most countries, but allowed here, Why?, please, it must not be allowed. The traditional owners do not want this to happen and really, if it's a totally benign practice then fracking in the towns and dwelling places of the wealthy corporation owners would be happening.
We must put the costs and time into building renewable energy systems. The plentiful resources of sun and wind in this area can create enough energy for the whole country and sell on to other countries. This will last for ever. Fracking will destroy and then stop, there is absolutely no future for gas.
We must protect country.
Sincerely
Jenny Smith
11 Marcus Ave, West Footscray, Vic 3012

Jennifer Smith
****
VIC 3012

Smith, Julia – Saturday, 13 August 2022 – 12:48:55

Subject	Stop fracking in the Northern Territory
From	Julia Smith
Sent	8/13/2022 12:48:55 PM

Northern Territory Parks and Wildland administration:
Fracking does untold harm to water supplies and especially artesian water. Water is a basic necessity for all life and its quality should be protected, especially by those whom we, the Australian public, have elected to protect our national parks and wildlands. STOP FRACKING in the N.T.

Julia Smith
****
NSW 2620

Smith, Lauren – Thursday, 11 August 2022 – 18:35:12

Subject	Please Stop Origin's Fracking Plans
From	Lauren Smith
Sent	8/11/2022 6:35:12 PM

Dear The Northern Territory Department of Environment, Parks and Water Security.

Please listen to the True Custodians, The First Nations Custodians of the land in which Origin is planning to frack on, and do not allow these fracking projects to go ahead. They will cause so much damage. Please respect the True Custodians of the land.

Regards,

Lauren Smith

Lauren Smith
****
QLD 4053

Smith, Martin – Thursday, 11 August 2022 – 19:21:26

Subject	Stop Origin's Fracking Plans
From	Martin Smith
Sent	8/11/2022 7:21:26 PM

to Northern Territory's Department of Environment, Parks and Water Security
I am a retired professional engineer who worked in the energy sector for more than 50 years.
Origin has launched plans for twelve new fracking drills in the Northern Territory. Unfortunately, Origin is doing anything it can to bypass proper processes, all without consent.
Fracking used to be banned in the NT, with good reason. The only reason that ban was lifted was on the recommendation from a scientific inquiry that a range of requirements be adhered to. Origin has not demonstrated that it will or can comply with the associated regulatory requirements, or that it even has any interest in doing so.
Even without it being outright banned (which would be my strong preference) the approach towards making an approval decision should be simple and straightforward - as long as fracking impacts our climate, water, and communities, it cannot be allowed.
I respectfully suggest that you reimpose a ban on fracking, and in the immediate term reject Origin's plans.

Martin Smith
****
NSW 2630

Smith, Maude – Saturday, 13 August 2022 – 07:08:18

Subject	NO MORE FRACKING
From	Maude Smith
Sent	8/13/2022 7:08:18 AM

Fracking must stop environmental science is very clear about the damage caused. The planet is on a knife edge fracking and fossil fuel mining has to be halted there is no choice anymore.

Maude Smith
****
VIC 3122

Smith, Richard – Friday, 12 August 2022 – 14:57:56

Subject	NO MORE FRACKING
From	Richard Smith
Sent	8/12/2022 2:57:56 PM

When are we ever going to these these companies raping our country and polluting our world?
NT Government the ball is in your court and you have the power to say NO.
JUST SAY NO, NO MORE.

Richard Smith
****
VIC 3678

Smith, Rose – Sunday, 14 August 2022 – 15:25:45

Subject	Stop fracking ASAP
From	Rose Smith Smith
Sent	8/14/2022 3:25:45 PM

I am a concerned Australian citizen. I demand the NT Government stop Origin's reckless fracking plans.

These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

See the damage and irreversible devastation that occurred in other places, like the USA.

Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory system.

Please protect our land and our people for future generations,
Rose

Rose Smith Smith
****
VIC 3070

Smith, Shaaron – Saturday, 13 August 2022 – 19:29:00

Subject	Stop Origin fracking
From	Shaaron Smith
Sent	8/13/2022 7:29:00 PM

To whom it may concern
This concerns everybody.
Stopping the fracking of our precious land.
Water is important to our livelihood and fracking is a terrible risk.
This the driest place in our world,why give our water away to thoughtless companies.
Please don't let fracking happen anywhere.
Shaaron Smith

shaaron smith
****
VIC 3759

Smith, Synthia – Sunday, 14 August 2022 – 15:48:45

Subject	Please stop Origin's fracking plans
From	Synthia Smith
Sent	8/14/2022 3:48:45 PM

Northern Territory Department of Environment, Parks and Water Security

Dear Sirs,

Please investigate and reject Origin Energy's plans to frack areas in the Northern Territory. This activity will contravene the Territory legislation in place to protect water security, and Traditional Owners sacred sites as well as adding to Australia's carbon footprint.

Instead please invest in and support carbon neutral energy creation and be Trail Blazers in Australia.

Regards,
Synthia Smith

Synthia Smith
****
NSW 2221

Smith, Veronique – Friday, 12 August 2022 – 09:42:39

Subject	"Hell" no to Origin fracking!
From	Veronique Smith
Sent	8/12/2022 9:42:39 AM

To the Northern Territory Department of Environment, Parks and Water Security,
As someone who has had the privilege of living and working in an aboriginal community, and my son is a residence of Northern Territory, I feel very protective of the beauty of our glorious land and all that lives on it.
Fracking destroys life using large amounts of water, water that is especially precious in the vast amount of arid land in our country and contaminates local groundwater. It leaks methane which is more potent than carbon dioxide and is associated with other airborne hydrocarbons causing health and respiratory issues.
I am horrified such a proposal is even being considered.
It is way past time that we listened to the original inhabitants of this land and valued their wise guardianship above chasing the dollar before our country becomes inhabitable!
I implore you, the Government of Northern Territory to preserve what you have by rejecting Origin's EMP!

Veronique Smith
****
VIC 3227

Smurthwaite, Marie – Saturday, 13 August 2022 – 11:20:56

Subject	Don’t let origin frack the NT!
From	Marie Smurthwaite
Sent	8/13/2022 11:20:56 AM

Plain and simple, no to fracking. So many important, valid reasons why. But at the end of the day, no. No. With burning feeling, no. Fracking shouldn’t be allowed AT ALL.

Thank you.

Marie Smurthwaite
****
WA 6163

Smyth, Jean – Thursday, 11 August 2022 – 14:57:17

Subject	Stop Origin's Reckless Fracking Plans
From	Jean Smyth
Sent	8/11/2022 2:57:17 PM

These plans will destroy First Nations' cultural sites, and cause havoc to land, water and climate.

Jean Smyth
****
ACT 2906

Smythe, Christina – Sunday, 14 August 2022 – 20:11:20

Subject	Stop origins fracking plans
From	Christina Smythe
Sent	8/14/2022 8:11:20 PM

I object to fracking…as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Christina Smythe
****
VIC 3305

Sneath, Eileen – Sunday, 14 August 2022 – 12:36:41

Subject	eileens7@bigpond.ccom
From	Eileen Sneath
Sent	8/14/2022 12:36:41 PM

For the Attention of the
NT Government

I have heard that Origin plans to open twelve new fracking drills.

Please, prevent this from happening. Please consider the health of the people you represent and Australia's future.

The Science is clear. Our health and Economy cannot afford new Fossil Fuel Mining.

It is truly a Crime against humanity to continue on this path,

Australia is already suffering the effect of Global Warming and as a Great-Grandmother I have fears for the future of my family and families worldwide

I hope you will carefully consider your decisions. It is the responsibility of this generation to ensure a sustainable future for following generations.

There can be no healthy economy without a healthy environment, and we now have the wherewithal to swiftly transition to renewable energy.

In hope, yours sincerely,

Eileen Sneath

Eileen Sneath
****
QLD 4065

Snow, Angela – Friday, 12 August 2022 – 18:13:56

Subject	no more fracking!
From	Angela Snow
Sent	8/12/2022 6:13:56 PM

NT Dept of Water Security

dear sir/madam

i beg you not to allow any fracking in the NT. it is a disastrous technology, and is rightly banned in some other states.

please listen to all the ordinary people who write to you. we do not want this in our land.

angela snow
****
VIC 3085

Soest, Marcelle – Friday, 12 August 2022 – 07:19:28

Subject	STOP ORIGIN'S FRACKING DEVASTATION OF COUNTRY
From	Marcelle Van Soest
Sent	8/12/2022 7:19:28 AM

WHY?
Why would ANYONE or ANY GOVERNMENT approve this abomination, allowing a company to devastate the land, destroy water and add, in a dangerous and devastating way, to CLIMATE CHANGE. The Traditional Owners have totally rejected and objected to Origin's plans and if Northern Territory Government allow it to go ahead, it will be putting in train, a horrifying chain of events that will irreversibly devastate the climate and the land.
PLEASE DO NOT ALLOW ORIGIN TO GO AHEAD.
DO NOT PUT PROFIT AHEAD OF HUMANITY & CLIMATE
REMEMBER, IT AFFECTS YOUR CHILDREN AND GRANDCHILDREN TOO IN PERPETUITY.
IF YOU ALLOW IT, IT WILL ALREADY BE TOO LATE.
IRREVERSIBLE, PERMANENT & DEVASTATING TO THE PLANET.
STOP ORIGIN IN ITS' TRACKS NOW.

Marcelle van Soest
****
WA 6030

Sofo, Catrina – Friday, 12 August 2022 – 08:11:43

Subject	Stop Origin Energy's Fracking Plans
From	Catrina Sofo
Sent	8/12/2022 8:11:43 AM

I'm writing to express my deep concern with plans to allow Origin Energy to engage in fracking in 12 sites in the NT. We need to protect our natural environment, meaningfully plan for climate change and listen to our Indigenous communities. Let's see some real leadership from the NT government in looking after people, not corporations.

Warm regards,
Catrina Sofo

Catrina Sofo
****
VIC 3193

Sola, Maria – Sunday, 14 August 2022 – 05:59:24

Subject	Stop Origin fracking
From	Maria Sola
Sent	8/14/2022 5:59:24 AM

I am totally opposed to more fracking.

Maria Sola
****
VIC 3079

Solondz, Karin – Monday, 15 August 2022 – 18:01:12

Subject	Stop Origins mad fracking plans
From	Karin Solondz
Sent	8/15/2022 6:01:12 PM

Hello fellow human beings, it is up to you and all of us to do our bit to stop the mad non-human, non constituent mad machine called origin energy and others like it from making future generations extinct. It's no longer just about other species if you do your homework. Nor is it about the future, it's about now and your own lives living in a burning planet of droughts, floods, food and water shortages.
Regards,
Karin

Karin Solondz
****
NSW 2256

Sorensen, Denise – Sunday, 14 August 2022 – 19:43:09

Subject	Stop Origin's cracking plans
From	Denise Sorensen
Sent	8/14/2022 7:43:09 PM

To the Northern Territory Department of Environment, Parks and Water Security.
Please do not allow Origin to continue with their fracking plans.
The Traditional Owners have always opposed this and I believe they are right to do so. By going ahead the communities in the vicinity are at risk of losing their water supply, or having it contaminated. The emissions from the drilling will also add to climate change, which affects us all. It will also impact the cultural heritage of the various tribes who inhabit the area.
As well as that I understand that the regulatory processes already put in place have not been adhered to by the company.
For these reasons, and because I oppose fracking in general as harmful to the planet, I ask for your support in declining permission for this venture.
Denise Sorensen

Denise Sorensen
****
QLD 4125

Souter, Jan – Sunday, 14 August 2022 – 14:18:15

Subject	Origin Does Not Care About Australia's Future.
From	Jan Souter
Sent	8/14/2022 2:18:15 PM

Origin, I have just left you for a company that cares about Australia's future. I was too gentle with my reasons for leaving and now I find you are going to dig 12 new Fracking drills in the Northern Territory I am going to stir my friends to leave you also.
I am so glad I broke my ties with you! Jan Souter

Jan Souter
****
VIC 3350

Souter, Lynne – Saturday, 13 August 2022 – 19:33:21

Subject	No to Origin's fracking plans
From	Lynne Souter
Sent	8/13/2022 7:33:21 PM

Having spent some time in your beautiful Territory earlier this year I am horrified to read that Origin has submitted an EMP for 12 fracking wells.

Whilst I appreciate that Origin is a private company and has shareholders to answer to, the time to stop destroying our lands to find gas and to listen to the traditional owners has come.

I don't believe you would want to be known as the Authority that allowed further damage to the lands and waterways and exacerbated climate issues by this proposal. I'm also concerned about the water that is required to be used along with the toxic wastewater that will need to be disposed of - where would it go?

Origin needs to get into renewable energy and stop the old ways. Leave the gas where it is!

Please reject the submission of Origin.

Sincerely
Lynne Souter

Lynne Souter
****
VIC 3350

South, Tony – Saturday, 13 August 2022 – 10:41:38

Subject	Stop fracking everywhere.
From	Tony South
Sent	8/13/2022 10:41:38 AM

Going ahead with your plans for multiple fracking sites will win you massive public disapproval and do nothing to slow global warming. Don't do it.
Tony South.

Tony South
****
SA 5038

Sowter, Betty – Friday, 12 August 2022 – 15:10:17

Subject	fracking
From	Betty Sowter
Sent	8/12/2022 3:10:17 PM

we can't just stand mutely by while origin rakes in multi billions at our expense.
the danger to ground water is well known and of course the climate price we all pay. ....some more than others.
We are left to assume Origin and its shareholders are content to watch us burn and/or drown.

betty sowter
****
NSW 2120

Spacek, Mandy – Monday, 15 August 2022 – 12:49:51

Subject	Fracking in The NT by ORIGIN
From	Mandy Spacek
Sent	8/15/2022 12:49:51 PM

This really sucks, it has been proven that fracking contaminates soil and water, so why do it. I will never be an ORIGIN CUSTOMER AFTER WHAT THEY PROPOSE.

Mandy Spacek

mandy spacek
****
NSW 2322

Spadaro, Vivian – Sunday, 14 August 2022 – 17:02:39

Subject	Stop—Origin's fracking plans
From	Vivian Spadaro
Sent	8/14/2022 5:02:39 PM

To the Northern Territory Minister for the Environment, Parks and Water,

Given the result of the Fed

Vivian Spadaro
****
NSW 2011

Spafford, Peter – Monday, 15 August 2022 – 19:46:06

Subject	Concern regarding Origin Energy
From	Peter J. Spafford
Sent	8/15/2022 7:46:06 PM

Please find attached my letter of concern regarding the recent application by Origin Energy

Attached Documents

PO Box 1767
Katherine
NT 0851
15 August 2022

Dear Hon Environment Minister Lauren Moss

My name is Peter John (PJ) Spafford and I live in Katherine

I am writing to you to share my concerns with Origin's Amungee NW Delineation EMP.

My connection to this issue is about the water allocation.

I do believe that the Pepper Inquiry recommended that no further water extraction licenses be granted in that area as there is insufficient scientific information to determine the water resource amount nor the recharging of the resource.

I also believe that the monitoring of contamination from fracking has not been in accordance with the Pepper Inquiry and that the methods currently used for this are inadequate.

In addition, it appears that fracking may occur in the wet season when waste cannot be contained reliably.

My conclusion is that to extract water from a reservoir of unknown size and unknown (and unpredictable) recharge is irresponsible.

To also put that resource at risk of pollution so affecting flora, fauna and human populations now and into the future is positively dangerous

I call on you as the minister to please refer the entire EMP to the EPA for a full EIS

I hope you take my concerns into account and will follow the progress of this application closely.

Kind regards,

PJ Spafford, Katherine resident, Phone 0411080309

Sparks, Robyn – Saturday, 13 August 2022 – 07:19:43

Subject	Stop the Fracking!
From	Robyn Sparks
Sent	8/13/2022 7:19:43 AM

Solar power, wind, no Fracking

Robyn Sparks
****
NSW 2481

Speedy, Ky – Friday, 12 August 2022 – 15:14:45

Subject	Origin's Fracking Plans
From	Ky Speedy
Sent	8/12/2022 3:14:45 PM

I'm a Year Twelve Student living in South Australia. I've grown up to understand that my future is not decided by me but the corporations that govern our government. It's a depressing reality, and there are a lot of factors involved. I'm writing to the NT Department of Environment, Parks and Water security asking that they make a decision of integrity. A decision that promotes a message of hope, compassion and understanding. This decision would be to reject Origin's "fracking" plans, not support it. To support such a thing would be against your department's mission. If it's your mission to serve, then serve; not serve corporations, but people. The planet. That's a department I'd like to see. I think we all would.

All the best,
Ky Speedy.

Ky Speedy
****
SA 5069

Spencer, Christine – Thursday, 11 August 2022 – 19:28:54

Subject	Stop Origen's Fracking Plans
From	Christine Spencer
Sent	8/11/2022 7:28:54 PM

The Northern Territory Government,
Water and Parks Departments.

Fracking is highly destructive to our climate, to the land, to the perfect Eco-Balance that Nature provides for us when we look after it. It destroys the natural water supplies. It uses enormous quantities of water that are necessary to maintain life in these hot, outback areas where the Traditional owners have been the Custodians and Keepers of these lands for centuries. They know how to respect and honour what God provides for all of us free of charge. We, of Eurpoean descent, could learn much if we truely listened to their wisdom and knowledge that has been passed down for generations.

Protect the land, their cultural heritage and all the many facets of Nature that will be destroyed in the name of greed if Origen are given permission to go ahead. Our Government has just agreed that gas should not be continued and should be replaced in housing by electricity. Why is this even being considered. When you give one company permission then others will follow.

Please listen to the sincere voices of the people who speak on behalf of the land on which we all live that has no voice and not to the money making, greedy corporations.
Sincerely,
Christine Spencer

Christine spencer
****
VIC 3088

Spice, Derek – Sunday, 14 August 2022 – 15:08:46

Subject	STOP Origins fracking plans
From	Derek Spice
Sent	8/14/2022 3:08:46 PM

Origin's plans to frack in the Northern Territory
are a serious threat to the water supplies and cultural heritage of the region. I urge to to refuse permission for this environmentally threatening project to go ahead.

Derek Spice
****
NSW 2482

Spiers, Andrew – Sunday, 14 August 2022 – 11:00:39

Subject	Stop all plans to access “unconventional” gas reserves by fracking in the Northern Territory.
From	Andrew Spiers
Sent	8/14/2022 11:00:39 AM

To: NT Department of Environment, Parks and Water Security.
The plans that Origen and others have to frack for gas in the Northern Territory should not be allowed to be implemented. There is a well-established consensus amongst the scientific community that in order to prevent catastrophic damage to this planet by global warming, no more fossil fuel projects should be approved. This includes natural gas harvesting. If authorities and/or government in the NT ignore this advice, they will be responsible for further deterioration of our climate, with eventual catastrophic results for life on this planet. If Origen Energy are willing to prioritise short term profits for their corporation over the welfare of future generations of Northern Territory residents and communities all over the world, this should NOT be an action in which public sector employees and politicians of the NT should be complicit! Any approval given to Origen or any other company to further prospect for or harvest natural gas, by whatever means, will be judged by this and future generations as foolhardy, negligent and reprehensible in the face of international scientific advice. Apply the Precautionary Principle to all such applications and reject them.
Sincerely,
Andrew Spiers, BA Planning, Grad Dip Env Sc, Grad Dip Ed.

Andrew Spiers
****
NT 0841

Spiers, Sandy – Friday, 12 August 2022 – 14:44:14

Subject	Re: Automatic reply: Stop Origins Fracking Plan ms.
From	Sandy Spiers
Sent	8/12/2022 2:44:14 PM

We are not looking for documents that no one understands as you have sent here. Do you think you consider the voting people of our lands that oppose this disastrous attempt to drill against the voices screaming out for it NOT to take place? Research has shown the dangers and ignorance of your decision. You don't have to live near it. Not to mention the ripple effects it will have inside the earth. It is not your right to allow such horrific behaviour by money making profiteers on our lands.
The public say NO.

On Fri, 12 Aug 2022 at 3:03 pm, OriginPetroleum DEPWS <********** <mailto:**********> > wrote:

Thank you for your comment regarding Origin Energy B2 Pty Ltd Amungee NW Delineation Program EP98 Environment Management Plan. Your comment will be provided to the Minister for the Environment for consideration under Regulation 11 of the Petroleum (Environment) Regulations 2016. The Minister will make a decision regarding the EMP and will publish the EMP, Approval Notice and Statement of Reasons and all public submissions received during the public comment period, within 14 days of the decision in accordance with Regulation 24. In accordance with the DEPWS "Guidance for Public Submission on Petroleum Environment Management Plans" February 2020, any comments received after midnight 15 August 2022 will not be accepted as a public submission and therefore not considered under Regulation 11. Information about EMPs, including those under review and past approvals, can be found at: https://depws.nt.gov.au/onshore-gas/environment-management-plan .

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Sandy Spiers
Director

********** <mailto:**********>

********* 554

Spiers, William – Sunday, 14 August 2022 – 16:34:59

Subject	NT Fracking
From	William Spiers
Sent	8/14/2022 4:34:59 PM

We are supporting calls to reject fracking in the NT. It is all so unnecessary.

NO NEW FOSSIL FUEL PROJECTS COULD POSSIBLY BE SEEN AS IN THE PUBLIC INTEREST GIVEN THE 40 YEARS OF SCIENCE WE HAVE CHOSEN TO IGNORE TO DATE. Hopefully coal, oil and gas will meet their financial viability tipping points before the planet reaches its final environmental tipping point. Sadly this looks more and more unlikely.

The world has plenty of fossil fuels already available to cushion the transition to renewables and total electrification.

Please make a start towards prevention of exacerbation of our already obvious climate change consequences.

William Spiers
****
QLD 4710

Spijer, Daan – Saturday, 13 August 2022 – 14:13:59

Subject	Stop New Fracking Projects
From	Daan Spijer
Sent	8/13/2022 2:13:59 PM

Chief Minister
Northern Territory

Dear Minister,

I am aware that there are huge and powerful interests lobbying the NT Govenment to allow new gas fields. The government cannot consider itself beholden to the fossil fuel industry as that industry continues to pour CO2 and methane into the atmosphere and continues to export coal and gas to other countries to do the same.

I understand that the winding down of coal and gas mining and the burning of these fossil fuels in Australia needs to be achieved in a manner that keeps electricity being generated as we transition towards 100% renewable generation and that those working in those industries -- and the communities that rely on them -- need to be assisted to change how they earn their income.

However, it makes absolutely no sense to allow any business to open new gas extraction fields. Ausrtalia already extracts enough coal and gas for its diminishing domestic needs and the mining companies are already making huge incomes and profits from exploitation of their current mines and gas fields and from exporting the spoils from these. Any new coal and gas exraction woul be for export and to make these companies even richer.

The new federal government was recently elected on the tide of public sentiment that urgent action is needed to divest the country of fossil fuels and fossil fuel mining and the NT Government should take note of this sentiment. Your government represents the NT people, not the fossil fuel companies, especially not those that are foreign owned and/or controlled.

The planet is facing imminent damage from the warming climate. Increasing the amount of fossil fuel that is burned around the world can only make this worse and increases the threat to the continued survival of all species, including humans.

I urge the NT Government to disallow any new gas extraction projects.

Sincerely,
Daan Spijer LLB

Daan Spijer
****
VIC 3930

Sporne, John – Saturday, 13 August 2022 – 11:45:52

Subject	STOP ORGIN FRACKING OFF UNDER GROUND GAS THAT CAN LEAK INTO UNDER WATER TABLE
From	John Sporne
Sent	8/13/2022 11:45:52 AM

Fracking of under ground gas should not be done if there is no guarantee that it will not leak into underground water table in Australia at all. And should not be done in Aboriginal tradition cultural area at all

John Sporne
****
QLD 4740

Springer, Sahaja – Saturday, 13 August 2022 – 15:03:49

Subject	Environmental Lunacy
From	Sahaja Springer
Sent	8/13/2022 3:03:49 PM

Good afternoon,

I am taking time out of my valuable day to write this submission because I believe that to consider fracking the NT and or any of our island home to be a form of lunacy that cannot be condoned

There are countless examples of the dangers to groundwater by the practice of fracking and therefore to our community and our country via climate change.
If the NT Govt is still considering approval of new drilling by Origin it is demonstrating a complete lack of regard for the environment and for each and every one of us who depend on the land we inhabit for our survival.
This is a serious issue and needs a considered approach and whilst I realise this submission may seem inflammatory and I am definitely not an environmental scientist I have researched enough studies to say that enough is enough.

I ask that the NT Govt please put a stop to Origin's plans before it is too late,

Regards,
Sahaja Springer

Sahaja Springer
****
WA 6157

Sri, Anna – Sunday, 14 August 2022 – 18:01:29

Subject	Save our wildlife
From	Anna Sri
Sent	8/14/2022 6:01:29 PM

As a veterinarian, the impact of fracking on groundwater and wildlife is unacceptable. The NT government should not support fracking.

Anna Sri
****
QLD 4551

Stack, Lisa – Saturday, 13 August 2022 – 06:27:16

Subject	Stop Origins fracking plans in NT
From	Lisa Stack
Sent	8/13/2022 6:27:16 AM

I am appalled to hear Origin Energy have plans to open 12 new fracking sights in the NT.
The devastation to country and precious water resources used and contaminated for short term profiteering is an outrage.
This would set a dangerous precedent for future projects if it were to go ahead.
The floods and bushfires and extreme weather events we've been experiencing lately is a wake up call, climate action has to be addressed.
Fracking the NT is not what is called for.
Reject origins plans from going ahead.

Lisa Stack
****
NSW 2010

Staker, John – Sunday, 14 August 2022 – 20:13:49

Subject	The Australian taxpayer should NOT be subsidising the fracking of gas reserve
From	John Staker
Sent	8/14/2022 8:13:49 PM

To Northern Territory Parks & wildlife department,
I believe Origen Energy's plans to Drill fracking wells in the NT. is totally irresponsible . The risks to Water supply & The potential damage to the environment are just too high.

John Staker

John Staker
****
SA 5420

Stanfield, Malcolm – Thursday, 11 August 2022 – 15:00:20

Subject	Stop Origins fracking of the NT
From	Malcolm Stanfield
Sent	8/11/2022 3:00:20 PM

To

The Northern Territory Department of Environment,Parks and Water security.

As a citizen of Australia, I am deeply concerned with the practice of fracking. The chemicals that are used and the irreversible damage to the underground water systems is horrendous and should not even be considered. These water systems are the life blood of the continent. It is outrageous that the Origin company is putting profit before water quality.
I feel it's time that Australia shows some backbone and stands up for it's own populations quality of life, rather than kowtowing to large companies that rape the earth for profit.
How would you like a gas well in your backyard??
kindest regards Malcolm Stanfield

malcolm stanfield
****
QLD 4019

Stanford, Carole – Monday, 15 August 2022 – 21:56:50

Subject	Stop Origin Energy's fracking plans
From	Carole Stanford
Sent	8/15/2022 9:56:50 PM

To the Northern Territory Department of Environment, Parks and Water Security.

I am calling on you to reject the application by Origin Energy to construct 12 exploration wells at Amungee Mungee pastoral station.

It is, in the first instance, extremely worrying that any proposals are being considered before all of the 135 recommendations that came out of the Pepper Inquiry to mitigate environmental, cultural, social and iconic risks associated with gas-fracking have been implemented.

As to risks, quite apart from the blight on the landscape of wells, there will likely be leaks - firstly, methane leaks. Methane is a potent greenhouse gas, with its effect being 28 times that of carbon dioxide in the short term. Studies with data using satellites and drones have shown that methane leaks from wells themselves and from pipelines are common such that "the energy sector – including oil, natural gas, coal and bioenergy – accounts for around 40% methane emissions from human activity" (IEA 2022). Further, some companies are very sloppy: "a small group of massive, 'super-emitting' methane leaks is disproportionately responsible for methane emissions from the oil and gas sector" and such leaks may represent 50% of methane emissions from the Permian Basin (under Texas and New Mexico) between 2019 and 2021. A super-emitter was defined for the purpose of the report as a source leaking more than or equal to 26 kg/h methane. Further, 20% of the emission sources were responsible for 60% of the detected methane emissions during an aerial survey of the Permian Basin. (U.S House of Representatives Committee on Science, Space, & Technology 2022). Do we really want to follow the path of the U.S.?

Charles Darwin University researchers identified new species of stygofauna, dominated by crustaceans (shrimps, amphipods, ostracods, copepods and syncarids) that are unique to the area, in the aquifers in the vicinity of the Beetaloo Bason. these tiny creatures have been known to locals for a long time. One species of blind shrimp, Parisia unguis, occurs extensively in the aquifer over a distance of at least 300 km. The presence of the same species at widely separated sites points to substantial connectivity within the aquifer, that is, the aquifers are interlinked. (GISERA 2020, Oberprieler 2021, Rees 2020).

Fracking involves drilling through the aquifers into the rock layers and injecting a cocktail of chemicals including biocides (substances that kill living things) at high pressure to fracture the rock and release the gas. Stygofauna will be threatened by biocides and other toxic chemicals in the fracking fluid that leak into the water. Reports indicate that chemicals in fracking fluid pumped underground at one exploratory well in the Basin have been detected in samples many kilometres away, indicating transport via the "underground rivers" to the testing bores. Contamination events from wells drilled for the extraction of shale gas may therefore have effects that will not be confined to a small area but will likely be widespread. Australia is already notorious for its extinction of species and here are some more whose survival we are compromising. Just because they are small doesn't mean they don't matter.

In addition, the research also revealed that the stygofauna feed on bacteria that would otherwise make the groundwater unusable for people, livestock and wildlife. The area being

an arid zone and the climate being quite variable, dependency on groundwater means that contamination of groundwater has much wider implications for the health and, in some cases, survival, of living creatures higher up the food chain.

Fracking operations use large amounts of water - water that is precious in an arid zone. Origin Energy is proposing use of 430 litres of water to drill and frack the 12 wells proposed. Just because they are suggesting that they would truck some wastewater (a fifth of that consumed) interstate - thereby making their problem that of another jurisdiction, does not represent any sort of appeasement.

The reports of the IPCC should be taken very seriously. Their projections with respect to how our temperatures are tracking have already been exceeded. After all, what is ultimately published in those reports has to be "accepted" by multiple parties, so they are conservative. Any emissions will add to the concentration of greenhouse gases in the atmosphere and we are at a critical point. If we are very lucky, a brief window of opportunity to reduce worldwide carbon dioxide (CO2-equivalent) contributions may exist, that may then keep average global temperatures no more than 2 C what they were in 2005. My concern is that, quite apart from any emissions (even seemingly small by the proposed exploration wells), approving these wells will "open the flood gate", so to speak, in so far as there will be substantial pressure to approve subsequent production wells.

Nor can it be assumed that the applicant will abide by the rules. Origin Energy's own documents indicate that they intend to sell the gas it finds in its exploration wells, although that is not permitted.

Then it needs to be asked, who benefits? Most of any of the gas ultimately produced will be exported and the profits thereby made will go into the pockets of a very small number of people - not the pastoralists, let alone the traditional owners, not the residents of the Northern Territory, or Australians more widely. There will be a few jobs, but to whom? Fly-in fly-out workers? Taxes paid will be minuscule. Royalties and revenue to the NT Government will be small.

I therefore ask that you do not risk being portrayed as a pariah and vandal in the nation and in the world at large by virtue of approving projects, such as these exploration wells proposed by Origin Energy, whose consequences for many are huge.

We cannot knowingly risk the costs to our local environment, to our First Nations communities, to the planet.

Rather, please endeavour to negotiate with the Federal Government for more funds to support the Northern Territory's budget instead of considering taking any revenue that might flow from such tainted hands.

I, for one, would far prefer to praise the good job a government might be doing than criticising it.

Carole Stanford

References

GISERA 2020, Stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory, Surface and groundwater factsheet, December, https://gisera.csiro.au/wp-content/uploads/2021/02/20-00341_GISERA_FACTSHEET_SGW-NTStygofauna_WEB_210210.pdf

IEA 2022, Global methane tracker, February, https://www.iea.org/reports/global-methane-tracker-2022

IPCC, 2022: Climate Change 2022: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press. In Press.

Oberprieler, S, Rees, G, Nielsen, D, Shackleton, M, Watson, G, Chandler, L & Davis, J 2021, Connectivity, not short-range endemism, characterises the groundwater biota of a northern Australian karst system, Science of the total environment, 20 November, vol. 796, https://doi.org/10.1016/j.scitotenv.2021.148955

Rees, G, Oberprieler, S, Nielsen, D, Watson, G, Shackleton, M & Davis 2020, Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory, December, CSIRO, https://gisera.csiro.au/wp-content/uploads/2021/03/GISERA-Project18-Stygofauna_final-report-20201208.pdf

U.S House of Representatives Committee on Science, Space, & Technology 2022, Seeing CH4 clearly: Science-based approaches to methane monitoring in the oil and gas sector, June, A majority staff report, https://science.house.gov/imo/media/doc/science_committee_majority_staff_report_seeing_ch4_clearly.pdf

Carole Stanford
****
NSW 2786

Stannus, Mary – Thursday, 11 August 2022 – 15:01:49

Subject	No more fracking - Please
From	Mary Jane Stannus
Sent	8/11/2022 3:01:49 PM

To the Northern Territory Department of Environment, Parks and Water Services

Regarding the plan for Origin's fracking- please prevent this from happening. We need to look after our earth - land and water, for our future. Fracking is destructive. Replace fracking plans with creative and forward-thinking plans that focus on alternative and sustainable energy sources. As a government protect our lands and support, through policy and investment, forward thinking business that seek sustainable sources of energy!

Mary Jane Stannus
****
NSW 2131

Stapleton, Gwen – Thursday, 11 August 2022 – 14:54:38

Subject	Stop Origins Fracking Plans
From	Gwen Stapleton
Sent	8/11/2022 2:54:38 PM

To the Northern Territory Government Environment parks and water security. I write to you as an Australian citizen, and as a 70 year old person who has witnessed so much destruction of this beautiful country by previous government decisions driven by greed and stupidity and a total lack of consideration for our natural resources, cultural heritage and the huge issue of climate change. A decision to allow fracking in the Northern Territory of Australia would be catastrophic, irreversible and, in my opinion, criminal. I urge you to ensure that no fracking is allowed to happen now and to put legislation in place so that it is not allowed in the future. Yours sincerely, Gwendoline Stapleton

Gwen Stapleton
****
WA 6230

Stasak, Beata – Saturday, 13 August 2022 – 11:25:33

Subject	Stop Origin's Fracking Plans
From	Beata Stasak
Sent	8/13/2022 11:25:33 AM

The Northern Territory Government be aware, your Origin's plans to open twelve new fracking drills in the Northern Territory are wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Do not be one starting this path of destruction for all of us, it is a terrible legacy to live by you leave behind.

Beata Stasak

Beata Stasak
****
WA 6176

Stattin, Kristina – Saturday, 13 August 2022 – 15:32:34

Subject	STOP all fracking.
From	Kristina Stattin
Sent	8/13/2022 3:32:34 PM

Stop the wreckless fracking for the good of the planet and all living creatures. It's high time to do what you must know is right not just what is financially 'right' just now. We will all have to pay for it in the future.

Kristina Stattin
****
SA 5158

Steele, Trevor – Saturday, 13 August 2022 – 15:37:34

Subject	No to fracking
From	Trevor Steele
Sent	8/13/2022 3:37:34 PM

There is massive evidence that fracking kills people and animals, polluting the water table, and causing cancers. Please think of the people and the environment and do not yield to companies whose only goal is profit -- at any cost/

Trevor Steele
****
SA 5039

Steicke, Joylene – Sunday, 14 August 2022 – 12:45:03

Subject	Don't ruin Australia with fracking which eventually will pollute water
From	Joylene Steicke
Sent	8/14/2022 12:45:03 PM

My family does not have a lot to say about fracking anywhere, leave alone the Northern Territory, other than to say, it must be stopped at all costs as is a total ruination of our planet, the only home we have.
Please, just stop this madness!

Joylene Steicke
****
TAS 7215

Stella, Daniela – Saturday, 13 August 2022 – 07:32:24

Subject	Stop origins fracking plans
From	Daniela Stella
Sent	8/13/2022 7:32:24 AM

To the NT department of parks water and environment

Please stop origin from building any fracking plants. Please do not approve their plans to frack water in the NT.
We need to preserve the environment and the water that gives life to the animals, flora and most importantly, the people of NT.
Origin do not need to do this and must be stopped. The irreversible damage that this can do is frightening. The negative impact to the environment is too great for you to approve.
Please do the right thing and do not allow origin to frack.
Thank you
Daniela Stella

daniela stella
****
VIC 3013

Stenecker, Kathleen – Sunday, 14 August 2022 – 20:31:49

Subject	Stop Origins fracking plans for Country and Cultural Heritage
From	Kathleen Stenecker
Sent	8/14/2022 8:31:49 PM

Northern Territory Dept of Environment, Parks, and Water Security

To whom it may concern,
It is my understanding that Origin Energy Company has plans to start fracking in TWELVE new wells in the Northern Territory in the near future. I have grave concerns about this as it could potentially effect the environment and water supply in this area, thereby effecting any community that lives in this area. Not only would this fracking need a large amount of water (we are talking tons) taking away from the indigenous community water supply, it could potentially effect the overall water supply and destablize that community. Haven't we already done enough disruption to our First Nation people. I ask that you reject Origins plans for fracking in this area. As a current customer of Origin I was horrified to hear about this and am considering changing energy companies.

Sincerely,
Kathleen Stenecker

Kathleen Stenecker
****
SA 5173

Stenson, Amanda – Sunday, 14 August 2022 – 18:06:55

Subject	Stop Origin's fracking plans
From	Amanda Stenson
Sent	8/14/2022 6:06:55 PM

To:
Northern Territory Department of Environment, Parks and Water Security.

Some years ago I studied a course in Water management. I learnt that our Watersheds are such a valuable resource, we should not be taking risks or gambles with them and fracking is still not considered a safe practice, it is at best a risk.

I hope that the NT government (through your Department) is considering not just the wisdom of the Traditional Owners and other communities throughout the world who have also already rejected fracking for the same reasons, but is also thinking of the long term environmental positives that a wise decision now could herald.

Whilst it may not stop existing damage, a decision to discontinue unsafe and damaging pursuit of a limited resource such as gas may be seen as a step forward towards a more positive future where newer more exciting opportunities (eg. solar, wind) could be a collaborative effort between Government and Traditional Owners without the risk to the environment.

Please do not allow Origin to frack the Amungee Mungee pastoral station 50 km east of Daly Waters or in fact any other land in the NT, land the Traditional Owners do not want fracked. Please stop Origin from creating such potential water crises. I consider this EMP as incomplete and avoidant (it does not clarify what will be done with waste water and it does not implement recommendations from the Pepper Enquiry).

For the above reasons I request that you reject the Origin application and especially the EMP, thus respecting the Traditional Owners wishes.

Amanda Stenson

Amanda Stenson
****
ACT 2602

Stephenson, Veronica – Thursday, 11 August 2022 – 14:17:30

Subject	Please stop Origin and any other company from fracking in the NT
From	Veronica Stephenson
Sent	8/11/2022 2:17:30 PM

I was shocked to learn that the NT government is considering Origin Energy plans to frack new gas wells in the NT. It is well known that there is a very high risk of polluting the ground water from fracking.
I would like to register my strong concerns that this is too dangerous to go ahead.
Water in a dry country is essential. However with renewable energy becoming more available, gas is no longer necessary.

Veronica Stephenson
****
VIC 3220

Stetner, Douglas – Sunday, 14 August 2022 – 18:22:26

Subject	We cannot allow fossil fuel expansion, and certainly not dangerous fracking
From	Douglas Stetner
Sent	8/14/2022 6:22:26 PM

I am surprised that any one would even consider approving fossil fuel projects much less dangeous ones that involve fracking.

Do not let this go ahead.

Douglas Stetner
****
QLD 4178

Stevens, Joy – Saturday, 13 August 2022 – 15:34:13

Subject	Origins reckless fracking plans in NT
From	Joy Stevens
Sent	8/13/2022 3:34:13 PM

To the NT Government
As a resident of this country,Australia, NO Company has the right to do what ever they desire …$$$$$ driven only. Origin would destroy our country, our water , our climate. If Origin gets their way , shame on the NT Government. This would certainly open up a Pandora's Box for other fracking companies to do the same. The NT Government needs to show a 'SPINE' to the people of Australia.
STAND UP TO THESE CORPORATE BULLIES.
DON'T FORGET YOU ARE BEING PAID BY THE PEOPLE OF THIS COUNTRY TO HELP MANAGE AUSTRALIA RESPONSIBLY.

Joy Stevens
****
QLD 4557

Stevens, Sarah – Saturday, 13 August 2022 – 14:58:21

Subject	I do not support Origin Enervy fracking in the NT or anywhere.
From	Sarah Stevens
Sent	8/13/2022 2:58:21 PM

I have lived and worked in many rural and remote places across our beautiful and special country. I am horrified that government at all levels are so beholden to big companies that they happily allow them to wreak absolute havoc on our most precious environments in the name of profit and power, damn the consequences to natural resources and the communities they are supposed to be serving.
Fracking is one of the most heinous of environmental disasters posing unacceptable risk to country, water, and climate.
It is downright irresponsible and arrogant of the NT government to allow 430 million litres of water to drill and frack the twelve wells in Origin' proposal. Moreover, the sheer hypocrisy of trucking 90 million litres of wastewater interstate is disgusting. Where interstate? Are the communities on the recieving end of this waste water aware of the part their country will pay in this disgusting play of greed and environmental crime?
I suggest the NT government get with the times. Australians don't want our beautiful landscapes trashed by big companies who treat everyone and everything like pawns they can play to line their own pockets.
I am completely against this proposal.
Regards
Sarah

Sarah Stevens
****
SA 5433

Stevenson, Darryl – Friday, 12 August 2022 – 16:25:21

Subject	Stop All Gas Fracking
From	Darryl Stevenson
Sent	8/12/2022 4:25:21 PM

Northern Territory Dept of Environment, Parks and Water Security

As an Australian I am horrified that gas fracking is allowed in our country that the driest continent in the world and need to ensure our precious ground water is never contaminated.

The Great Artesian Basin is an enormous asset and was astounded to discover how large it is.

Fracking involves pushing contaminating fluids deep into the earth so you don't need to be a scientist to know if the risks involved and all
know water finds the lowest level.
We also know burning gas is also exasperating the climate change emergency.
All this risk when we already are the largest exporters of gas in the world.
To allow gas fracking is simply acting irresponsibly and I appeal that common sense prevail.
The short term gain will be lost alone through climate change disasters.

Your truly
Darryl Stevenson
Apt 345 Red Cowrie
Coral Coast Dr
Palm cove. Qld. 4879

Darryl Stevenson
****
NSW 2283

Stever, Bernie – Saturday, 13 August 2022 – 07:44:43

Subject	No new fracking in NT
From	Bernie Stever
Sent	8/13/2022 7:44:43 AM

The weight of evidence/facts available around climate change and fossil fuels is well known, obvious and accepted by a large majority of citizens, experts and employers.

What is also well known, and obvious, in the NT is the appalling rehabilitation record of the mining/resources sector generally. Jabiru and Rum Jungle leap to mind. As does Woodside and it's reticence to remove old oil/gas rigs, preferring instead to dump them where possible or constructive liability transfer by selling those old assets to smaller unfounded companies. Often for a nominal amount.

The cost to the environment, agricultural sector, indigenous communities, general population, tourism and of course future generations is incalculable. Certainly not worth the risk/danger it poses.

No doubt during construction there's work available, however after that's finished, ongoing work is typically minimal or quite specialist relying on external contractors etc. The employment argument is a red herring.

Ultimately thought this issue is one of lucre. If that's so important, to the exclusion of everything else, that in itself is appalling. Overall better performance could be obtained by renewables such as solar farms and wind plants. These do provide a range of long term employment opportunities for locals, are generally harmless to the environment (compared to oil/gas)
and also generate local technology industries.

Other than short term profit/political benefits what is the justification? I fear that stranded assets will ultimately be left behind and be reliant on government to address. As has been done before. There is no holistic upside to this project. But it does serve the needs of a specific narrow group who have access and influence to decision makers. That doesn't make it right though.

Bernie Stever
****
NSW 2753

Stewart, Iain – Monday, 15 August 2022 – 16:19:05

Subject	Rejection of Origin's EMP for fracking wells on Amungee Mungee station
From	Iain Stewart
Sent	8/15/2022 4:19:05 PM

The distance between my home and the NT does not diminish my anger at Origin Energy's plan to establish 12 new fracking sites in the Daly Waters area. My anger is fueled by my understanding the local indigenous people are opposed to Origin's proposal and they have formally articulated their concerns.

But traditional owners are not the only persons who have cause for alarm. We all have an interest in protecting the environment. Sometimes the science can be bewildering for a non-expert, but even I can grasp the potential catastrophe that awaits by raiding the water table coupled with the creation of large volumes of waste water.

Proponent's invariably understate the impact of their actions and equally invariable is the post-event discovery of the excessive costs of remediation and either a resistance to or inability to return sites to the previous condition.

Equally problematic is the incapacity of the appropriate regulatory body to oversee that undertakings are satisfied.

I understand that a moratorium has existed on fracking in the Territory and that no requests would be considered until all the recommendations of a previous inquiry had been implemented. I understand that has not concurred. Respectfully, I ask you reject Origin's Environmental Management Plan. Plainly the risks involved far exceed the benefits that may flow to territorians should the Plan be approved.

Yours

Iain Stewart
Anderson Street, South Melbourne 3205

Iain Stewart
****
VIC 3205

Stewart, Joanna – Sunday, 14 August 2022 – 14:29:47

Subject	No new Origin fracking mines in NT!!
From	Joanna Stewart
Sent	8/14/2022 2:29:47 PM

Dear Northern Territory Government,
Do not allow Origin to further pollute our precious water resources with fracking!!
Joanna Stewart

Joanna Stewart
****
VIC 3206

Stewart, Michael – Saturday, 13 August 2022 – 15:27:10

Subject	stop origins fracking plans
From	Michael Stewart
Sent	8/13/2022 3:27:10 PM

**********. Stop this obscene financial gamble with scarce water resources, possibly to be lost for generations to satisfy short term financial speculation. I am sure resentment towards decision making leaders shall last far longer than benefits to absent speculators. Michael Stewart.

michael stewart
****
NSW 2577

Stewart, Stephanie – Friday, 12 August 2022 – 14:33:56

Subject	Please! Stop your destruction!
From	Stephanie Stewart
Sent	8/12/2022 2:33:56 PM

Fracking is proven destruction.
Bribing farmers and First Nations peoples and taking advantage of them with lies and money is EVIL.
Stop crippling people and planet.

Stephanie stewart

Stephanie Stewart
****
SA 5091

Stewart-Henderson, Debbie – Friday, 12 August 2022 – 11:09:16

Subject	Stop Origin fracking
From	Debbie Stewart-Henderson
Sent	8/12/2022 11:09:16 AM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Please protect our environment.

Debbie Stewart-Henderson
****
NSW 2534

Stickman, Maureen – Friday, 12 August 2022 – 14:27:11

Subject	maushine@bigpond.com
From	Maureen Stickman
Sent	8/12/2022 2:27:11 PM

There is no OSTRALIA anymore, it's already destroyed and am thankful I am at the end of time on earth. Corrupt, greedy government that's all.

maureen stickman
****
WA 6155

Stiller, Glynn – Friday, 12 August 2022 – 16:17:57

Subject	Stop Origin's Fracking Plans
From	Glynn Stiller
Sent	8/12/2022 4:17:57 PM

I address this submission to the Northern Territory Department of Environment, Parks and Water Security.

My name is Glynn Stiller and I live in Bowral, NSW. While I am not a resident of the Northern Territory (NT), I am a resident of Australia, and as such am extremely concerned about Origin's plans to conduct fracking in the NT. This submission is against any plans for fracking in the NT, either by Origin or any other company.

The whole idea of 'exploratory fracking wells' is an anathema to me as twelve new exploration wells will be a risk to the underground water supplies in the country. If gas is found, there will undoubtedly be the request to extract this gas. That will mean further degradation and diminution of the underground water supplies, further damage to the country, and an increase in gasses that cause global warming.

The NT is a dry country. Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. This does not take into account the 90 million litres of wastewater which they are planning to truck interstate. What will happen to this polluted water? This aspect of pollution is unacceptable as is the amount of CO2 which will be released into the atmosphere because of this exercise.

The resultant climate change effects of both the proposed exploratory wells and any production wells that are consequent to the exploratory wells will increase their carbon footprint with millions of tonnes of emissions. Considering the current problems we have with climate change, on this ground alone the wells should not be allowed to be drilled.

Origin have not implemented all the recommendations from the Pepper Inquiry. This will mean that the rights and beliefs of our Traditional Owners will once again be trampled on. Their social, cultural and economic beliefs must be fully taken into account. The point that the Traditional Owners do not want Origin fracking on their land because of the risks to water, country and cultural heritage should be more important than the profits of Origin.

For the above reasons, I demand that the Department reject Origin's proposal to drill 'exploratory' fracking wells in the NT.

Glynn Stiller

Glynn Stiller
****
NSW 2576

Stirling, Beryl – Saturday, 13 August 2022 – 15:50:49

Subject	End fracking NOW!
From	Beryl Stirling
Sent	8/13/2022 3:50:49 PM

For 50,000 years the aboriginal Australians nurtured their environment. In less than three hundred years we have already done irreparable damage to this amazingly beautiful continent. Fracking is the last straw. Stop it now and work to conserve, not just Australia but indeed our planet while there is still time.

Beryl Stirling
****
NSW 2264

Stodart, John – Friday, 12 August 2022 – 14:11:08

Subject	Please cease fracking!
From	John Stodart
Sent	8/12/2022 2:11:08 PM

Methane is a harmful greenhouse gas.
One does need to be a mental giant for it to become obvious that this method of extraction likely to allow gas to intrude into water repositories.
It is also likely to create paths to the surface and to the atmosphere in a manner that is not easy to monitor.
Please cease fracking!
Thank you,
John Stodart

John Stodart
****
WA 6010

Stomann, Katrina – Friday, 12 August 2022 – 12:28:48

Subject	Stop Origin's plans to frack the NT.
From	Katrina Stomann
Sent	8/12/2022 12:28:48 PM

I would like to express my opposition to Origin Energy's plans to open twelve new fracking drills in the NT. These drills would destroy country, damage water reserves, and lead to further damaging emissions for our climate. They would also set a precedent to other fracking corporations. Traditional owners wish to protect their country for future generations, as Australians we should all be protecting our country. We know that the time has come to stop creating new fossil fuel projects, and instead commit to renewable energy sources. Overseas countries, including the USA, are now aware of the irreparable damage caused by fracking, and advise us to avoid it. Why would we even consider allowing new fracking drills in the face of the contrary evidence, and against the wishes of traditional owners?

katrina stomann
****
NSW 2060

Stott, Paul – Thursday, 11 August 2022 – 18:28:02

Subject	Stop Origin fracking traditional lands
From	Paul Stott
Sent	8/11/2022 6:28:02 PM

Don’t frack traditional lands. Listen to the traditional owners. Don’t put money & greed ahead of the traditional people’s sacred sites & traditional lands. Haven’t the traditional peoples given enough, don’t just cast them aside for profits. There are other ways.

Paul Stott
****
QLD 4740

Streatfeild, Michael – Friday, 12 August 2022 – 20:23:35

Subject	Stop Origin's New CSG Fields
From	Michael Streatfeild
Sent	8/12/2022 8:23:35 PM

I oppose Origin's application to drill and frack a whopping twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters. The gas field will become more intense if it proceeds to the production phase and we cannot afford new gas projects if we hope to keep below 2 degrees global warming. We need our governments to actively reduce our carbon emissions now!

Michael Streatfeild
****
NSW 2171

Street, Ross – Friday, 12 August 2022 – 17:06:55

Subject	Forbid fracking by Origin!
From	Ross Street
Sent	8/12/2022 5:06:55 PM

As clean water is becoming scarcer and scarcer, how can a responsible government agree to the risking of this precious resource by allowing fracking? It must be made clear to all companies planning to frack that the government position is firmly that it will not be allowed.

Ross Street
****
NSW 2074

Strickland, Clare – Sunday, 14 August 2022 – 17:30:49

Subject	Stop Origin's fracking plans
From	Clare Strickland
Sent	8/14/2022 5:30:49 PM

Origin must not frack any more in the NT.
In this day of efficient and affordable renewable energy, fracking makes no sense.
We are now accountable for our emissions, and cannot afford to heat up our planet.

Clare Strickland
****
NSW 2101

Strobel, Sunny – Saturday, 13 August 2022 – 20:36:58

Subject	NT Reckless Fracking Plans
From	Sunny Strobel
Sent	8/13/2022 8:36:58 PM

What a slap in the face of our Original Owners THIS would mean- and THE WORLD's SHAMING the NT Government will follow , condemning Origin's totally greedy , unethical, evil Corporate mismanagement intent- that's YOU !

sunny strobel
****
WA 6010

Stronach, Lee – Saturday, 13 August 2022 – 07:42:19

Subject	Stop origins fracking plans
From	Lee Stronach
Sent	8/13/2022 7:42:19 AM

You have no right or permission to destroy land and planet through greed and money.
Stop fracking!!!!

Lee Stronach
****
WA 6156

Stubley, Lois – Sunday, 14 August 2022 – 17:08:42

Subject	Stop Origin's Fracking Plans
From	Lois Stubley
Sent	8/14/2022 5:08:42 PM

Attention: Northern Territory Department of Environment, Parks and Water Security.
My name is Lois Stubley; I worry about the future of our country and what my grandchildren and their children will be facing in the future. Our climate is already under such stress, we must do all we can to avoid more damage.
It concerns me that Origin is pushing for 12 new fracking drills, thereby destroying the environment, water, cultural heritage and the climate. It is well known now that fracking is very bad for the environment. Let Origin do it and others will want to follow.
Please listen to our Traditional Owners; don't let this happen.
Regards,
Lois Stubley.

Lois Stubley
****
VIC 3099

Sturmey, Helen – Saturday, 13 August 2022 – 22:00:52

Subject	Please reject all of Origin energy's plans to drill, explore, exploit, frack and destroy Australia's and the First People's land, environment, heritage, culture and identity
From	Helen Sturmey
Sent	8/13/2022 10:00:52 PM

Origin's plans for fracking in the N.T. are contrary to what the people of Australia want, you can see this in the last Federal election results. People voted to protect and preserve the land Australia and said "no!" to exploitation of fossil fuels as it's mining and burning causes the rise in greenhouse gases and the warming of the planet. We cannot continue to use fossil fuels. Our natural environment is far too precious and what Origin energy proposes is a travesty. Do not allow them to exploit, drill and frack in our precious N.T.

Helen Sturmey
****
QLD 4850

Sulayman, Sebaedin – Friday, 12 August 2022 – 14:33:53

Subject	Stop
From	Sebaedin Sulayman
Sent	8/12/2022 2:33:53 PM

Stop

Sebaedin Sulayman
****
VIC 3076

Sullivan, Maryn – Friday, 12 August 2022 – 16:56:13

Subject	Stop Origin Fracking NT
From	Maryn Sullivan
Sent	8/12/2022 4:56:13 PM

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
STOP THE FRACK

Maryn Sullivan
****
NSW 2486

Sullivan, Tony – Saturday, 13 August 2022 – 15:07:18

Subject	Origin's fracking plans will destroy our environment
From	Tony Sullivan
Sent	8/13/2022 3:07:18 PM

Northern Territory department of Environment
I urge your government to put an end to plans by Origin Energy to frack fragile country in the NT. Not only will this activity destroy underground water resources for ever, it will add to an already warming climate by adding further emissions to our atmosphere. As a government you have a duty of care to protect our environment from harmful activities such as fracking for gas. It has been proven in other countries that this activity is environmental vandalism. You also have a duty of care to our young people and their future health. How can the government justify approval of plans which are detrimental to our environment and population health. Profits from this enterprise will be taken offshore and will benefit a small few individuals but will be catastrophic for the majority. I urge the government to stop all approvals for future fracking.

Tony Sullivan
****
VIC 3709

Sunstrom, Geoff – Sunday, 14 August 2022 – 21:34:48

Subject	Please stop Origin's fracking plans
From	Geoff Sunstrom
Sent	8/14/2022 9:34:48 PM

Department of Environment, Parks and Water Security

Please reject Origin's submissions - the climate impacts would be monumental and Aboriginal communities will be affected not only their lands but also the huge amounts of water to frack will affect the remote Aboriginal communities that rely on this water.

Yours sincerely,

Geoff Sunstrom
****
SA 5009

Sutherland, Kerry – Friday, 12 August 2022 – 16:13:12

Subject	kesdoc@hotmail.com
From	Kerry Sutherland
Sent	8/12/2022 4:13:12 PM

The Northern Territory has very fragile ecosystems so any gas or mining exploration has a disproportionate impact on the areas.
Please stop harming nature and stop all fracking.

Kerry Sutherland
****
NSW 2209

Sutton, Colin – Thursday, 11 August 2022 – 12:23:11

Subject	Fracking is a bad idea
From	Colin Sutton
Sent	8/11/2022 12:23:11 PM

Origin's plan to frack should not be permitted. Apart from the risk to water supplies, we cannot afford to release any more CO2 into the atmosphere.

Colin Sutton
****
NSW 2042

Suttor, Anthony – Friday, 12 August 2022 – 16:40:51

Subject	Origins fracking plans
From	Anthony Suttor
Sent	8/12/2022 4:40:51 PM

Please stop Origin energy from damaging our ecosystems with dangerous fracking. The effects of climate changeare really obvious now and fracking will just add to the total of harmful emissions.

Yours sincerely,

Anthony Suttor
31 Maurice Terrace, Bakewell NT 0832

Anthony Suttor
****
NT 0832

Swain, Colin – Sunday, 14 August 2022 – 14:52:41

Subject	Stop Origin Energy's Fracking Plans In The Northern Territory
From	Colin Swain
Sent	8/14/2022 2:52:41 PM

I write to you as a concerned citizen, who is appalled at Origin Energy's plan to open 12 new fracking drills, in the Northern Territory.
Fracking drilling for LPG is both damaging to the land and the water table and is the height of irresponsibility, with the proven damage to the climate, the use of these non-renewable energy sources, are.
It sets a precedent for other rapacious mining companies to follow, and it sets a bad example to the global community, in these times of proven climate change science and global efforts to arrest climate change.
The Northern Territory Government, have the opportunity, to set an example, for all other Government's to follow.
The Northern Territory Government have the opportunity to leave a legacy of responsibility, for all other Government's to follow and for taking a stand to arrest climate change.

Colin Swain
****
NSW 2257

Swan, Angela – Monday, 15 August 2022 – 19:18:38

Subject	No to Origins Fracking Wells
From	Angela Swan
Sent	8/15/2022 7:18:38 PM

To the Northern Territories Department of Environment, Parks and Water Security. I am completely opposed to Origins plan to frack the Northern Territory, because we are in a Climate Emergency and need to be stopping all fossil fuels and only supporting renewables. Fracking in the Northern Territory on Aboriginal land at the Amungee Mungee station will use up 430 million litres from precious ground water. The fracking process will poison the groundwater that Aboriginal people and cattle and plants rely on to survive. The fracking will produce 535,651 tons of greenhouse gas and 90 million liters of contaminated waste water. Why on earth would anyone support this? The Aboriginal owners of this land have opposed this from the start. Please reject Origins Environment Management plan and start supporting the production of renewable energy. Thanks for listening Angela Swan

Angela Swan
****
SA 5167

Swan, Charlotte – Saturday, 13 August 2022 – 21:15:03

Subject	Futures
From	Charlotte Swan
Sent	8/13/2022 9:15:03 PM

Grow a brain and realise the amount of destruction YOU are allowing. Our children's children have NO future to look forward to thanks to you and the NO GOOD GOVERNMENTS! AND to ignore our dear Aboriginal Elder's is beyond me!

Charlotte Swan
****
NSW 2409

Swan, Helen – Friday, 12 August 2022 – 13:40:10

Subject	Stop Origin Energy now!
From	Helen Swan
Sent	8/12/2022 1:40:10 PM

They cannot be allowed to destroy Aboriginal land in the NT. You must stop this fracking exercise. You will allow them to ruin the water supply and further destroy our country. Origin is about GREED !! Do not be part of this. You are better than that. Or should be. You will make many people angry, more people poor and cause death to our Flora and fauna. You have no right to do this.

Helen Swan
****
NSW 2820

Swan, Marj – Saturday, 13 August 2022 – 19:50:04

Subject	Stop Origin's Fracking Plans
From	Marj Swan
Sent	8/13/2022 7:50:04 PM

To: Northern Territory Department of Environment,Parks and Water Security:
I would like to take this opportunity to submit my strong objection to the proposed plans by Origin for 12 new fracking drills in NT. Hydraulic fracturing can cause leakage of methane, impacting on the environment, contaminating the ground water, surface water, air pollution and seismic activity. Fracking also requires the use of huge amounts of our precious water. Because of the threats such a project places on our environment and our cultural heritage I respectively urge you to please withdraw this proposal immediately.
Marj Swan

Marj Swan
****
VIC 3977

Swan, Yolande – Thursday, 11 August 2022 – 19:38:59

Subject	Stop Origin's Fracking plans
From	Yolande Swan
Sent	8/11/2022 7:38:59 PM

The Traditional Owners of our Country demand that Fracking not be allowed to go ahead. Please stop this madness and listen to the people who have looked after this Country and managed it without greed and with respect for the environment and climate.

Yolande Swan
****
NSW 2487

Swatman, James – Friday, 12 August 2022 – 07:05:09

Subject	Stop Origin's fracking plans
From	James Swatman
Sent	8/12/2022 7:05:09 AM

Dear Sirs
Northern Territory Department of Environment and Water Security
I wish to express my concern and disappointment that you are considering approval of such a commercial proposal which will jeopardise the security of water in this area.
My request is that you refuse this application

Thanks
James Swatman

James Swatman
****
NSW 2486

Sweeney, Kevin – Saturday, 13 August 2022 – 11:30:17

Subject	Fracking in the NT by Origin
From	Kevin Sweeney
Sent	8/13/2022 11:30:17 AM

Northern Territory Department of Environment, Parks and Water Security

Dear Sir/Madam,

The proposed fracking for gas by Origin in the NT should not be allowed to proceed.

The proposal is opposed by the traditional owners of the land. The fracking would have serious impacts on cultural heritage and water security and will cause significant pollution from the fracking chemicals.

Fracking results in large amounts of fugitive emissions of methane which is a potent greenhouse gas. The gas industry under-reports and downplays the amount and significant of these emissions. When taken into account, gas mining and usage produces just as much greenhouse emissions as coal mining and usage.

The opening of new coal and gas fields will increase the amount of greenhouse gas emissions and is completely incompatible with achieving net zero by 2050, and incompatible with achieving the Paris agreement target of limiting global warming to near 1.5C.

This proposal should be rejected in its entirety.

Kevin Sweeney
****
NSW 2303

Symons, Chris – Thursday, 11 August 2022 – 16:02:20

Subject	Stop Origin's Fracking Plans
From	Chris Symons
Sent	8/11/2022 4:02:20 PM

Northern Territory Department of Parks and Water Security.
Please listen to the Traditional Owners of the land upon which Origin wishes to extract gas via fracking. Where they are clearly and unanimously saying no to this process, please respect this and say "no" to Origin
Yours sincerely
Chris Symons

Chris Symons
****
NSW 2538

Szafraniec, Barbara – Friday, 12 August 2022 – 15:14:11

Subject	Stop fracking plans
From	Barbara Szafraniec
Sent	8/12/2022 3:14:11 PM

I strongly support the tradition peoples' request to stop any fracking in the Northern territory. I believe it would be an irreversible environment disaster. We must protect our land and the environment for future generations.

Barbara Szafraniec
****
VIC 3130

Szlavek, Lilo – Saturday, 13 August 2022 – 15:08:15

Subject	Origin's fracking plans in the Northern territory
From	Lilo Szlavek
Sent	8/13/2022 3:08:15 PM

To the Northern Territory department of Environment and water,
I have noted with concern that you are contemplation to let Origin drill a number of gas wells in your area. This is preposterous. The damage to our environment and water resources will be irrepair-able. Please put the well-being of the people of this country before the profits of a multinational corporation. DO NOT DO It !!!
with regards Dr. Lilo Szlavek

Lilo Szlavek
****
NSW 2350

Szymicek, Andrew – Thursday, 11 August 2022 – 17:40:16

Subject	Origin's fracking must be stopped
From	Andrew Szymicek
Sent	8/11/2022 5:40:16 PM

Fracking polutes underground water courses with the chemicals used. Origin's plans must not be approved. Australia needs to turn to reneeables not fracking. Please look to the future not the dirty, climate destroying past.

Andrew Szymicek
****
VIC 3000

T, Paula – Friday, 12 August 2022 – 14:11:22

Subject	Please Stop Origin's Reckless Fracking Plans.
From	Paula T
Sent	8/12/2022 2:11:22 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to Traditional Owners and the communities around the country united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

Please Stop Origin's Reckless Fracking Plans in the NT.

Thank You

Paula T
****
NSW 2558

Tabart, Tom – Sunday, 14 August 2022 – 14:54:49

Subject	Stop Origin and all the rest
From	Tom Tabart
Sent	8/14/2022 2:54:49 PM

This term of parliament is very likely the last where effective action will be possible. Th tipping points of global warming are well upon us and attempting to make inroads using a 'business as normal' approach is not a viable possibility - no time. Decisive action needs to happen NOW! even if it damages you at the next election - it probably won't.

Tom Tabart
****
NSW 2479

Taffe, Ellison – Saturday, 13 August 2022 – 09:38:36

Subject	Stop origin’s fracking plans in N.T. now!
From	Ellison Taffe
Sent	8/13/2022 9:38:36 AM

Must stop dangerous fracking now!

Ellison Taffe
****
VIC 3340

Taffel, Bob – Friday, 12 August 2022 – 17:01:21

Subject	Objection to Origin's Fracking Proposal
From	Bob Taffel
Sent	8/12/2022 5:01:21 PM

As a retired engineer I wish to object to Origin's plans to establish gas fracking operations in the Northern Territory. Apart from the Scope 3 implications of what is planned by Origin, the effects of what is proposed on the supply and quality of the natural water table in the areas under consideration are enough for the N.T. Government to immediately outlaw any fracking for natural gas in the region.

Bob Taffel
****
NSW 2064

Tanner, Ian – Friday, 12 August 2022 – 19:22:51

Subject	Stop Origin Energy's fracking plans.
From	Ian Tanner
Sent	8/12/2022 7:22:51 PM

Minister for Mines Northern Territory
Please insist that Origin Energy be banned from fracking to obtain gas. Fracking evidence is clear that water aquifers get contaminated and cannot be uncontaminated. Intensive drilling for perhaps 20 years and then despoiled land for ever. It is unhealthy and must not be encouraged. Salt bi products of fracking to be avoided. SAY NO TO FRACKING

Ian Tanner
****
NSW 2067

Tanner, Nigel – Saturday, 13 August 2022 – 17:43:01

Subject	Please do not allow Origin to destroy/frack the homeland of Australians for many thousands of years
From	Nigel Tanner
Sent	8/13/2022 5:43:01 PM

To the authorities of the Northern Territory Department of Environment, Parks and Water Security

Please preserve the homelands of the indigenous people of Northern Territory. Community is more important than fuel.

Nigel Tanner
****
NSW 2032

Tardy, Paula – Monday, 15 August 2022 – 08:12:52

Subject	NO FRACKING
From	Paula Tardy
Sent	8/15/2022 8:12:52 AM

Fracking is Toxic Capitalism at work - Money over and above Everything else - Greed, Greed, Greed!!!

Fracking is the most Insane concept ever devised. Look at the serious damage it has caused in other countries, to other people.

It must stop BEFORE the damage is done, not After!!!!!!

The NT Government must stop this process from Ever Happening in Australia.

I am deeply, deeply disgusted and Angry!!

Just STOP the Lunacy!! Protect Australia and Australians!!

Paula :{

Paula Tardy
****
NSW 2027

Taylor, Andrew – Friday, 12 August 2022 – 15:37:05

Subject	Origin"
From	Andrew Taylor
Sent	8/12/2022 3:37:05 PM

I have been a grazier for 60+ years and know only too well the value of an underground water supply.
To start fracking in this area, without a very thorough knowledge of its geology, would be the height of stupidity.
Andrew Taylor, Nairne, S. Aust.

Andrew Taylor
****
SA 5252

TAYLOR, Helen – Friday, 12 August 2022 – 23:27:57

Subject	Why Origin's fracking plan must be rejected
From	Helen TAYLOR
Sent	8/12/2022 11:27:57 PM

I used to live in Lancashire, UK in an area in which fracking was allowed for a while. It caused an earthquake which caused extensive damage to people's homes, for very little gain to either the company or the economy of the area. Fracking to release fossil fuels from underground is as damaging to the environment as the ongoing use of any other fossil fuel at a time when we urgently need to reduce and ultimately stop using ALL fossil fuels because burning them creates emissions that contribute to global warming. To continue to approve new projects that contribute to global emissions is robbing future generations of the lifestyle we enjoy today. Morally, nobody has the right to do that.
Sincerely
Helen Taylor.

Helen TAYLOR
****
NSW 2283

Taylor, Jane – Thursday, 11 August 2022 – 15:32:37

Subject	No fracking in NT: No to 12 new gas wells
From	Jane Taylor
Sent	8/11/2022 3:32:37 PM

Dept of NT
Environment

From Jane Taylor & J. Keski-Nummi

Our daughter worked at Tenant Creek High School for four years so got to travel extensively in the NT.
We saw the land in drought.
We swam at Matarranka.
We swam in many Greatv Artesian Basin water holes.

The NT is precious to us.
Don't allow any damage to the land and water and therefore do not allow fracking.
Say NO to Origin!!

Listen to the people.

Sincerely
Jane Taylor & Jim Keski-Nummi
Coledale NSW 2515

jane taylor
****
NSW 2515

Taylor, Janet – Saturday, 13 August 2022 – 17:11:07

Subject	NO FRACKING ANYWHERE IN AUSTRALIA, please!
From	Janet Taylor
Sent	8/13/2022 5:11:07 PM

I simply CANNOT BELIEVE that fracking is carried out anywhere at all in this country (or any country) when we know the damage that it causes.
Origin is most definitely thinking of its profits and to hell with the people who have to live with the damage after the event.

When Origin has moved on, we are the ones left to pick up the tab for the damage caused and no amount of money will ever be enough.

Please, STOP THIS FRACKING NIGHTMARE NOW!!!

Janet Taylor
****
NSW 2223

Taylor, Kay – Friday, 12 August 2022 – 15:52:18

Subject	Stop Fracking
From	Kay Taylor
Sent	8/12/2022 3:52:18 PM

Please do not allow fracking to take place in the NT. It will destroy country and priceless cultural heritage.

Kay Taylor
****
VIC 3004

Taylor, Louise – Monday, 15 August 2022 – 08:35:26

Subject	Climate emergency now
From	Louise Taylor
Sent	8/15/2022 8:35:26 AM

To The NT Department of the Environment, Parks and Water:

I urge you to listen to the First Nations and other persons residing in Australia, like myself, to not permit Origin to frack. Water is life and fracking uses and pollutes a lot of water.

In addition, the climate and biodiversity crises require us all to cease doing business as usual. Fossil fuels must stay in the ground.

Reconciliation with First Nations is not possible when their needs and desires continue to be ignored: heed their call to not frack their lands.

Do the right thing for younger and future generations. People and nature over profits.

Louise Taylor
****
NSW 2449

Taylor, Mark – Saturday, 13 August 2022 – 15:40:27

Subject	Stop Origin's Fracking Plans
From	Mark Taylor
Sent	8/13/2022 3:40:27 PM

I write as a geologist with over thirty year's experience in the petroleum geology, waste management and pollution control industries.

I am firmly opposed to the development of new oil and gas resources, as we need to retreat from fossil fuels if we are to have any hope whatsoever of meeting our Paris Climate Targets.

Furthermore the fracking of gas wells is strongly opposed by the traditional owners on whose land these developments are planned.

Please do not approve or support the development of more fossil fuels in the NT.

Mark Taylor
****
QLD 4059

Taylor, Patti – Thursday, 11 August 2022 – 19:22:38

Subject	Stop! Please!
From	Patti Taylor
Sent	8/11/2022 7:22:38 PM

It is beyond my ability to comprehend why, after we have witnessed first hand the havoc, destruction and despair caused by climate change, this action is being considered.
Furthermore, the destruction of Aboriginal lands simply to satisfy the greedy few is yet another spit in the face of a People who have lost and suffered enough and who have the wisdom and the knowledge to assist in saving our world from further abuse.
If you do not care about them, if you do not care about me, then perhaps look into the eyes of your own and reflect upon the dystopian nightmare that will be theirs to endure if we do not stop the madness of this planet's destruction.
Governments need to be mobilising with the urgency of war preparation and the goal of fighting back a climate catastrophe that has already taken the upper hand ….. NOT the opening of twelve fracking drills.
Thank you.

Patti Taylor
****
NSW 2782

Taylor, Shona – Monday, 15 August 2022 – 08:17:08

Subject	Submission for Origin Energy 12 wells EMP
From	Shona Taylor
Sent	8/15/2022 8:17:08 AM

Dear Hon Environmental Minister Lauren Moss,

My name is Shona Forsberg. I'm a mother of two young children, and we live in Katherine. As a mother, I am deeply concerned about the future my children will grow up in and the challenges we all face with regards to climate change, water security, increasing heat stress and the degradation and destruction of the land we love. Thus I am writing to you to share my concerns with Orgin's Amungee NW Delineation EMP, and to implore that you refuse this EMP and refer it to the EPA.

The main concerns I have with this particular EMP being approved is that it allows for Origin to move to production of gas even though they only have a license for exploration, that even more greenhouse gas emissions will be released, that too much water will be used for drilling and fracking and that our already threatened and endangered species will be put at risk in the proposed area.

Firstly, the EMP proposes that Origin wish to keep 12 wells open for 730 days, which is over 5 times that required to explore for gas. Origin does not have a license for production, only exploration. Yet with this EMP, Origin will sell the gas from these 12 wells to the Macarthur River Mine. Your government has made commitments to the people of the NT that gas production will not go ahead until a scientific baseline of the region is complete (SREBA), and until water allocation plans are in place. By approving this EMP and essentially allowing for a company to produce and sell gas without a production license, the government is setting up a terrible precedent and undermining the integrity of its own regulatory system. Is it even legal to produce and sell gas with only an exploratory license?

Secondly, this proposal states that ********* tonnes of direct, scope 1 greenhouse gas emissions will be released. That's more greenhouse gas emissions than the entire town of Alice Springs releases in a year!! And to top it off, this EMP does not even consider Scope 3 emissions! In this day and age, with all the research and knowledge we have regarding climate change, it just blows my mind that we are even contemplating opening up new gas. We need to stop greenhouse gas emissions in its tracks if we even want a chance at a habitable and prosperous environment for our kids to grow up in. There is already evidence of climate change in the NT. Salt water levels are rising and creeping into the wetlands of Kakadu, killing off the natural vegetation and the fauna that live in it. By 2050, the CSRIO predicts that 50% of Kakadu's wetlands will be submerged in saltwater. 1000's of kilometres of mangroves are dead or dying in the Gulf of Carpenteria due to increases in temperature and decreases in rainfall. This will have implications to our fishing industries as a number of fish and crustacean species larvae rely on the mangrove ecosystem. In Katherine, the number of

extremely hot days above 40 degrees are on the rise, and predicted to increase from 7 to 43 days a year by 2050, sadly making Katherine a less habitable town. This is now; climate change is here. We can not afford to release more greenhouse gas emissions into the atmosphere, and yet this EMP will allow for over 2 million tonnes of CO2 when you also consider Scope 3 emissions, if approved.

Thirdly, the EMP states that 430 million litres of water will be taken from the Gum Ridge Formation. Origin only have a license to take 175 million litres of water a year until 2024. I think allowing them to take so much more water under this EMP will have disastrous consequences, especially considering the Georgina Basin relies on flood events to properly recharge its aquifer storage. In the last 4 years our area has had below average rainfall for three of those wet seasons. This means that the Georgina Basin has had only one opportunity in the last four years to effectively recharge. And who knows what the future holds? With climate change on our doorstep it is a very likely scenario that with each coming year we will have less rainfall, which means less recharge into the Georgina Basin which means less water for the Roper River which supports much of our life in the NT! Giving away 430 million litres of water to produce more CO2 in a time of climate instability just seems like an unfathomable idea. And this is not all the water that will be necessary. Currently, a new water license application has been put forward to the government for water for a sand mine. This sand from the mind will be used by fracking companies, and so, ultimately Origin, under this EMP, will be using much more of our groundwater than is stated in this EMP. Water is a finite resource, and this madness needs to stop. Please.

Finally, this EMP does not adequately consider the risk it imposes to threatened species. The proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species are potentially present. It is incredibly sad to think that even after Tanya Plibersek delivered the State of the Environment report which clearly stated just how poor and deteriorated our natural habitats are, especially those in the NT, that we would even consider further destruction of habitat and a willingness to destroy our beautiful biodiversity! And below ground, this EMP does not consider newly discovered stygofauna. The EMP does not include any measures for monitoring or protecting the stygofauna in our aquifers. These stygofauna play an important role in filtering and keeping the water in our aquifers clean and potable.

Because of the above concerns, I call on you as the minister to please refuse this EMP. Refuse Origin’s plans to sidestep regulations and produce gas without a correct license, refuse committing to releasing more greenhouse gas emissions into our atmosphere, refuse risking water flow of the Roper River and contamination of potable water, and stand up for our environment, its habitats and threatened species. Please refer this entire EMP to the EPA for a full and thorough assessment given the significant environmental impacts it will have.

Kind Regards,

Shona Forsberg

Katherine, NT

********** <mailto:**********>

****

Taylor, Thomas – Friday, 12 August 2022 – 08:55:59

Subject	te.jay.te@gmail.com
From	Thomas Taylor
Sent	8/12/2022 8:55:59 AM

To whom it may concern,

As an origin customer and person who loves our country, it natural habitats and culture I would like to strongly request that proposed new mining venture does not go ahead.

As a consumer I would much prefer to have my energy bills go up because of heavy investment in clean and renewable energy projects that improve the quality of life and environment in the future as apposed to what is cheap now. As an Australian I haven't seen any value in the fact that Australia produces some of the most gas in the world. All is subject to market forces and we still had to pay market prices new fracking doesn't lead to better out comes for us.

Regards

Thomas Taylor

Thomas Taylor
****
QLD 4170

Taylor-Marshall, Frances – Monday, 15 August 2022 – 09:24:45

Subject	STOP Origin's fracking plans IMMEDIATELY
From	Frances Taylor-Marshall
Sent	8/15/2022 9:24:45 AM

TO THE NORTHERN TERRITORY DEPARTMENT OF ENVIRONMENT
PARKS AND WATER SECURITY

I am writing on behalf of my whole family, who also work, live and play in the Northern Territory, and we explore you to STOP ORIGIN'S FRACKING PLANS IMMEDIATELY for the sake of our planet and our people. You all have the evidence, we all have read the evidence of such a project and I don't want to insult anyone's intelligence spelling out the consequences, immediate consequences, as there is no long term!
with thanks for this opportunity to be heard
Frances

Frances Taylor-Marshall
****
VIC 3461

Tayrien, Dara – Friday, 12 August 2022 – 22:18:51

Subject	Stop Origin from Fracking in NT
From	Dara Tayrien
Sent	8/12/2022 10:18:51 PM

To the NT Dept of Environment, Parks and Water Security,

in 2007 the United Nations passed the Declaration on the Rights of Indigenous Peoples. In 2009, the Australian Government made a public statement formally endorsing the declaration. This document included 46 articles including: Indigenous peoples have the right to own, use and control their lands, waters and other resources. Governments shall recognise and protect these lands, waters and resources (Article 26).

Given that Australia and its government and people have to this I do not believe that the NT Government could possibly approve Origin's fracking plans when they are opposed by the traditional owners of the land and the government is charged with protecting the land, its water and resources.

Beyond this, Origin has yet to implement all 135 recommendations as agreed in the Pepper Inquiry which was the basis upon which any fracking could be done. I not only believe that they should not be able to do the new drills, but they should also have to stop any fracking that's going on now until all of the recommendations have been completed. Big energy companies are known for trying to get by with whatever they can, and in my view, it is the job of the government to keep them honest and ensure that can't do anything new until they've fully completed what was agreed to in 2018.

But now not only are they asking for NT to fast track the approval of 12 new tracking drills without proper baseline assessments, but they also want to sell the spoils without the proper production license. We have licensing rules in place for a reason, and being one of the largest gas producers in Australia should not allow you to bend the rules. Also, they are asking for huge amounts of water while pockets of the NT have had serious and severe rainfall deficiencies for the period December 2021 to July 2022, And worse yet, they don't have an adequate plan in place to handle waste water other than trucking it to other states. That is not a plan.
Origin also needs to do the proper testing to ensure that they have proper baseline assessments prior to drilling.

I respectfully request that the NT government do the right thing and DO NOT APPROVE Origin's request for 12 new fracking drills in the NT on Aboriginal Land. Origin has not completed implementing the list of recommendations from 2018 and until that is done, fracking should not even be considered.
And based on the UN initiative that Australia ratified in 2009, if the Aboriginal owners do not want Origin to frack on their land, then they shouldn't be able to do it. Australia must honour its commitment to the Aboriginals. We must protect our beautiful lands from being destroyed for profit.

Please do not accept Origins plans to open 12 new exploratory fracking drills in the Northern Territory.
These wells threaten the water supply, cultural heritage and our climate. Origin has not proven itself to be a responsible party. They haven't completed the recommendations that they agreed to in 2018 and are now trying to side-step many of the regulations that are put in place

to protect or environment. Do the right thing with respect to the land and our first nations people do not approve of this fracking plan in NT.

Kind regards,

Dara Tayrien

Dara Tayrien
****
QLD 4005

Teakle, Brian – Sunday, 14 August 2022 – 08:11:45

Subject	Fracking
From	Brian Teakle
Sent	8/14/2022 8:11:45 AM

World wide we have destroyed enough Lets start to put it all back together again. Fracking has too may risks. I am a customer of Origin and do not like this activity.

Brian Teakle
****
SA 5032

Teale, Chris – Friday, 12 August 2022 – 16:30:06

Subject	Stop origin's fracking plans
From	Chris Teale
Sent	8/12/2022 4:30:06 PM

Please do not allow Origin to go ahead with their 12 proposed new fracking sites Traditional owners have been against this proposal for many years due to the threat of damage to country including their sacred sites, their water catchment areas and ground table water. At a time when we are agreeing to limit greenhouse gases to 43% we cannot open up new sites which create more pollution to the atmosphere

Chris Teale
****
SA 5049

Teasdale, Mark – Sunday, 14 August 2022 – 18:49:50

Subject	No Fracking Way
From	Mark Teasdale
Sent	8/14/2022 6:49:50 PM

No new gas mines or wells should be drilled. Particularly in Australia we have enormous renewable energy resources to be developed and utilised. Fracking will ruin the ground and leave a large environmental mess which will destroy and contaminate the precious groundwater as well use vast quantities of ground water. Not to mention the damage to indigenous cultural sites. Its means short term gain for a few at the expense of long term pain for many.

Mark Teasdale
****
WA 6282

Teather, Elizabeth – Saturday, 13 August 2022 – 12:45:23

Subject	Stop Origin's Fracking plans
From	Elizabeth Teather
Sent	8/13/2022 12:45:23 PM

To the Northern Territory Dept of Environment, Parks and Water Security
I am a retired academic Geographer living in the ACT.
I have many concerns about Origin's proposal, but the primary one concerns water. Water reserves in the NT are scarce and the less they are depleted the better. And the trucking of 60 mill litres of waste water is unnecessary wear and tear on NT roads.
Secondly Origins must implement all 135 recommendations of the Pepper Enquiry, which they do not intend to do.
Thirdly, Tradition Owners reject this proposal for good reasons: risks to water, country and cultural heritage. I support these my fellow Australians.
I hope you will listen to arguments and those of others who object to this proposal, and reject Origin's EMP..
Yours sincerely, Elizabeth Teather (Dr)

Elizabeth Teather
****
ACT 2612

Tebbutt, Petet – Saturday, 13 August 2022 – 09:29:16

Subject	Stop Origin’s fracking plans
From	Petet Tebbutt
Sent	8/13/2022 9:29:16 AM

Stop it? Just stop!
We have enough gas,
Just stop!!

peteT Tebbutt
****
NSW 2480

Teevan, Duncan – Sunday, 14 August 2022 – 14:49:15

Subject	Origin Fracking proposal
From	Duncan Teevan
Sent	8/14/2022 2:49:15 PM

To Northern Territory Department of Environment, Parks and Water Security.
Very disappointed to be writing on such a familiar topic. Despite the commercial gain for Origin, and to a lesser extent Australia, which is of course important, the greater issue here is the environmental impact on our country and our planet.
By now, the science should be well understood by decision makers, and destructive carbon based extraction should not even be on the agenda.
Northern territory is well placed, with its abundant sunshine and open spaces, to be a global leader in renewable energy. Short sighted goals based on limited environmental planning should not really even be considered.
I write as a resident of NSW. However, the decision you make will eventually affect us all and I urge you to take the environmentally responsible view and reject the application by Origin

Duncan Teevan
****
NSW 2204

Telford, Clinton – Sunday, 14 August 2022 – 18:48:57

Subject	Stop Origin's fracking plans
From	Clinton Telford
Sent	8/14/2022 6:48:57 PM

Please do not allow this fracking to occur without the consent of traditional owners. All 135 recommendations of the Pepper enquiry should be met before this can even be considered. And even then the climate and environmental damage that would occur is too risky.

Clinton Telford
****
QLD 4160

Temby, Diana – Sunday, 14 August 2022 – 15:42:02

Subject	Stop Fracking!
From	Diana Temby
Sent	8/14/2022 3:42:02 PM

To the Northern Territory Parks and Water Department
Dear Sirs
Australia does not need this project and does not need this gas....Fracking is dangerous dirty and destructive.Its long term consequences are unknown.Why take any risks with our precious environment? Please do not allow fracking to proceed.
Yours sincerely
Diana Temby

Diana Temby
****
NSW 2130

Temby, Ian – Sunday, 14 August 2022 – 15:28:26

Subject	No fracking in the NT
From	Ian Temby
Sent	8/14/2022 3:28:26 PM

To, Northern Territory Department of Environment, Parks and Water Security.

Dear Madam/Sir

As an ecologist I am acutely aware of the current problems caused by climate change and of the horrendous future our children will face if we fail to curb emissions drastically within the next few years.

Proposals to frack in the NT, or indeed anywhere, are a recipe for ensuring that our future is unliveable, since increasing sources of fossil fuels inevitably adds to emissions both by directly burning those fuels, as well as the significant and often unreported fugitive emissions associated with fossil fuel exploration and production.

In a future where water security can no longer be ensured, due to current levels of climate change, any activity that threatens groundwater reservoirs that are relied upon by many remote communities would be foolhardy in the extreme. Yet, that is exactly what Origin's plans for fracking in the NT are likely to do.

I urge you strongly to reject any proposals for fracking in the NT and to pursue any organisations that start preparatory work without approvals and seek reparations from them.

Yours sincerely

Ian Temby
****
VIC 3442

Temby, Jon – Saturday, 13 August 2022 – 16:11:05

Subject	Stop Origins fracking plans now
From	Jon Temby
Sent	8/13/2022 4:11:05 PM

The future health of our country and the global community depends on stopping all fossil fuel projects immediately. No new fracking activities should be allowed on several counts including preserving the purity of our water tables as well as maintaining a livable climate by stopping fossil fuel explorations and exploitation.

We must focus on the long term issues. Fossil fuels and fracking are short term gambles with appalling environmental consequences.

Origins intention to conduct fracking must be stopped immediately

Jon Temby
****
VIC 3992

Temby, Peter – Friday, 12 August 2022 – 14:33:15

Subject	Stop Origins Fracking Plan!
From	Peter Temby
Sent	8/12/2022 2:33:15 PM

To: Northern Territory Department of Environment, Parks and Water Security.

I wish to make a submission against the proposal by Origin on the basis of:
1. Origin is proposing to sell the gas without proper approvals being in place once they start exploring. Their program would appear to be designed to immediately commence small scale production prior to turning the Beetaloo Basin into another Texas, complete with all the problems caused to local landowners in Texas.
2. Origin has not adequately consulted with all Traditional Owners, many of whom have not given consent and who are strongly oposed to Origins plans for potential destruction of their water supplies and sacred sites.
3. The issues of groundwater contamination are well known from elewhere and no adequate plans have been put in place to supply the potentially affected communities with a clean water supply in perpetuity if their water supplies from aquifers are contaminated.
4. Gas is not a cleaner energy source and the amount of fugitive emissions during exploration, development, piping to processing centres and processing to saleable products all involve losses that on average are very significant and are significant in increasing climate change, apart from the CO2 emitted by burning of the gas. The emissions effects from gs are now considered, on a total cycle basis, to be similar to coal in climate change effects.

I am a geologist, and have had a career in coal extraction and gas management, including gas extraction and dewatering of in seam holes to allow gas extraction. Pervasive fracturing to allow fracking ideally would stop only in the target horizons, but rarely will do so and also theye are numerous natural joints and fractures that when disturbed by the pressures induced by fracking will cause leakages from the target horizons. Ground water contamination is almost inevitable.

I am of the opinion that, apart from the lack of consent by Traditional owners and appropriate permist to sell gas, this project has too high a risk to both the local environment and also to the exacerbation of climate change to allow it to proceed.

Peter Temby
****
NSW 2156

Templin, Jenny – Saturday, 13 August 2022 – 14:26:24

Subject	Stop Origin's fracking plans!
From	Jenny Templin
Sent	8/13/2022 2:26:24 PM

As a long term environmentalist and former Editor of corporate publication ENVIRONMENT AUSTRALIA in 1989/90 I'm outraged to learn that 12 new fracking drills are planned in the NT, threatening not only water and our future climate but flying in the face of long standing opposition by Traditional Owners.

I have just spent 2 weeks in the desert outside Alice Springs with Senior Lore Men and Women, Custodians and Elders from all over Australia, all of whom care deeply about Country and what is happening to it after generations of careful management by generations of original peoples.

This planned proposal is a violation of not only their rights as custodians of this country but of the huge number of Australians like me who oppose this damaging unnecessary practice.

It's time to care for our country, to stop destructive, potentially contaminating practices such as fracking and to instead choose alternatives for power that are environmentally benign.
The time is now!

Jenny Templin
****
NSW 2040

Terry, Cris – Thursday, 11 August 2022 – 14:31:18

Subject	Stop Origins Fracking Plans
From	Cris Terry
Sent	8/11/2022 2:31:18 PM

Please do not allow any more fracking in Australia. It is way too damaging to our environment!!!

Cris Terry
****
NSW 2500

Tetu, Kathy – Sunday, 14 August 2022 – 14:35:51

Subject	No support for Origin Energy plans to frack in NT
From	Kathy Tetu
Sent	8/14/2022 2:35:51 PM

Please do not approve Origin Energy plans to frack in NT- the country does not need this and the money doesnt go to the people who live there.
Climate change is real and fossil fuel extraction will only make it worse. We need to go in a different direction.
Thank you.
Kathy Tetu

Kathy Tetu
****
NSW 2304

Tewari, Dev – Friday, 12 August 2022 – 16:02:18

Subject	Stop fossil fuels and Origins proposal.
From	Dev Tewari
Sent	8/12/2022 4:02:18 PM

Dear Sir/Madam with reference to the subject matter, you can either support the communities expectation to protect and represent the community at large and the environment by taking bold action and insisting on energy based on renewables OR you can provide lip service by cowardly bowing to the fossil fools industry and throw tax payers funds just to benefit a very few with vested short term interest.

I urge to represent the community who want a definitive change - no more destructive fossil fuels and PR regarding how important this gas is to Australia.

There are alternatives but it's not in Origins business model, that is no justification to approve new gas wells.

Be Bold and have the courage to take action to stop this destructive development.

Regards
Dev Tewari

Dev Tewari
****
QLD 4005

Thatcher, Jim – Sunday, 14 August 2022 – 11:57:28

Subject	The danger of Origin's hasty fracking plans
From	Jim Thatcher
Sent	8/14/2022 11:57:28 AM

To the honorable members of the Northern Territory parliament,
Please control the plans of Origin to start exploratory gas wells before meeting the conditions of wastewater management.
The risk to scarce ground water supplies, of increasing climate danger is too great.
As a caring Australian citizen, I believe the risks to ground water which support residents in remote parts of NT should not be allowed for short term energy benefits.
Yours sincerely,
Jim Thatcher, Tea Gardens NSW 2324

Jim thatcher
****
NSW 2324

Thavaraja, Phil – Sunday, 14 August 2022 – 15:22:05

Subject	pthavaraja@gmail.com
From	Phil Thavaraja
Sent	8/14/2022 3:22:05 PM

I urge you to consider the international evidence that fracking cause damage to the environment and the water tables below. The land belongs to the people not to international corporations who do not care about the damage they cause, they only care about their profits, ultimately the companies walk away from the damage they cause leaving local people to suffer the effects of their fracking.It is encumbent on the government to protect the environment and the people who elected it. The traditional owners do not want fracking and they should be listened to.Please do not fail the people you represent.

phil thavaraja
****
VIC 3133

Thomas, Bill – Saturday, 13 August 2022 – 11:02:32

Subject	Stop Origens Fracking Plans for NT.
From	Bill Thomas
Sent	8/13/2022 11:02:32 AM

To NT Dept. of Environment Parks and Water Security.

I wish to register my opposition to the approval given to Origin Energy for 12 exploratory fracking wells on Amungee Pastoral station.

My reasons are:
It is opposed by indigenous owners.
Risks to ground water from fracking.
I have grandchildren and great-grandchildren. Their future is threatened by climate change. If we were to follow the advice of science and heed the warnings of the latest IPCC report. we cannot afford to open any new coal and gas mines.
Please act responsibly for the future of the planet.

Bill Thomas
****
NSW 2074

Thomas, Claire – Saturday, 13 August 2022 – 19:54:33

Subject	Stop fracking NT
From	Claire Thomas
Sent	8/13/2022 7:54:33 PM

Hi my name is Claire Marie Thomas
I run a volunteer group in the foothills of the Dandenong Ranges with my local community in outer east Melbourne.

For 20 years we've been caring for country, indigenous shrubby foothill forest and the creek and riparian, working in partnership with Melbourne water and the Shire of Yarra Ranges.

I've learned how important it is to care for every aspect of country, and the importance of valuing high quality vegetation and habitats, acquatic invertebrates and stabile banks for the preservation of biodiverse flora and fauna.

I have gained an understanding that government needs to urgently call a halt to land clearance and all forms of land degradation, including fracking, shifting to renewable energies to avoid an immanent climate disaster, if we fail to do so.

I've recently returned from holidaying in central Australia NT.
There's no place like this ancient land, anywhere else in the world. (I've travelled widely in my 20's!)

Aboriginal song lines, cultural stories going back 80 thousand years, still exist today.
In the waterholes ancient spirits remain to protect these ancient places.
Creek beds and rivers provide habitat for unique animals and remain to this day an integral part of daily life practices for Aboriginal people living on country.

Surface water is only a small part of the story.
It's the deep waters below. The springs are key to the health of water.
Traditional owners know not to disturb beneath the waters for
cultural reasons, for safe, clean drinking water. Also to care for country as their ancestors have done so before them.

12 new wells, planned by Origin will pose massive risks to water, cultural heritage, and our climate.

This would be a disastrous waste of precious water and create production of wastewater which becomes some one else's problem when they truck it interstate.

Traditional Owners are continually defending their country against fracking drills for years.

Ignore them and there will be dire consequences for the health of country.

I urge the NT government to reject Origins EMP.

Yours sincerely,
Claire Marie Thomas
Coordinator Friends of Heathfield Creek,
Montrose, Vic, 3765

Claire Thomas
****
VIC 3765

Thomas, Kerry – Sunday, 14 August 2022 – 11:30:23

Subject	FRACKING
From	Kerry Thomas
Sent	8/14/2022 11:30:23 AM

It is ABSOLUTELY IMPERATIVE that the N. T. Government put an IMMEDIATE STOP to Origin's environment wrecking fracking plans!!!

Kerry Thomas
****
TAS 7300

Thomas, Lisa – Saturday, 13 August 2022 – 16:53:19

Subject	Stop Origins fracking plans now.
From	Lisa Thomas
Sent	8/13/2022 4:53:19 PM

Stop this fracking before it starts it is a disaster for our natural country.

Lisa Thomas
****
NSW 2478

Thompson, Beverley – Sunday, 14 August 2022 – 10:45:23

Subject	Fracking
From	Beverley Thompson
Sent	8/14/2022 10:45:23 AM

It is time to stop all fracking in the Northern Territory. It will cause irreparable damage. Do not allow Origin's plan to go ahead

Beverley Thompson
****
NSW 2782

Thompson, Laurel – Sunday, 14 August 2022 – 10:37:55

Subject	Stop Origins fracking plan
From	Laurel Thompson
Sent	8/14/2022 10:37:55 AM

Yes.stop Origins destructive fracking plans.Too dangerous to country and water.

Laurel Thompson
****
NT 0810

Thompson, Roger – Sunday, 14 August 2022 – 17:21:27

Subject	Stop N.T fracking plans.
From	Roger Thompson
Sent	8/14/2022 5:21:27 PM

To. Northern Territory Dept. of Environment, Parks & Water Security.
I am writing to express my strong opposition to Origins reckless plans to open 12 new fracking drills in the N.T.
It is time to stop and listen to Traditional Owners who have been defending their country against past and future damage caused by fracking.
If you are genuine in wanting to support these Landowners, you MUST STOP this, and any future applications by greedy businesses to cause so much damage to country in the name of making profits.
Please stop any further damage to these traditional lands.
Roger Thompson OAM

Roger Thompson
****
VIC 3300

Thomson, Florence – Saturday, 13 August 2022 – 16:10:06

Subject	LIsten to First Nations people defending their land
From	Florence Thomson
Sent	8/13/2022 4:10:06 PM

It is a cause of great concern to me, as an Australian, that the wishes and rights of First Nations people are upheld in principal but not in practice.

Origin Energy's application for 12 new fracking drills in the Northern Territory is not the sort of environmentally responsible action that any sane person would wish to see. On that front alone I ask that their application be denied.

But even were that not the case, the fact that the wishes and concerns of Traditional Owners about this continue to be ignored is a matter of grave concern. The harm done to Australian Aboriginal Peoples and their country over more than 200 years needs more than just an apology. We are realising now that their care for this land was based on wisdom and knowledge of it and a concern for the balance of its nature. Us later comers have done nothing but desecrate it.

Please listen to them now, and deny Origin Energy's application for new fracking wells in the Northern Territory.

Florence Thomson
63 Croydon Rd
Surrey Hills VIC 3127

Florence Thomson
****
VIC 3127

Thomson, Peter – Saturday, 13 August 2022 – 17:26:19

Subject	Stop Origin's fracking
From	Peter Thomson
Sent	8/13/2022 5:26:19 PM

NT Dept of Environment, Parks and Water Security

Good morning

My name is Peter Thomson and I am a 70 year old individual with no political or other affiliations but concerned about the environment with a particular concern about the dangers of fracking in the continued unwarranted search for more fossil fuels.

I have had a passing interest in the wonder that is The Great Artesian Basin, lying beneath Australia's arid surface, for some time. I believe over the last few decades various governments have taken some action to reduce the wasteful extraction of water from the basin by encouraging and help with the funding of capping unnecessary wells. This is positive action.

However the scientists and engineers tell us that the Basin is not easily replenished by rainfall across the north during the wet season as initially believed. Replenishment by these natural forces can take millions of years and is therefore not a solution to the extraction issue. The water locked within the Basin is therefore effectively a finite amount which is being drained by the current level of extraction. This was brought home to us in a light bulb moment when talking to a guide on a trip to Darwin 2 years ago. We commented on how dry things were and he explained that apart from the rainfall having been below average for several seasons which affected replenishment of tanks and dams, farmers and other users were having to drill much deeper into the Basin for the rest of their water needs. Wells which had been say 30m deep were now down to 90m. The Basin is being drained.

I believe that the fracking method of accessing gas should not be used due to the potential contamination of all underground water sources.

The fracking method of fossil fuel extraction has rightly been banned by the Victorian Government and I would like to see it banned in all states. The evidence of damage to the environment – farming land, water supplies etc – have been widely documented with particular horror stories coming from the USA.

In conclusion I would ask the NT Government to reject Origin's plans on behalf of all Australians and particularly the Traditional Owners of these lands.

Thank you for noting my submission and apologies for repeating points that you will be well aware of and which will be presented in more authoritative terms than I have done.

Yours sincerely

Peter (Thomson)
6 Bryant Street Brunswick Vic 3056

Peter Thomson
****
VIC 3071

Thornton, Darlene – Saturday, 13 August 2022 – 14:20:12

Subject	Reject Origins' fracking drills
From	Darlene Thornton
Sent	8/13/2022 2:20:12 PM

Hello, I am Darlene - a 7th generation Australian and I love this country. I live in Central Coast NSW with my family. Due to my love for this country and its peoples, I am writing to ask you to reject Origins plan to open up 12 new fracking drills in Northern Territory.

Northern Territory and its peoples are fragile and I am supporting the Traditional Owners for the call to reject and protect the country, including its water and climate for many generations to come.

It does not make sense to frack in this country when there are other means to supply energy and such. We have to treasure this country and the world we live in by being careful with using natural resources appropriately. This plan is not that.

I am asking the Department to reject Origin's EMP.

Thank you,
Darlene Thornton

Darlene Thornton
****
NSW 2258

Thring, Lionel – Sunday, 14 August 2022 – 14:27:24

Subject	Stop the Fraking
From	Lionel Thring
Sent	8/14/2022 2:27:24 PM

We know that franking poses a contamination threat to ground and water. For this reason alone it should not proceed.
We know that Indigenous People do not want this destruction of their Sacred Lands.
Honour them! As we now know these companies Exploit the Resource, Exploit Australian Consumers and pay little or no Tax and leave the ongoing Contamination Clean up to Tax Payers. Stop the Rot and Stop the Disrespect of the Original Owners of these Lands.
The Fossil fuels are adding to the Green house effect and Climate Change which is causing increasing rain events, flooding, bush fires, loss of biodiversity, coral bleaching and an increase in our insurance premiums. Enough is enough.

Lionel Thring
****
QLD 4109

Thumper, Snake – Sunday, 14 August 2022 – 15:44:54

Subject	Origin and the Traditional Owners
From	Snake Thumper
Sent	8/14/2022 3:44:54 PM

Origin: We pay our respects to the aboriginal and torres strait islander traditional owners, past, present and emerging

Owners: Oh, we own it?

Origin: yes

Owners: ok cool - you cant frack it then

Origin: Well we can, because the Gummint gave us a piece of paper that says we can

Owners: oh you mean like Terra Nulius?

Origin: well no, this one is legal

Owners: but you said we own it

Origin: I know but thats only to make you feel good, we still get to do what we want, whenever we want. Bye!

Snake Thumper
****
NSW 2000

Tidemann, Ruth – Friday, 12 August 2022 – 09:49:03

Subject	Stop fracking
From	Ruth Tidemann
Sent	8/12/2022 9:49:03 AM

Northern Territory Parks & Reserves
Please stop Origin's greedy intentions of raping the land.
Thankyou
Ruth Tidemann

Ruth Tidemann
****
QLD 4500

Tierney, Stephanie – Sunday, 14 August 2022 – 14:18:08

Subject	stef12@internode.on.net
From	Stephanie Tierney
Sent	8/14/2022 2:18:08 PM

we need to think about our country our land lets not allow this to happen

Stephanie Tierney
****
SA 5045

Tiger, Tim – Thursday, 11 August 2022 – 14:26:21

Subject	STOP ORIGIN'S FRACKING PLANS
From	Tim Tiger
Sent	8/11/2022 2:26:21 PM

Northern Territory Department of Environment, Parks and Water Security.
ORIGIN'S FRACKING PLANS: Ridiculous at this stage in the history of the Universe. Money, money, money.
Let's get this straight.....ORIGIN'S potential subterranean booty is worthless until they start investing in it and paying for people to pipe it up to the surface. After that it gets sold and burnt and further adds insult to injury by warming the planet and polluting the environment. Until it runs out.
Equally as initially worthless is solar, wind and tidal energy.....which if invested in would never run out and doesn't bugger up the planet. So why not stop being silly enabling the wasting of money on stuff that buggers up the place and get onto the sustainable alternatives instead ASAP, and stop annoying people, especially in this case the First Nations people just because they don't have the oomph to stop you from signing the deal. You are supposed to repesent the people; instead you're poised to preside over the poisoning of them instead. it's like a broken record, and it's getting old. Seriously.

Tim Tiger
****
NSW 2337

Tiltsen, Linda – Friday, 12 August 2022 – 14:22:11

Subject	Stop origin fracking
From	Linda Tiltsen
Sent	8/12/2022 2:22:11 PM

To northern territory Dept of environment

Linda Tiltsen
****
NSW 2540

Ting, Joan – Friday, 12 August 2022 – 15:37:48

Subject	Stop Origin's Fracking Plans
From	Joan Ting
Sent	8/12/2022 3:37:48 PM

Northern Territory Dept. of Environment,

You must act urgently to stop Origin's plans to frack in the Northern Territory. The damage to the land, the water table, the cultural heritage, the climate and way of life will be immeasurable. It will be setting a horrific precedent for others to do the same..
We don't need more gas, as we produce more than enough but we are selling it to other countries instead of looking after the domestic needs first. Fracking should be banned across the whole of Australia. I have seen film of the effects of fracking in other countries and the environmental damage is horrific. The farmers, and people in all other situations are left in the midst of an environmental nightmare. Their water sources are damaged and their lives are destroyed. The Aboriginal people of the Northern Territory have been fighting these proposals for 10 years and it's time you started listening to them.
When the pipes going deep down into the ground are new, maybe they are fine then. What about down the track when the pipes are old and leaking into the water table of the Artesian Basin? What happens to all the people living there when the waters of the Artesian Basin cannot be used for human or animal life? The risk is not worth it no matter how much Australia and companies are earning from the export dollars. Then the people there will be left with useless land and no way to sell their properties to escape their living nightmare!
It's time to put people, animals, the environment, and the climate before the almighty dollar or we will all be living in a nightmare future.
Sincerely,
Joan Ting

Joan Ting
****
SA 5042

Tisdall, Jonquil – Friday, 12 August 2022 – 23:03:22

Subject	STOP ORIGIN fracking
From	Jonquil Tisdall
Sent	8/12/2022 11:03:22 PM

The Northern Territory Dept of Water Lands and Infratructure.
It is with true dread that I fear this Department is not doing its job conscientiously. The damage that can, and is done through fracking is irreversible. How can you, the caretaker of this fragile environment give sanctions to this type of exploration?
I beg your Department to take into consideration the present fragile nature of this country and what irreparable damage you might be sanctioning.
The future of mankind on this planet is teetering precariously on the brink of extinction.
Please do NOT help push it over the edge with this decision.
Please DO your part in standing up for our environment and our children's future.

Jonquil Tisdall
****
SA 5211

Tits, Be – Friday, 12 August 2022 – 14:38:16

Subject	viviane.mesanges@gmail.com
From	Be A Part Of History Tits
Sent	8/12/2022 2:38:16 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Be a part of history Tits
****
QLD 4031

Tjiltjapuna, Yapuru – Friday, 12 August 2022 – 13:12:33

Subject	STOP Origin's reckless fracking plans
From	Yapuru Tjiltjapuna
Sent	8/12/2022 1:12:33 PM

No means no, we don't want fracking on our land.
It is our land.
We never ceded the right to the land, the sea and the air. We have never given that right away.
We never told mainstream (white people) in any way that we had given them this country to frack and pollute our precious waterways.
Time to stand up and be accountable for the people that elected you NOT the business that lobby for the destruction of our country.

YapuRu Tjiltjapuna
****
QLD 4554

Tobin, Meryl – Sunday, 14 August 2022 – 20:48:16

Subject	Lead not blindly follow - stop Origin's fracking plan
From	Meryl Tobin
Sent	8/14/2022 8:48:16 PM

My husband Hartley and I are long time conservationists who want to be good stewards of our planet and hand on a planet worth living in to the younger and future generations. This includes fighting anything that denies climate change, such as Origin's plans to open 12 new fracking drills in the NT.

As Victorians, most of the challenges we have had are in Victoria, especially in our own area, Bass Coast Shire. However, things go on in other states that horrify us. When we have the knowledge and ignore it, what does that make us?

Be a leader and stop Origin's fracking plans. Gas is a polluting fossil fuel and fracking threatens water, cultural heritage and climate.

If Origin is allowed to frack, it opens the way for other corporations to do the same.

Please, show you understand the issues involved and act accordingly. We, all conservationists and future generations will thank you for your leadership in this serious matter. If you need help to understand the importance of issues, please turn to David Attenborough, whom many people, including us, believe is one of the greatest persons to live in the 20th and 21st centuries. He has made them clear.

Anyone who watched 'Extinction and Climate Change with David Attenborough' on 1.4.2021 on Ch 2, 8.30 pm, would understand that he, along with hundreds of top scientists, believes the world is at a turning point. (See https://iview.abc.net.au/show/extinction-with-david-attenborough.)

As the program illustrates, if you want something left for your children and their children's children in perpetuity, you have to act now. Your territory, like our shire, is a microcosm, part of the macrocosm that is the planet Earth. To excuse lack of action to save your small area because of current laws and regulations will not save our shire nor our planet. If currently such laws and regulations allow frackers to endanger your/our environment, then it's high time to call on the responsible lawmakers and authorities to change the laws and regulation, not endorse them with conditions to 'mitigate risks'. Taking ineffectual baby steps to check destruction is only marginally slowing down incremental destruction of our planet, not saving it.

As David Attenborough said, "We can safeguard our planet's diversity but ... what happens next is up to every one of us." As my University Sociology lecturer talking about India and the caste system where Untouchables were treated abysmally once said, "If enough people bash their head against a brick wall at the same time, it will fall."

David Attenborough urged us to look at our current lifestyles and said we have to educate our children on the way Nature works. We have to realise plants are an integral part of our existence. "[Future generations] will look back on our generation with absolute horror," he said. "We are walking a tragic road of extinction."

We must stop unsustainable development now not just slow it down.

In hope.

Meryl Tobin
****
VIC 3984

Todd, Jacob – Saturday, 13 August 2022 – 19:58:46

Subject	the future
From	Jacob Todd
Sent	8/13/2022 7:58:46 PM

fracking is extremely short sighted belonging to the logic of the 19th century. only obese old men have any interest in such suicidal investments

jacob todd
****
VIC 3071

Tolley, Ian – Friday, 12 August 2022 – 22:54:37

Subject	Climate change legislation NOW
From	Ian Tolley
Sent	8/12/2022 10:54:37 PM

There is a new, unstoppable political will now to prevent stupidity like fracking just for profit, with permanent massive destruction.
Show some backbone and reverse "liberal minded" thinking forever and become a proud Australian with a conscience and show regard for your grandchildren.

Ian Tolley
****
SA 5341

Tomlinson, Cath – Sunday, 14 August 2022 – 14:21:08

Subject	Please stop the fracking
From	Cath Tomlinson
Sent	8/14/2022 2:21:08 PM

Dear NT government environment, parks and gardens,

Please don’t allow more fracking! You preside and govern one of the most precious, beautiful places in the world!! Don’t allow it to be damaged for private money. Please think of the future, the children, and the generations to come… protect the beautiful NT!!

cath tomlinson
****
VIC 3166

Toms, Stephen – Sunday, 14 August 2022 – 16:21:11

Subject	sctoms5@bigpond.com
From	Stephen Toms
Sent	8/14/2022 4:21:11 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
Kind regards
Stephen Toms.

Stephen Toms
****
VIC 3116

Tonson, Paul – Friday, 12 August 2022 – 21:08:55

Subject	Stop Fracking developments
From	Paul Tonson
Sent	8/12/2022 9:08:55 PM

Northern Territory Government

I am one of many Australians who worry about climate change and especially environmental damage due to human actions like fracking.
I would rather pay more for energy than see the government support or allow fossil fuel enterprises to use up resources and spoil the landscape.
Please put a complete stop to all new fossil fuel projects of all kinds.
Paul Tonson
Melbourne

Paul Tonson
****
VIC 3107

Touzeau, Jane – Saturday, 13 August 2022 – 14:56:01

Subject	Fracking is known for its multiple long term destructive impacts I
From	Jane Touzeau
Sent	8/13/2022 2:56:01 PM

Attention : Northern Territory Department of Environment, Parks and Water Security

I learned a lot about fracking and it's insidious business model in New York about ten years ago. I was horrified to hear about the long-term environmental damage enabled by corporate attacks on environmental protection laws. This came from a high level, when Dick Cheney who had previously been CEO of Halliburton, a drilling company that still owns the secret formula for the toxic chemical cocktail in the fracking solution that is pumped underground, became Vice President of the USA and landmark environmental protection laws were overturned. Fracking for gas was enabled to make a business profit at the expense of the domestic and global environment.

That period also saw the beginning of the end of the ability of aboriginal communities to veto who could come onto their land, courtesy of the NT Intervention. Now, those previously protected lands are, as you know, covered with mining exploration licences.

The underground water of the NT is precious and the ancient system is complex. If drilling was to start, there is actually no way to protect that water or to contain the injected chemical flow.

Methane is a greenhouse gas which has about 80 times the impact of carbon dioxide on the atmosphere. Therefore, any gas currently safely stored underground which is 'fracked' into the outside world becomes either fugitive emissions through both leakage and pipeline faults, or during processing and use contributes to accelerating global warming.

As there is no way to repair the large scale, long term damage of fracking, the obvious cause of action is to not permit it. Corporate profit at public and environmental cost needs to be seen for what it is - unsustainable.

There is quite enough known in this area of endeavour for regulators to strongly exert their professional public responsibility for the environment on behalf of the public. Your department has the opportunity and the responsibility to reject Origin's application and your keen attention to it is really, really important.

Yours sincerely

Jane Touzeau

Jane Touzeau
****
VIC 3184

Tracy, Robyne – Saturday, 13 August 2022 – 14:54:02

Subject	STOP Origins fracking plans which are a danger to the health and safety of the lands of our First Nations People!
From	Robyne Tracy
Sent	8/13/2022 2:54:02 PM

My name is Robyne Tracy. I live in Sydney and am not a First Nations person. I am what would be considered a typical Australian……with ancestors originating from 1802 as well as more recent ones of 1912. When growing up in this wonderful land of ours I was never unduly concerned about our environment and the survival of our native flora and fauna. All seemed well, I had an untroubled life in the clean and free air, I could drink water from creeks as I walked and camped in our bushland, and enjoyed the presence of native vegetation and creatures without ever thinking that the day would come when all of these wonderful things which make up our country and create the uniqueness we have all enjoyed would suddenly come under threat of destruction by the greed of strong mining interests who sought to profit from what essentially belongs to all Australians. This is not yours to give away. This country belongs to the people. Instead these companies - in some cases even government subsidised with the lure of 'jobs' (which are relatively few when when one considers the enormous profits generated as well as mechanisation of so many work roles) - destroy our environment, pay no taxes - or at least do not pay for taking what is ours, and are even now forging ahead without proper scrutiny and legal assent…..because they can!
Please wake up to the fact that ordinary Australians like me now recognise the damage and injustice of what these companies have been allowed to undertake in the past and we WILL NOT STAND BY AND ALLOW YOU TO APPROVE THIS DESTRUCTION without objecting and doing all possible to turn this terrible situation around.
I am speaking up not only for the safety and rights of our First Nations people, but for all Australians who value our Country and understand that we have reached a tipping point in destruction and exploitation. Listen to the people……we are aware!!

Robyne Tracy
****
NSW 2037

Trafford, Alan – Thursday, 11 August 2022 – 14:25:45

Subject	Put a stop to Origins fracking.
From	Alan Trafford
Sent	8/11/2022 2:25:45 PM

Surely the NT Government is not ignoring what Origin is doing without proper permission and due consultation with the traditional owners and the Government.
Rape of the land is unconscionable and should be stopped forthwith. Now is the time to show this Government is fair dinkum and keeps faith with the Traditional owners and the Australian people. We the Australian people demand a stop is put to this pillaging of the land .
Regards.Alan. Trafford.

alan trafford
****
QLD 4655

Tranchant, Claude – Thursday, 11 August 2022 – 14:41:02

Subject	Stop Origin's fracking plant
From	Claude Tranchant
Sent	8/11/2022 2:41:02 PM

Please stop, the fracking plant in the Northern Territory. We need to protect the Traditional Owner Heritage and water. Thank you.

claude Tranchant
****
QLD 4064

Trapnell, Digby – Saturday, 13 August 2022 – 14:39:31

Subject	PLEASE DONT FRACK
From	Digby Trapnell
Sent	8/13/2022 2:39:31 PM

Please don't allow companies to frack!
Please think of the future generations and the problems fracking causes.
It's time to think green on a global scale!
Common sense is essential!
Regards,
Digby Trapnell

Digby Trapnell
****
QLD 4881

Tratt, Ted – Saturday, 13 August 2022 – 13:40:15

Subject	Stop fracking by Origin.
From	Ted Tratt
Sent	8/13/2022 1:40:15 PM

Fracking does more damage to our environment than it is worth. Who knows what the long term effects might be. Can't reverse any damage & we have already done too much of that.
Ted Tratt. To NT government or who it may concern.

Ted Tratt
****
VIC 3783

Trauer, Barbara – Thursday, 11 August 2022 – 17:03:18

Subject	Stop Origin's fracking
From	Barbara Trauer
Sent	8/11/2022 5:03:18 PM

I am very worried about the future of the planet for my grandchildren and all children. If Origin goes ahead with their fracking plans it will add to carbon emissions to the atmosphere and will use huge amounts of our precious water which is needed for growing our food.

Please don't let Origin go ahead with the fracking.

Barbara Trauer
****
VIC 3070

Tregilgas, Henry – Sunday, 14 August 2022 – 16:07:54

Subject	Stop Origin's fracking plans
From	Henry Tregilgas
Sent	8/14/2022 4:07:54 PM

Dear Northern Territory Department of Environment, Parks, and Water Security,

I hope this finds you well. I'm reaching out to ask that you don't allow Origin to begin opening new fracking locations in NT. Fracking is incredibly polluting, and won't bring in many jobs to NT workers (mostly FIFO or international workers). In addition, the Traditional Owners of the area don't want this to go ahead, and their deep understanding of the country means I trust them on this.

I understand you have lots of pressures on you and you all work very hard, just wanted to add my voice to the mix.

Thank you for your time.

Warm regards, Harry

Henry Tregilgas
****
QLD 4226

Trembath, Stephen – Thursday, 11 August 2022 – 13:56:56

Subject	Stop Gas Fracking in the NT
From	Stephen Trembath
Sent	8/11/2022 1:56:56 PM

As a retiree, I love travelling our beautiful country and I buy my Gas and Electricity from Origin. I believe gas is a finite resource and climate changes will lead to its demise as a product.

Once you leave the eastern seaboard. ALL TOWNS are reliant on the underground water for their water supplies. If Fracking was to damage this resource, where would the water for these towns come from. They would have to be abandoned. This would also lead to NO TRAVELLING through the outback. Try watching the film "Erin Brockovich" on the effects on a community due to fracking.

Let talk about Tennant Creek. Their water comes from the Cabbage Gum and Kelly Well aquifiers. How much would it cost to build a pipeline to replace the water should it become polluted. Remember there are no guarantees that fracking WILL NOT CAUSE A PROBLEM.

Now lets look at Alice Springs. It gets it water from the Amadeus basin and more specifically the Roe Creek Borefield. Again how much is a pipeline? Can't build a dam due to low rainfall and cost. How much will it cost if the population has to be relocated and rehoused if the water becomes polluted?

The time for fracking has long passed. Gas as a product may not be viable post 2030 due to pollution targets.

Please think seriously about the potential for a problem being caused by fracking. Origin stands to make money from fracking else they won't do it. How much will go into the government coffers? Lets look at their recent figures available as a download from their website.

Origin 2021 full year.
Total group revenue $12,097,000,000
Statutory Profit (negative) ($2,291,000,000)
Underlying Profit $318,000,000

So where did all the money go as they are running at a loss according to their figures or is this for "TAX PURPOSES". WHAT TAX DID THEY PAY?

Under Cash flow they paid
TAX 2021 $31,000,000
TAX 2020 ($215,000,000)

So no tax really as they had a massive refund in 2020. Gee how many tax payers would love to pay less than 10% in tax on $318 million "UNDERLYING PROFIT"!

Free cash flow $1,140,000,000
Adjusted Net Debt is $4,639,000,000
That is about 40% of their revenue, a high debt figure if you ask me.
They still paid 7.5 cent a share.

Sounds like they do not care about Australia at all as they are not paying much tax. Less in percentage to the the average worker. But the shareholders got paid. Meanwhile we are still paying high prices.

Thank you for your time. Do you own research before you decide. But it would be a NO as far as I'm concerned. Too risky for the nation's health.

Stephen Trembath,
Lyndhurst, Victoria.

Stephen Trembath
****
VIC 3975

Triado, Paola – Sunday, 14 August 2022 – 14:35:32

Subject	Stop Origins Fracking plans
From	Paola Triado
Sent	8/14/2022 2:35:32 PM

To whom it may concern.
My name is Paola Triado and I am a resident of Australia. I write to you as a concerned citizen. I am more than horrified to learn of the northern territories and Origins plans to ignore the traditional owners of our borrowed land and buldoze ahead with plans for fracking in the northern Territory.Basically,I am outraged that the NT has agreed to allow Origin to go headband basically ignore the owners of the lands' outcries not to allow this.
Why are they not being hear YET again? What is it with the government that you believe you are beyond these traditional owners request at respecting their wishes?????
I believe it is NOW time to listen to these WISE people, rather than thinking only of financial gain.
As the old Indian sufi's refrain ends....once all the fish and resources have been used up and exhausted, we cannot eat money!
I implore that the NT government start thinking clearly about the world as a long term prospect for following generations ,and not worry about the next election.
Make your legacy count,PLEASE,and do the right thing, not only for the traditional owners of this great land, but also our planet.
Thank you for your time.
Paola Triado.Kew,3101

Paola Triado
****
VIC 3101

Triffitt, Geraldine – Thursday, 11 August 2022 – 20:49:18

Subject	Stop Origin's fracking drills
From	Geraldine Triffitt
Sent	8/11/2022 8:49:18 PM

To Northern Territory Department of Environment, Parks and Water Security.
Please do not approve Origin's plans to open new fracking drills which will destroy country, water and climate. Support the Traditional Owners who have been defending their country against Origin for years.

Geraldine Triffitt
****
ACT 2905

Trimmer, Terry – Friday, 12 August 2022 – 14:25:58

Subject	Origins fraking
From	Terry Trimmer
Sent	8/12/2022 2:25:58 PM

Never does a word sound more like a swear word without being one. How can a civilized society allow it to continue. Please don't allow origin to FRAK

Terry Trimmer
****
VIC 3664

Troup, Lizzie – Sunday, 14 August 2022 – 18:11:11

Subject	Don't Allow Origin to do any fracking in the Northern territory
From	Lizzie Troup
Sent	8/14/2022 6:11:11 PM

Please don't allow Origin to do any fracking in the Northern territory. I am appalled that new gas fracking mines are possibly being allowed to go ahead in the Northern territory. Not only will it poison water supplies for humans and animals. It will further increase the risk of climate related disasters. Please don't let this environmental destruction go ahead.
Thankyou for considering my words. Yours sincerely Lizzie Troup

lizzie troup
****
WA 6262

Tubman, Wendyingiro@Gmail.Com.Au – Friday, 12 August 2022 – 17:12:43

Subject	Origin's planned gas fracking
From	Wendyingiro@Gmail.Com.Au Tubman
Sent	8/12/2022 5:12:43 PM

The Secretary

Northern Territory Department of Environment, Parks and Water Security

I write to urge you in the strongest possible terms to rule against Origin opening new gas mines in the Territory.

It renders me (and many other Australians) explosively furious that, given the scientific and experiential evidence, a project such as this should be taken seriously.

We are witnessing climate change on an Australian and planetary basis every single day of our lives.

We are seeing climate-charged, norm-shifting wildfires in Australia, in Europe and in the US - even , for pity's sake, in the Arctic!

From being an irregular and rare topic of Australian news a decade or less ago, it is now mentioned in our news several times a day. It beggars belief that, despite the findings of the IPCC and the UN, new gas and coal mines are being contemplated.

Research has shown that there is no net economic benefit from fossil fuel development. Few people are employed. Pitiful royalties are paid. Taxpayers funds are directed away from schools, universities, hospitals, aged care in order to subsidise private ventures undertaken by billion dollar companies. And, many companies, including Origin, contribute to politicians' largesse while paying two-fifths of five-eights of doodely squat when it comes to tax - concealing their earnings in the Caymans, Delaware, Ireland and other such 'havens'.

And on top of this, the desecration of the land of traditional owners is just plain obscene.

I could go on - but I'm sure you get the gist.

Gas corporations are currently pushing the line that gas is 'good' for the country, and an appropriate way of transitioning from coal... a line sold to support Angus Taylor, Scott Morrison and the previous government, and which they repeated endlessly for reasons know only to them (but suspected by many).
The proposed Origin fracking in the NT would assist the NT government as much as it assisted Taylor, Morrison and the previous government.

The people of Australia have spoken, in line with people worldwide: There must be strong climate action NOW and NO new gas or coal developments.

We have passed a line – the people are no longer prepared to allow self-seeking governments to ignore their wishes, the facts and reason. Governments continue to support/allow fossil fuel development at their peril.

********** Tubman

****
QLD 4888

Tucker, Allan – Friday, 12 August 2022 – 16:38:52

Subject	No fracking in NT
From	Allan Tucker
Sent	8/12/2022 4:38:52 PM

The plans from Origin for 12 fracking wells endanger our precious water sources and must be disallowed.

Allan Tucker
****
NSW 2026

Tuff, David – Thursday, 11 August 2022 – 16:42:15

Subject	Stop all new Fracking Projects
From	David Tuff
Sent	8/11/2022 4:42:15 PM

Northern Territory Department of Environment, Parks and Water Security

Please stop all fracking projects in the NT. It is not in Territorian's interests, it is not required for gas is yesterdays energy. See "Rewiring Australia". Electricity is all that is needed in Australian homes, is cheaper than gas and can be produced by every household via solar and wind power.

David Tuff
****
SA 5042

Tune, Andrew – Friday, 12 August 2022 – 14:06:21

Subject	Please STOP ORIGIN!
From	Andrew Tune
Sent	8/12/2022 2:06:21 PM

I am appalled by Origin's plans to extend fracking into the area near Daly Waters.

It is incumbent on the NT government to protect what are key resources: the water and air. The climate impact of this would be disastrous. Origin cannot be trusted.

Please AT MINIMUM ensure that this does not proceed until all the Pepper Enquiry recommendations are successfully implemented.

Andrew Tune
****
VIC 3127

Turker, Galina – Friday, 12 August 2022 – 14:13:26

Subject	Origin Energy Amungee NW Delineation Program
From	Galina Turker
Sent	8/12/2022 2:13:26 PM

?Dear Hon Environment Minister Lauren Moss

My name is Galina Turker, & I live in Marrara, Darwin.

I am writing to you to share my concerns with Origin's Amungee NW Delineation EMP.

Origin Energy is proposing to keep 12 wells in the EMP open for 730 days and sell gas to the Macarthur River Mine.

Their license only permits them to 'explore' for gas, not 'produce' aka sell it. Allowing them to keep their wells open for over 5 times what is usually required to test how much gas is there to sell it, contravenes the government's commitment to complete scientific baseline assessment of (SREBA), water allocation plans, and other crucial Pepper inquiry recommendations before the industry is fully allowed to go ahead.

Bending these rules to allow Origin to sell gas without a production licence would set a terrible precedent & undermine the integrity of our regulatory system.

CLIMATE IMPACTS

535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.

Origin has not addressed the Scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (keeping 12 wells open for more than 5 times the usual appraisal period) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible (ALARP).

Origin are pretending that selling the gas will reduce the emissions from the project. This is not true... in fact, under this plan, Origin would keep the wells open for over 5 times longer than they actually need to test the resource, creating a massive carbon footprint of over 2 million tonnes of CO2-e. Most of these emissions would be
?'scope 3' (from combusting the gas) rather than 'scope 1', so Origin can make them someone else's problem. These emissions will still hurt the climate and they would still count towards the NT emissions targets.

WATER & WASTE

Origin Energy will need 430 million litres of water to drill & frack the 12 wells & will be taking it from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. They will also produce 90 million litres of wastewater which they are planning to truck interstate.

I am asking that this EMP be rejected due to the significant impacts is poses to climate, to local biodiversity & to groundwater.

I would like to see this EMP referred to the Environment Protection Agency under the Environment Protection Act for full and thorough assessment given the significant impacts it will have on climate, water and biodiversity.

I hope you will take my concerns into account and will follow the progress of this application closely.

Kind regards
Galina Turker
Marrara, Darwin

Turner, Andrea – Sunday, 14 August 2022 – 16:33:25

Subject	Stop Fracking in the Northern Territory
From	Andrea Turner
Sent	8/14/2022 4:33:25 PM

To Northern Territory Department of Environment, Parks and Water Security

I live in Victoria, but have travelled extensively in the past through the magnificent Northern Territory.
I am making this submission because I am very concerned about Origin's plans to drill 12 new fracking drills on land near Daly Waters.
There is ample scientific evidence of the damage fracking can cause to water tables. Millions of litres of water will be needed for the drilling and fracking process. And millions of litres of toxic wastewater will be produced from the drilling and fracking, which will need to be disposed of safely.

These issues are serious threats to the environment and to local communities.

Traditional Owners believe their concerns about protection of the land and the environment, and risks to the clean water supply essential for their communities are not being given full and proper consideration.

I respectfully request you take these matters into consideration when assessing Origin's application to drill exploratory wells.

Regards

Andrea Turner
2/62 The Parade
Ocean Grove
Victoria 3226

Andrea Turner
****
VIC 3054

Turner, Marko – Sunday, 14 August 2022 – 14:32:59

Subject	Stop the Frack
From	Marko Turner
Sent	8/14/2022 2:32:59 PM

Hello

The NT Government must NOT approve Origin's proposals. You would not only pave the way for fracking and destroy the country - its water and climate - but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory systems.

PLEASE LOOK AT THE DESTRUCTION COMMITTED ACROSS THE USA TO SEE WHAT IS IN STORE.

Morever

WE ARE IN A CLIMATE EMERGENCY: aside from polluting these lands, we should not be pumping the earth with chemicals and releasing ever-more CO2

We are already seeing the impacts of gas expansion across Australia. The Traditional Owners are seeing it, too.

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

NT Government is no longer being wedged by the former and highly corrupt COALition Federal powers. Now is the moment for States and Territories to be concerted in our efforts to restore and save the integrity of our natural environments and to take the urgent measures required to pause climate change.

Regards
Marko Turner

Marko Turner
****
NSW 2032

Turner, Richard – Sunday, 14 August 2022 – 14:50:52

Subject	stop Origins fracking plans
From	Richard Turner
Sent	8/14/2022 2:50:52 PM

Northern Territory Department of Parks and Water Security,
Origin's fracking plans our out of step with good environmental development policy and are an affront to Traditional Owners therefore put a stop to them!

Richard Turner
****
NSW 2483

Turpie, Michelle – Saturday, 13 August 2022 – 17:06:50

Subject	fracking drills in NT - STOP
From	Michelle Turpie
Sent	8/13/2022 5:06:50 PM

Please think again and make positive changes to plans - for our country and our people.

Michelle Turpie
****
NSW 2779

Twohig, Nick – Friday, 12 August 2022 – 07:41:43

Subject	Please do not approve Origin Australia's Environment Management Plans for twelve new exploration wells on the Amungee Mungee pastoral station 50 km east of Daly Waters
From	Nick Twohig
Sent	8/12/2022 7:41:43 AM

Origin Australia plans to open twelve new exploratory fracking wells in the Northern Territory which threaten water, cultural heritage, and our climate. Traditional Owners have been staunchly defending their country against Origin for years.

If the Department of Environment, Parks and Water Security approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Please consider not approving Origin Australia's EMP for twelve new exploration wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Nick Twohig
****
SA 5068

Tychsen, Graeme – Saturday, 13 August 2022 – 19:09:42

Subject	No scope for Origin's fracking
From	Graeme Tychsen
Sent	8/13/2022 7:09:42 PM

Dear NT Government,

At the start of industrial use of fossil power, 280 ppm GHG gave a global temperature of 15, and without, minus 18, to show their potency.

PPM are now above 415 and emissions are still rising.

The supreme and none comes second inscrutable supreme economic body, sentinel for the welfare of the US economy, the US National Oceanic and Atmospheric Administration. of the US Dept of Commerce, no less warns - warnings bind to be heeded - there is no scope for expansion of fossil in any form.

THis is now backed by the International Energy Agency.

It should not require making the point that despite it's brilliance, humankind is far from omnipotent but has allowed its ingenuity to take it to irretrievable disastrous ends.

Stay safe, keep well,

Yours sincerely,

Graeme Tychsen

Graeme Tychsen
****
NSW 2283

Tyler, Len – Thursday, 11 August 2022 – 17:41:07

Subject	midweek101.3fm@iinet.net.au
From	Len Tyler
Sent	8/11/2022 5:41:07 PM

ATTENTION: Origin Energy
Thank you for reading my letter to you.

Why I'm writing is because I am really concerned at your intention to frack land in the Northern Territory, because there can be no guarantees that the remaining water table will remain unadulterated.

We have colossal amounts of gas in this Country and if managed appropriately, it can serve us well and return a good return on your investment, we really cannot afford to create more gas unless there are absolutely inscrutable guarantees that all precautions are abided by and traditional owners are happy with those arrangements.

A better plan would be to extend your influence in renewable energy and methods of storage for it's later use.

I am asking the Department to reject Origin's EMP. Please, don't proceed with this project.

Sincere Regards,
LEN Tyler

Len Tyler
****
QLD 4565

Tyrrell, Nolan – Sunday, 14 August 2022 – 17:24:36

Subject	Stop Origins fracking plans
From	Nolan Tyrrell
Sent	8/14/2022 5:24:36 PM

Northern Territory department of the environment,
I imagine you have heard some good arguments but nothing compelling.
i.e. jobs, and companies prepared to sponsor a government backing their plans.
Neither seriously compares to destruction of the environment though.
You know this.
So what it comes down to is loyalty to a party over loyalty to the planet.
Yes I know it's corny.
But it is true.
Origin energy is a corporation with no loyalty to the environment.
You have no reason to like me.
But I am attempting to be honest.
Thank you
Nolan

Nolan Tyrrell
****
VIC 3444

Tzelil, Canan – Friday, 12 August 2022 – 08:51:33

Subject	Stop Origins Fracking Plan
From	Canan Tzelil
Sent	8/12/2022 8:51:33 AM

Do not frack our land

Canan Tzelil
****
VIC 3175

Uppman, Barry – Saturday, 13 August 2022 – 14:34:06

Subject	Origins plans to frack
From	Barry Uppman
Sent	8/13/2022 2:34:06 PM

RE FRACKING MY NAME IS BARRY UPPMAN RE FRACKING ORIGIN PLANS TO FRACK ON LAND OWNED BY THE ORIGINAL CUSTODIANS OF THIS LAND THEY HAVE STATED THEY DO NOT WANT THIS TO OCCUR THEIR DECISION AND RIGHTS MUST BE ADHERED TO THE RISK IS UNACCEPTABLE

Barry Uppman
****
NT 0810

V, Julie – Saturday, 13 August 2022 – 09:39:01

Subject	Plans for fracking by Origin Energy in NT
From	Julie V
Sent	8/13/2022 9:39:01 AM

To the Northern Territory Department of Parks, Water and Environment:
We MUST do all we can to alleviate pressure on the health of our precious planet. Each of us must do all in our power.
It is in YOUR power to prevent fracking in the territory.
PLEASE do not permit Origin to carry out fracking in your territory.
I want to be able to respect the Northern Territory but if permission is given for this criminal process, then I'm afraid the NT will lose all respect.
PLEASE DON'T LET THIS HAPPEN!
Julie van den Driesen

Julie v
****
VIC 3135

Vagulans, Angela – Friday, 12 August 2022 – 05:27:42

Subject	Stop Origin's fracking plans
From	Angela Vagulans
Sent	8/12/2022 5:27:42 AM

The Northern Territory Department of Environment, Parks and Water Security,
Fracking must cease in all locations. It is always environmental vandalism and also cultural abuse in this context.

Angela Vagulans
****
NSW 2099

Valentine, Christine – Thursday, 11 August 2022 – 21:22:39

Subject	Stop Origin's Fracking Plans
From	Christine Valentine
Sent	8/11/2022 9:22:39 PM

Northern Territory Department of Environment, Parks and Water Security,

I am a senior Australian living in Tasmania and I am appalled at the idea of fracking occurring in our country with so little regard for the life time cost to Australians of fracking and the damage, pollution, and contribution to hastening further climate change which fracking produces. In addition to ignoring the Traditional Owners of this land, the use and contamination of water anywhere in Australia is not acceptable.

The Traditional Owners of the Amungee Mungee country near Daly Waters have not given their permission for fracking of their country.

Origin want to do ‘exploratory’ drilling to frack which isn’t a licence as such but they will sell any gas they find without a licence to sell.

Origin haven’t addressed the full climate impacts and claim that selling the gas will reduce emissions, this is clearly untrue. Mining gas by fracking will cause immense problems which were identified in the Pepper Inquiry, and 135 recommendations were proposed and accepted to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented. But Origin hasn’t completed all of the recommendations. Why not? The agreed recommendations must be enforced. If Origin can’t keep their word to comply with the recommendations, how trustworthy are they? At Australia’s cost!

What is the lifetime cost of any fracking, gas pollution, inability to meet world targets for reducing global warming, use of precious water, production of contaminated water and its disposal, probable damage to country, water and heritage, to Australia? What is the lifetime cost to the Traditional Owners of this country, who haven’t given permission? Too much.

Origin doesn’t have a plan to manage toxic wastewater. This is totally unacceptable. What is the cost to Australian People, country, flora and fauna of Toxic Wastewater?

In the interests of all Australians, I respectfully ask the Department to reject Origin's Environmental Management Plan.

Yours sincerely
Christine Valentine

Christine Valentine
****
TAS 7109

Valpied, Mary – Friday, 12 August 2022 – 15:18:02

Subject	Don't lie to us. Fracking is a dangerous and destructive invasion
From	Mary Valpied
Sent	8/12/2022 3:18:02 PM

Treat our country with respect.

The time of irrevocably destroying nature, which supports life, and causing irreparable damage is in the past.

Stop Fracking by Origin NOW

Mary Valpied
****
VIC 3350

Vanheees, Joanne – Sunday, 14 August 2022 – 20:22:55

Subject	Stop Origin's fracking plans
From	Joanne Vanheees
Sent	8/14/2022 8:22:55 PM

DONT FRACK the NT.
Please respect the traditional owners wishes.
Do not frack our country and risk destroying water and the environment,and adding to climate change.

joanne vanheees
****
NSW 2337

Vasta, Elizabeth – Saturday, 13 August 2022 – 12:59:15

Subject	elizabethvasta@bigpond.com
From	Elizabeth Vasta
Sent	8/13/2022 12:59:15 PM

Australians across the nation are aghast at the idea of any company despoiling the country and its amentiy for local people of the present and for people of the future.

Origin Energy can surely not be doing this before the NT government has approved of the project.

In its deliberations I implore the NT Government to consider its own law, that the restrictions of fracking were lifted IF certain requirements were met. Consider how these have NOT been met.

NT and Australia in general is well endowed with potential for developing recyclable energy projects

Recyclable Energy projects could be productive as soon as fracking projects.

Elizabeth Vasta
****
NSW 2154

Vaughan, Dindy – Thursday, 11 August 2022 – 16:52:59

Subject	No Fracking!!
From	Dindy Vaughan
Sent	8/11/2022 4:52:59 PM

Fracking is utterly destructive to land, climate and water.
We must work to protect all these for our children's future.
Traditional owners rights must be protected!!
Money is the Evil Genius seeking to destroy our world.
As David Mowaljali said : Money is their God!
Say NO to the Apocalypse for all people!

Dindy Vaughan
****
VIC 3136

Vaughan, Geoff – Sunday, 14 August 2022 – 12:16:03

Subject	No to Origin's fracking
From	Geoff Vaughan
Sent	8/14/2022 12:16:03 PM

It's a bit disappointing that I have to keep writing to a supposedly supportive community-focused political party about the disgraceful, climate-destroying practice of gas fracking. You know it is a practice which not only contributes significantly to the ever-increasing problem of global warming, but also threatens artesian water supplies and is contrary to the wishes of our first nations people and how they care for our land.
Remove any Federal government support for the gas-fracking industry and ensure that state and territory governments do the same.
I look forward to a positive response from your party if I am to continue supporting your political agenda. Should that not be the case, there are now independent candidates who offer greater integrity and commitment to an agenda with a better community focus, to which I am very ready to shift my allegiance.

Geoff Vaughan
****
VIC 3088

Vaughan, Hugh – Thursday, 11 August 2022 – 14:27:44

Subject	Stop Origin's fracking plans
From	Hugh Vaughan
Sent	8/11/2022 2:27:44 PM

To the Northern Territory Department of Environment, Parks and Water Security,

My name is Hugh Vaughan and I live in Kenthurst in north-west Sydney. In the last three years my area has been impacted by the 2019/20 east coast fire storm and by four major flood emergencies.

It's beginning to seem as though we are on the frontline of climate change. However, I have been actively campaigning for climate action for many years and I know what we have endured is relatively slight compared to impacts elsewhere and that it is only a taste of what is to come if we do not immediately wean ourselves off fossil fuels.

The IEA and the UN have both clearly stated that any further new fossil fuel projects or infrastructure are utterly incompatible with the Paris goals of keeping global heating to near 1.5 degrees.

This really couldn't be clearer. Origin's NT fracking plans are incompatible with a secure and prosperous future for us here in Australia and for all mankind and for much of the huge diversity of life on this planet. It can't happen. There is simply no justification that makes this right.

For all our sakes, I urge you to reject Origin's plans for fracking in the Northern Territory.

Yours sincerely,
Hugh Vaughan,
Kenthurst NSW.

Hugh Vaughan
****
NSW 2156

Vejo, William – Friday, 12 August 2022 – 19:15:12

Subject	How can you support Origin's fracking plans?
From	William Vejo
Sent	8/12/2022 7:15:12 PM

An approval of Origin's fracking proposals is just what we expect from our corrupt governments.
Set a low emissions target, use dodgy accounting of land clearing to claim credit without doing anything and then supporting and even subsidising ongoing fossil fuel developments.
Such new projects wipe out any gains purported in the lip service given to taking global warming ten times over.
Labor was not voted into government. Preferences from parties who's voters want immediate climate action is what put them there.
The public is not as stupid as you or I thought and I am hopeful the results of the next few elections will show that we have had enough of the disgusting control exercised by those corporations who reward the very criminals who carry out their demands with lucrative positions once they have left office.

Despondently yours
Will

William Vejo
****
SA 5049

Venning, Greg – Thursday, 11 August 2022 – 15:46:39

Subject	Fracking must not be allowed.
From	Greg Venning
Sent	8/11/2022 3:46:39 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

This must stop!

So it's simple — as long as fracking impacts our climate, water, and communities, it cannot be allowed.

Regards

Greg Venning

Greg Venning
****
SA 5093

Verheeg, Mick – Thursday, 11 August 2022 – 17:45:04

Subject	Stop ALL Gas Fracking NOW
From	Mick Verheeg
Sent	8/11/2022 5:45:04 PM

This is a crisis of existence .... ALL Fossil Fuel exploration needs to stop immediately.

You and your children will not be able to live if the damage being done to the climate is not stopped .... isn't it hot enough already???

Origin and all other gas explorers need to wrack off, not frack off .... and they need to do it NOW!

Mick Verheeg
****
VIC 3089

Verita, Issi – Saturday, 13 August 2022 – 15:43:36

Subject	stop allowing fracking in NT
From	Issi Verita
Sent	8/13/2022 3:43:36 PM

Dear humans,
the public have been very clear locally and elsewhere, no one (except a very greedy and ignorant few) wants more fracking in the NT, or any fracking. In fact what are you doing to stop the fracking projects already going on despite our objections?

New drilling and fracking.....? People including the traditional (read actual) owners have clearly rejected this proposal and you have the responsibility to honour this. Origin Energy have no right, and nor do any government officials have any right to desecrate and jeopardise the health of the water and all the lands that depend upon an unpolluted water source for survival.

You must say no, its a no-brainer. The relationship government has with energy companies ought to be illegal. If you have any personal or moral code at all it is an easy decision to prevent any new drilling in the NT. That aside, there are also the consequences of likelihood of re-election at stake, not to mention the laws of Karma and the other natural, immutable and unbreakable laws that you cannot escape by ignorance or any other means short of miracle. I doubt you have accrued that kind of spiritual grace to escape the natural consequences of choosing to knowingly cause harm to others. In case is isnt obvious, polluting the waters of the inner earth can only cause death and harm and well, you know it.

With hope and thanks

Issi Verita

Issi Verita
****
QLD 4552

Vermeersch, Laura – Friday, 12 August 2022 – 14:00:24

Subject	laurakatevermeersch@gmail.com
From	Laura Vermeersch
Sent	8/12/2022 2:00:24 PM

Department of NT Environment, Parks and Water Security,

Please, please, please reject the submission for new fracking wells in the NT.

This will hurt everyone involved be it short-term and local, or long-term and global. Fracking has no place in the NT or in Australia in general. Traditional owners, animals, communities, children and everyone deserves the right to clean water and a healthy climate.

There is a climate emergency and this will fuel it further.

Reject! Reject! Reject!

Laura Vermeersch
****
WA 6051

Vicenzino, Carla – Saturday, 13 August 2022 – 15:35:22

Subject	STOP FRACKING
From	Carla Vicenzino
Sent	8/13/2022 3:35:22 PM

Please don’t destroy more of our water and natural resources, we need to slow the earth to rest. Climate change is a real issue and disturbing the earth is not going help.

Carla Vicenzino
****
QLD 4217

Vidler, David – Sunday, 14 August 2022 – 10:44:11

Subject	Stop Origins F_ _cking Plans in NT
From	David Vidler
Sent	8/14/2022 10:44:11 AM

Where is the justice in overriding Traditional owners position to knockback 12 new fracking wells on country.
It's not a fair go for NT Aborigines who want to protect their water, heritage sites and country when big corporations continue to get their own way with others rights and resources.

david vidler
****
NSW 2533

Vidler, Steven – Thursday, 11 August 2022 – 21:45:58

Subject	Origin planned fracking in NT
From	Steven Vidler
Sent	8/11/2022 9:45:58 PM

Dear NT Department of Environment Parks and Water Security

I heard today about Origin's plans to undertake an astounding 12 exploratory drilling and fracking wells on Amungee Mungee station.

This activity is glaringly at odds with the most fundamental principles of care for the environment - at both a local and global level. Fracking is massively disruptive to local environment, with abundantly well documented damage to country, water and sensitive biodiversity. The chemicals associated with fracking also cause substantial health issues in both workers and local residents, including respiratory conditions and cancers, and most alarmingly significant impacts on infant health.
https://pha.berkeley.edu/2020/12/29/frack-attack-the-impacts-and-response-to-fracking-damage/

There is no benefit from fracking that can justify the sacrifice the well being of children. Indeed, the benefits of fracking are minimal and accrue only to the giant corporation undertaking the fracking. Studies show that fracked gas is marginally profitable - and sometimes not profitable at all. It is at best a small addition to the bottom line of an energy giant. It's a historically poor investment. To make that calculation worse, Origin is NOT 100% Australian owned.
https://www.nationofchange.org/2021/04/26/struggling-to-make-a-profit-fracking-investors-are-searching-for-the-exit/
Gas and oil are not major employers in Australia. In fact they are one of the smaller employers, below even arts. There is NO employment justification for fracking.
https://australiainstitute.org.au/post/fracking-the-future-the-csg-jobs-myth/

These are reasons enough to stop this damaging exploration and rule out fracking in this sensitive and beautiful area of NT. But they are arguable not the worst of the damage caused by fracking. Gas companies argue that Gas creates less CO2 emissions than coal, and is therefore helpful in meeting our emissions reductions targets, complying with the nascent legislation and our international obligations. This is true when you compare only the CO2 emitted when burning either gas or coal to create power. However, this is not the only greenhouse impact of Gas drilling and fracking. Extracting Gas, especially by fracking creates fugitive emissions of gas. This is methane. Methane creates over 80 times MORE atmospheric warming than CO2. A peer reviewed study in Nature science calculated that between 7 and 9% of gas escapes during extraction.
https://www.nature.com/articles/493012a#/references

So while burning gas makes marginally less contribution to disastrous climate change, the act of extracting the gas in reality creates substantially more global warming.

On the basis of objective evidence, there is simply no justification for allowing Origin to explore fracking on Amungee Mungee. Please follow the evidence. And reject this dangerous and damaging proposal.

Dr Steve Vidler PhD

Steven Vidler
****
NSW 2540

Villiers, Louis – Thursday, 11 August 2022 – 14:35:04

Subject	Stop Origin's Fracking Plans
From	Louis De Villiers
Sent	8/11/2022 2:35:04 PM

I am a resident of Fremantle in Western Australia. I practiced law until my retirement while also having been a volunteer in the conservation space where I learnt through many years about various aspects of ecology and the environment. The new Minister for the Environment, Tanya Plibersek, recently released the damning State of the Environment Report which is so shocking that the previous government kept it under wraps for as long as they were able to.

We find ourselves in the midst of an ecological and climate emergency. The alarm bells are ringing ever more loudly and the warning are ever more urgent. Antonio Guterres, Secretary-General of the United Nations is vocal in his calls on the world to stop the production of fossil fuels and to seriously commit to emissions reductions. Scientists who have tended to cautious to speak out too strongly are speaking out more directly as they are increasingly alarmed. The otherwise conservative International Energy Association is clear that we cannot afford to add any more fossil fuel to the mix.

Australia is ideally placed to embrace renewables which would improve planetary and human health while stimulating the economy and innovation and development.

There is no reasonable justification for increasing fossil fuel production in Australia, and most certainly not for the needs of Australia. As it is, Australia exports 77% of its coal and closer to 90% of the gas produced here. Fracking has even more dire impacts on water and land and we still aren't being told what chemicals are being used or produced in these processes. In a country where water is so often a scarce resource and derived from groundwater storage, we cannot afford to further threaten these resources. Fracking is simply not a solution to any of our needs. I am hoping that the new federal government, as it commences the actions so widely demanded by voters, will soon also totally outlaw fracking.

Aboriginal and Torres Strait Islander people have been consistent in resisting the encroachments of companies like Origen on Country. It is time we recognise and respect this voice.

I urge you to listen to the science, to reason and to communities. If we wish to preserve the way of life we've enjoyed on this planet for millennia, we have to better look after the environment and ecosystems.

I ask that you reject Origen's EMP.

In hope.

Louis de Villiers
****
WA 6162

Vincent, J – Monday, 15 August 2022 – 15:26:10

Subject	Stop Origin's fracking plans
From	J Vincent
Sent	8/15/2022 3:26:10 PM

I am a non-indigenous Australian citizen, living in Brisbane, Qld and I am writing to you to ask that you reject Origin's environmental management plan (EMP) regarding fracking in the Northern Territory (NT).

The science that shows the damage done by fracking is settled; there's no maybe about it.

Governments should be actively working to reverse the damage we've collectively done to our environment, not standing idly by and certainly not enabling further damage.

Please reject Origin's EMP.

J Vincent
****
QLD 4034

Vivers, Sam – Friday, 12 August 2022 – 14:28:33

Subject	Please stop Origins Fracking in the NT
From	Sam Vivers
Sent	8/12/2022 2:28:33 PM

The Northern Territory department of Environment.
Please do not allow the fracking for gas that is planned by Origin (and others) in the Northern Territory.
I am concerned for the ecosystems there and for the Indigenous communities.

Kind Regards
Sam

Sam Vivers
****
NSW 2257

Vogt, Sharne – Sunday, 14 August 2022 – 14:43:00

Subject	Halt Origin's fracking plans
From	Sharne Vogt
Sent	8/14/2022 2:43:00 PM

Fracking destroys the environment, pollutes water sources, uses too much water in a country with limited water supplies and with climate change happening all around us, allowing such an activity as fracking, in the same league in terms of destruction as the tar sands, it would be totally irresponsible of your government and a total denial of all the problems well documented and inherent in the fracking process. Thank you for your consideration.

sharne vogt
****
QLD 4272

Vries, Liz – Sunday, 14 August 2022 – 15:01:15

Subject	Stop fracking
From	Liz De Vries
Sent	8/14/2022 3:01:15 PM

Traditional Owners have been staunchly defending their country against Origin for years. They must be supported. All Fracking should cease. Water supply is too valuable to be endangered

Liz de Vries
****
VIC 3215

Vuillermin, Lesley – Sunday, 14 August 2022 – 09:12:45

Subject	Stop Origin's fracking plan
From	Lesley Vuillermin
Sent	8/14/2022 9:12:45 AM

I am an eighty year old woman living in rural Gippsland . People living on the land all over Australia don't want their precious land contaminated by fracking . Land should be preserved for food production , it's cultural value and nature , these are the things we will value into the future . I believe that we don't need more gas , we just need to stop sending so much of it over seas and put the money the government presently spends on propping up the fossil fuel industry into renewables so that we can move away from those polluting industries faster.Please reject Origin's EPM

Lesley Vuillermin
****
VIC 3833

W, Hw – Saturday, 13 August 2022 – 21:32:56

Subject	Submission to stop Origin's fracking plans in the NT
From	Hw W
Sent	8/13/2022 9:32:56 PM

To the Northern Territory
Department of Environment, Parks and Water Security

Dear Madam/Sir,

I am writing to you to ask you in all sincerity to reject Origin's EPM for twelve new exploration wells on the Amungee Mungee pastoral station.
I have informed myself about the impact widespread fracking has on the environment- people, land, water and climate.
Origin's plan to to drill and frack as many as twelve new exploration wells is especially concerning because the consequences of this proposed vast project – gas exploration ultimately leading to gas production - will be immense and devastating on the immediate and wider environment.

I was informed that under this plan, Origin will create a massive carbon footprint of more than 2 million tons of emission! We all know that instead of increasing emissions in the face of climate emergencies, Australia- and worldwide, we need to cut down on pollution and instead opt for clean and renewable energy solutions!
Also, for this project, Origin is estimated to using 430million liters of water from the Gum Ridge Formation. Remote Indigenous communities rely on this water which is at high risk of contamination due to fracking poisoning!
Further, their plan to truck their toxic wastewater interstate is outrageous, who would want to allow this to be dumped in their own backyard?!
Traditional Owners do not want Origin fracking on their land because of the above irreparable damage it will cause.

Origin should make good on their claim of decarbonizing their business by instead of their environmentally devastating drilling and fracking – investing imore clean renewable energy and storage. From organizations such as the United Nations to our local bakery - the shift to a sustainable future is happening now! The vast majority of decent Aussies wish for a clean and healthy future for the sake of generations to come! And the Northern Territory will forever benefit and profit from an undisturbed natural and ancient countryside –but never from a polluted and dead landscape! And what for – Origin's profit?!

Madam/Sir of the Department, I beg you to reject Origin's EMP.

Thank you,
Hedy Wright

Hw W
****
NSW 2450

W, Jenny – Thursday, 11 August 2022 – 18:32:37

Subject	Origin Energy's fracking plans must be stopped immediately
From	Jenny W
Sent	8/11/2022 6:32:37 PM

My name is Jenny McFarland and I live in Alice Springs NT. I am very concerned about Origin Energy's plans to frack across the NT. This is unconscionable on so many levels.
- Fracking will increase emissions past the point where any emissions offset strategies would be able to be used. With the NT already feeling the effects of climate change, reducing emissions immediately is imperative, not adding to them with fracking.
- Traditional owners have consistently said they do not want to risk their water supplies - and the environment that they are responsible for sustaining - by allowing fracking on their country.
- There is a resounding majority of NT residents who do not want fracking, with its many hazards and risks.
- Australia is the driest inhabited continent on Earth, and is among the first to feel the effects of climate change. With the abundance of solar and wind power available in the NT with far fewer emissions and far lower costs, there is no argument for a damaging technology such as fracking to be allowed to go ahead.
- Most of the gas supply sourced in Australia is shipped offshore. There is no allowance for a domestic gas reserve except in WA, so there is zero benefit to Australian communities and industries from fracking.
- Large energy companies avoid paying taxes in Australia, so the risk/benefit ratio of fracking is unacceptably in favour of large companies.

If Origin Energy's current proposal for 12 fracking wells in the Top End is allowed to go ahead, this would set a dangerous precedent for other companies to do the same, exacerbating risks to climate, environment, and water supplies. I strongly urge the NT government to reject Origin's EMP.

Thank you for considering my submission.

Jenny W
****
NT 0870

Waddell, Glenys – Sunday, 14 August 2022 – 16:22:23

Subject	No to Origin's fracking
From	Glenys Waddell
Sent	8/14/2022 4:22:23 PM

Its time to stand with our First Nations people. NO NO NO to fracking their land in the NT
We know the huge dangers of fracking to water and to the climate, TO THE PLANET.And to so much more to country.
Wake up NT, no to short term gain and long time pain
The risks are too great to this dry country and to the world and to the true custodians of this land

Glenys Waddell
****
NSW 2042

Waeger, Ingrid – Thursday, 11 August 2022 – 16:08:50

Subject	Stop Origin's fracking plans.
From	Ingrid Waeger
Sent	8/11/2022 4:08:50 PM

Stop fracking in NT.
The danger to water is too great.
Please listen to public opinion.

Ingrid Waeger
****
NSW 2334

Wai, Pun – Sunday, 14 August 2022 – 17:02:39

Subject	"When exposing a crime is treated as committing a crime, you are being ruled by criminals." - Edward Snowden
From	Pun Ching Adrian Wai
Sent	8/14/2022 5:02:39 PM

"Sustainability is treating ourselves and our environment as if we are to live on this earth forever."

- Arron Wood

Pun Ching Adrian Wai
****
NSW 2067

Walicka, Yola – Sunday, 14 August 2022 – 19:48:21

Subject	Reject Origin's Fracking Plans
From	Yola Walicka
Sent	8/14/2022 7:48:21 PM

Hi

My name is Yola Walicka and I live in Blue Mountains NSW. I have been to Northern Territory a number of times and have very fond memories of an amazing expansive country and local Indigenous people living on it in harmony with it and looking after it from time immemorial. I love the country and would choose it as my preferred holiday destination. I choose not use gas in my household as I do not support the way it is mined and extracted from the land and the impact this extraction is having on the water, land, environment and climate and on the Indigenous population of this country.

I strongly oppose any drilling and fracking for gas in Northern Territory whether for exploration or production as it will affect and pollute the incredibly scarce water resources (Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. They will produce 90 million litres of wastewater which they are planning to truck interstate). They will pollute the land, increase emissions (Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions), they will interfere with natural balance of the land and its people and the habitat. It is our obligation as human beings to look after the country and preserve it for future generations, not destroy it.

I strongly urge Northern Territory government to reject Origins fracking proposal and their Environment Management Plan.

Yola Walicka
****
NSW 2783

Walker, Dave – Saturday, 13 August 2022 – 10:23:22

Subject	Fracking
From	Dave Walker
Sent	8/13/2022 10:23:22 AM

I cannot believe that human beings can be involved in fracturing the earth for mamman. I have seen documentaries of the results depicting damaged water tables and gas being ignited in streams and in water coming from kitchen taps. I understand the indigenous people are against fracking and see perfect reason for a voice to parliament. Please reconsider and stop all efforts to extract gass in this manner. Regards Dave Walker

Dave Walker
****
TAS 7190

Walker, David – Sunday, 14 August 2022 – 06:32:14

Subject	New fracking plans NT
From	David Walker
Sent	8/14/2022 6:32:14 AM

To NT Dept of Parks, Environment & Water Security
Approving more fracking plans in the NT (or anywhere for that matter) is the decision of a dinosaur: it ignores the overwhelming scientific evidence of climate change & runs counter to the welfare and wishes of the people who occupy the land under mining consideration (in this case mostly indigenous Australians). Fracking for gas (apart from the obvious of adding enormously to the greenhouse effect) also directly fouls the region's water systems & environment. Put a halt to such criminal behaviour now! Put your effort into saving the environment rather than screwing it up longterm!

David Walker
****
QLD 4812

Walker, Martyn – Sunday, 14 August 2022 – 16:28:24

Subject	We must stop Origin's fracking plans, before it is too late.
From	Martyn Walker
Sent	8/14/2022 4:28:24 PM

To The Northern Territory Department of Environment, Parks and Water Security.
As a nation, and as citizens of the world we must now stop thinking that we can continue to act like we did, in the past.
We now know so much more about our long term detrimental influence on our planet, and our future generations survival.
It is remiss of us, as an intelligent species, to allow damaging environment fracking projects, like Origin are currently proposing, to proceed. We owe it to our ourselves and future generations to stop it.
Origin should not be investing in these disastrous environmental gas projects. There are so many great and progressive renewable energy alternatives, as they well know.
Short term money grabbing gas projects are not the answer. I plead with you all to recognize this.
Please stop this insane, environmentally disastrous fracking proposal now, and all other such gas fracking proposals, into the future.
Thank you.
Kind regards
Martyn Walker

Martyn Walker
****
NSW 2320

Walker, Tonia – Saturday, 13 August 2022 – 14:17:10

Subject	Stop Origin fracking the NT
From	Tonia Walker
Sent	8/13/2022 2:17:10 PM

Stop Origin's fracking of the NT.
This is WRONG on all issues: ethically, Climate change, land use, environmental risks.
And what's more they use public money and don't pay adequate tax.

Origin doesn't care about Austealua, Australians or our future, they only want profit.

STOP it now because we will fight them and your govt. We do not forget.

Tonia Walker

tonia walker
****
QLD 4574

Wallace, Leone – Friday, 12 August 2022 – 09:57:05

Subject	Stop gas fracking especially in traditional indigenous territories.
From	Leone Wallace
Sent	8/12/2022 9:57:05 AM

Fracking gas is a process that endangers water table supplies and leaves a scar on the landscape apart from the obvious harm to humanity through increasing climate change.
There is no second planet and we are rapidly loosing the capacity to live on this one!

Leone Wallace
****
VIC 3462

Wallace, Maureen – Saturday, 13 August 2022 – 15:50:53

Subject	STOP ORIGINS FRACKING PLANS PLEASE
From	Maureen Wallace
Sent	8/13/2022 3:50:53 PM

I'm Maureen Wallace and I'm writing from Western Australia
Can't believe Origin are continuing with their Fracking plans for NT!!! I honestly thought that had finished with change of Government ??
I fully stand with the Traditional Owners over this dreadful act! Who do Origin think they are that they can just flaunt in and do whatever they want! Frankly I am disgusted and furious by their actions?? Can I please whole heartedly ask the Dept to reject Origins EMP ??????

Maureen Wallace
****
WA 6026

Wallace, Timothy – Saturday, 13 August 2022 – 18:03:31

Subject	Stop Origin's fracking plans
From	Timothy Wallace
Sent	8/13/2022 6:03:31 PM

Dear Northern Territory department of Environment, Parks and Water security,

My name is Tim Wallace from Melbourne, Victoria and I'm writing in regards to Origin planning to open twelve new fracking drills in the Northern Territory.

It is with great sadness that I am writing to you today as the state of the planet is dying and if this plan is approved, it will be another nail in the coffin. It is we the people who suffer the affects of these plans, sacred land destroyed to never return to its original state again. Pillaged for greed at the cost of our planet which is radiply warming and can't take any further damage to it's atmosphere.

Please, for the sake of your children and grandchildren, do not let these plans get approved, not only will these plans destroy local water, cultural heritage and our climate now, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Please ask yourself what is more important, our planet and the air we breathe or more money in greedy corporate pockets?

I'm asking the Department - Please reject Origin's EMP, stop Origin's reckless fracking plans.

Kind regards

Timothy Wallace
****
VIC 3183

Waller, Roxanne – Friday, 12 August 2022 – 14:20:25

Subject	New Fracking Activity in NT
From	Roxanne Waller
Sent	8/12/2022 2:20:25 PM

Good afternoon.

I am saddened to hear that Origin is proceeding with plans to frack new wells in NT prior to receiving offical sanctioned approval, and apparently against the wishes of the traditional owners who live there. These people will be adversely affected by fracking, they receive little if any benefit from the activity; the environment they live in will be irreparably damaged if fracking is permitted to proceed.

Please act to investigate this irregularity. If Origin do not yet have permission to proceed with this activity they should not be setting up in the expectation permission will be granted, or it might be a case of too late.

Thank you.

Roxanne Waller
****
VIC 3350

Wallington, Simone – Thursday, 11 August 2022 – 18:30:25

Subject	Stop Origin fracking the NT
From	Simone Wallington Wallington
Sent	8/11/2022 6:30:25 PM

To the NT Department of Environment, Parks and Water Security,

I am an Australian citizen who cares deeply about the environment and I'm worried about the future we are creating for younger generations. I grew up in the Northern Territory and still feel a connection to that land.

I'm writing to express my concern about Origin Energy's proposal to extend fracking in the Northern Territory. Approving Origin Energy's plans to drill and frack another 12 wells in the Northern Territory will result in extensive damage to the environment, loss of valuable water resources and will contribute to climate change, which is at a critical juncture. Please do NOT approve these plans.

The Traditional Owners have consistently opposed fracking because of the negative impact of their lands. Surely they have a right to have their opinions heard.

If Origin gains approval to conduct exploratory fracking wells near Daly Waters, this will set a precedent for other projects. Furthermore Origin's plans to sell the gas they access through this exploration will result in further gas emissions, not to mention undermining the current process for obtaining a production licence.

On many levels, the proposal to conduct further exploratory fracking is a bad decision. We need to move towards renewable energy faster and not prop up the fossil fuel industry.

Please reject this proposal and any other new fracking projects.

Kind regards,

Simone Wallington

Simone Wallington Wallington
****
NSW 2481

Walpole, Colin – Friday, 12 August 2022 – 20:43:15

Subject	Stop Origins Fracking Plans
From	Colin Walpole
Sent	8/12/2022 8:43:15 PM

I cannot believe that the NT government has allowed fracking to go ahead and when I heard of this I was I believe, quite riteously annoyed! I know the Carpentaria regional biome well having lived in the outback and know its communities because I had to teach their kids for two years while posted to Normanton NWQ and while that job was one of the toughest gigs I have ever done, I came to know that part of Australia very well. It is timeless land that deserves to remain inviolate and free from the NT governments and dare I say, "errant treatment" of its people and its natural resources. I also need to mention that the NT government has had some very bad press down here in SEQ at what it seems is a self interested attitude towards its people and environmental management. I honestly need to know why since I feel you could know and can do far better. Try leaving things alone for once and you will find that the land often cares for itself that is all you have to do, if possible!

Colin Walpole
****
QLD 4350

Walsh, Peter – Saturday, 13 August 2022 – 18:20:59

Subject	Stop Origin's fracking plans.
From	Peter Walsh
Sent	8/13/2022 6:20:59 PM

Hi, it saddens me to be writing this letter in this day and age, that so little credence and respect is shown to this country's Traditional Owners.
My original country country is Scotland, I have been a seafarer all my working life being able to see the folly of many different governments with mining and Fracking.
I now reside in Melbourne Victoria where I understand there's a moratorium on fracking, which I think should be Australia wide, with all states expanding their solar and wind power like most European countries do on land nd in their coastal waters.
Tidal flows being what they are in the NT as battery technology advances, this is a source of energy that won't damage your magnificent Territory.
So I ask you as politely as I can
PLEASE REJECT ORIGIN'S PATHETIC PLAN.
Respectfully yours Peter Walsh

Peter Walsh
****
VIC 3088

Walsh, Tracy – Thursday, 11 August 2022 – 18:32:06

Subject	Stop fracking in N TERRITORY
From	Tracy Walsh
Sent	8/11/2022 6:32:06 PM

Northern Territory Deparment of Land, Water Resource Security, I am Tracy Walsh and I demand that the appropriate actions be enforced to prevent any fracking by Origin and any other company. Fracking is a definite disregard for traditional owners of the land and would damage life giving underground water sources. Impacts on flora and fauna in the territory and people living there deserve more than the known destruction fracking causes. Ban fracking forever.

Tracy Walsh
****
VIC 3305

Walshaw, Margaret – Saturday, 13 August 2022 – 07:21:02

Subject	Stop Origins NT Fracking Plans
From	Margaret Walshaw
Sent	8/13/2022 7:21:02 AM

I am extremely concerned about Origins plan to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Origon want to fast track disastrous gas production without the right license: "Exploratory" means they aren't fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there's gas there (and have all their government approvals), that's when they start the approval process for "production licenses", where they can then sell the gas.

But they're planning to sell the gas from this proposal – even though they don't have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is exponential.
Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

Most of these emissions would be 'scope 3' rather than 'scope 1', meaning Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual GHG emissions of the town of Mparntwe/Alice Springs.
Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate.

They still haven't implemented all the recommendations from the crucial Pepper Inquiry: Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

Given the current state of our Climate, the environmental damage just cannot be allowed to happen!
Please help save our planet and do not allow Origin to frack the Northern Territory.

Margaret Walshaw
****
QLD 4500

Walters, Graeme – Sunday, 14 August 2022 – 21:54:34

Subject	Fracking
From	Graeme Walters
Sent	8/14/2022 9:54:34 PM

Stop fracking in the Northern Territory

Graeme Walters
****
VIC 3149

Walters, Michael – Sunday, 14 August 2022 – 15:26:32

Subject	Stop Origin from further fracking.
From	Michael Walters
Sent	8/14/2022 3:26:32 PM

You saw how much the country voted for climate action in the 2022 federal election. Just stop it.

Michael Walters
****
VIC 3131

Walton-Godwin, Angie – Sunday, 14 August 2022 – 16:08:43

Subject	Do what is right & stop fracking
From	Angie Walton-Godwin
Sent	8/14/2022 4:08:43 PM

To Northern Territory Dept of Environmental Parks and Water Security

As an all time Australian & earth resident, I urge you to look after our earth so that you are not embarrassed to have it ruined rather than saved, on your watch. Please do what you know in your heart is right. You have to the power to save the planet & it's people. Stop ALL fracking plans or we all pay the price.
Thank you in advance.

Angie Walton-Godwin
****
QLD 4170

Wang, Lucy – Thursday, 11 August 2022 – 15:31:32

Subject	Stop Origin's Fracking
From	Lucy Wang
Sent	8/11/2022 3:31:32 PM

I implore you to reconsider allowing Origin to frack over these lands. We are currently in a tenuous time for our country. Our climate policy is horrible, and doing this would further threaten our futures.

Lucy Wang
****
VIC 3125

Warburton, Graham – Sunday, 14 August 2022 – 14:59:15

Subject	Stop the fracking plans
From	Graham Warburton
Sent	8/14/2022 2:59:15 PM

The only reason for you to approve more pollution for the earth would be for your own personal greed.
Don’t do it.

Graham Warburton
****
NSW 2428

Ward, Karen – Saturday, 13 August 2022 – 09:26:54

Subject	karenwardartist@gmail.com
From	Karen Ward
Sent	8/13/2022 9:26:54 AM

Fracking is dangerous in all ways. Stop these leases NOW!

karen ward
****
VIC 3550

Ward, Narelle – Thursday, 11 August 2022 – 14:33:51

Subject	The Origin Ogres
From	Narelle Ward
Sent	8/11/2022 2:33:51 PM

To Whom It may Concern:
Living on the beautiful Central Coast of NSW, I realise I live a long way from the lands of the traditional owners being affected by the proposed Origin plans to explore the area of the Amungee Mungee pastoral station. However, you don't have to live there to recognise the threat this outdated style of energy production poses on the environment and the people of the Territory.
Australians all over want a cleaner and more environmentally friendly solution to the issue and one that does not impact on the ground water supply - one that keeps the profits in our own country and allows us to use sustainable energy projects rather than fracking that is polluting and disregards the wishes of the traditional owners, their history and their connection to the precious earth.
My family and I stand in support of the First Australians who are fighting to keep this debilitating and risky development off the agenda for the Northern Territory's energy solutions.
Thank you,
Narelle Ward & family.

narelle ward
****
NSW 2261

Warda, Randa – Sunday, 14 August 2022 – 08:25:23

Subject	Stop Origin's frackin plans
From	Randa Warda
Sent	8/14/2022 8:25:23 AM

Origin has launched plans for twelve new fracking drills in the Northern Territory.
These new wells pose massive risks to water, cultural heritage, and our climate. Traditional Custodians have been staunchly defending their country against them for years.

But Origin is reckless, and now, instead of listening to the Traditional Custodians and the many communities united behind them, they're doubling down, doing anything they can to bypass proper processes, all without consent.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same, all while undermining the integrity of our regulatory systems.

Origin's plans can't go ahead and the NT government has to represent the interests of the people in the territory and across the country!

I really hope you listen to the many people who are asking you to not approve these plans.
Randa.

Randa Warda
****
NSW 2042

Ware, Evelyn – Friday, 12 August 2022 – 17:21:21

Subject	Requesting Government Support for Traditional Owners in regard to Origin's Fracking Plans.
From	Evelyn Ware
Sent	8/12/2022 5:21:21 PM

I am an 87 year old lady and am horrified at the way in which Origin is planning to go ahead with their plans to open fracking drills in the Northern Territory on Traditional land without the permission of the original owners.

My purpose in writing this letter is to request the government to use their power to prevent this happening.

Evelyn Ware/

Evelyn Ware
****
VIC 3135

Warhurst, Robert – Sunday, 14 August 2022 – 11:20:34

Subject	Prevention of NT Fracking activities
From	Robert Warhurst
Sent	8/14/2022 11:20:34 AM

The Manager, Northern Territory Department of Environment Climate and Water Security. I write to register my objection and concern at the proposed fracking activities of Origin Energy. It astounds me that short term greed blinds the Company's executives to the potential harm to the country that fracking can do, especially to underground water basins. The risks involved are not worth taking especially in view of current world wide climate crises. Please desist.
Regards,
Rob Warhurst.

Robert Warhurst
****
SA 5064

Warleigh, Rita – Sunday, 14 August 2022 – 08:46:33

Subject	Fracking must stop
From	Rita Warleigh
Sent	8/14/2022 8:46:33 AM

To the Northern Territory Department of Environment. Parks and Water Security,

I understand that Origin wants to open twelve new fracking drills in the Northern Territory. These wells will threaten water, cultural heritage, and our climate.

Traditional Owners have been staunchly defending their country against Origin for many years and their voices must be respected.

If the NT Government approves these plans it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please reject Origin's plans.

Your faithfully,
Rita Warleigh

Rita Warleigh
****
NSW 2580

Warnecke, Ana – Saturday, 13 August 2022 – 15:48:05

Subject	arwarnecke@gmail.com
From	Ana Warnecke
Sent	8/13/2022 3:48:05 PM

To the Northern Territory Department of Environment, Parks and Water Security,
Please stop allowing gas fracking projects to destroy country and the water table. You are literally poisoning everyone by accepting money for approval of such projects. It is devastating to the environment and has huge climate impacts.
Can't believe such projects exist, everyone knows the risks and impacts.
Please do the right thing and stop them now, before it is too late.
Sincerely,
Anarchy Warnecke

Ana Warnecke
****
NSW 2119

Warren, Kira – Saturday, 13 August 2022 – 15:31:17

Subject	Stop Origin's Fracking Plans
From	Kira Warren
Sent	8/13/2022 3:31:17 PM

My name is Kira Warren, and I'm writing to you today from Turrbal and Jagera land. I'm passionate about stopping Origin's Franking Plans and implore you to do the same.

My concerns are not limited to the damage from a climate perspective but the nature to which they want to proceed with this project:

- They want to fast track disastrous gas production without the right license
- They haven't accounted for or addressed the full climate impacts
- They want huge amounts of precious water
- They haven't implemented all the recommendations from the crucial Pepper Inquiry

Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

I'm imploring you to confirm you are going to reject Origin's EMP. Remember you are part of this planet, the same of me, please save it for us.

Kira Warren
****
QLD 4032

Warsop, Phil – Sunday, 14 August 2022 – 20:07:06

Subject	Fw: Origin EMP
From	Phil Warsop
Sent	8/14/2022 8:07:06 PM

From: phil warsop
Sent: 14 August 2022 10:33
To: origin.ep98&********** <origin.ep98&**********>
Cc: ********** <**********>
Subject: Origin EMP

Dear Hon. Environment Minister Lauren Moss,

My name is Philip Warsop, I live in NSW, but have spent many years living and working in the NT and frequently travel there and have many connections to the community.
I am writing as I have just come across the EMP submitted by Origin energy, re the Amungee NW Delineation.

I am very concerned and alarmed to discover the proposal to explore in this area which includes devastation of huge areas of important country threatening the biodiversity of the area and the potential destruction of habitat from several threatened and endemic species.

Also, the underhand attempt to push through a plan to allow origin to sell gas on an exploration license is clearly contrary to the rules and would set a dangerous precedent for future projects.

The use of huge volumes of groundwater, and the risk of pollution alone merits a halt to this plan.

I am also concerned about the large volume of greenhouse gas emissions that the project will generate and that will contribute significantly to the NTs annual emissions.

I implore you as the minister to please:

Stop Origin moving on to "production by stealth" by refusing the EMP'

Please refer the entire EMP to the EPA for a full EIS.

I truly hope that you will take my concerns seriously and into account and will closely monitor the applications progress. The NT is a unique and beautiful environment with a rich culture and biodiversity.
It is one of the least spoiled regions in the country and is in real danger of being destroyed forever. We have a responsibilty to the traditional owners to help to protect and care for this country, the frighteningly short-term gains from fracking and over allocation of water resources will lead to permanent damage and loss of habitat and species. It is our responsibility to stop this now before it is too late. What can we gain? a bit of material security for a few years? First nations people lived there for millenia without destroying the country, are we really so arrogant and greedy that we can let it go to ruin and destruction to line our pockets?

Yours Sincerely,

Philip Warsop.
****
****

Waterfield, Dorothy – Friday, 12 August 2022 – 17:46:51

Subject	POLLUTION! - JUST STOP IT!
From	Dorothy Waterfield
Sent	8/12/2022 5:46:51 PM

We all know about fracking - we know how it pollutes the water ways, the air, destroys habitat and burns the planet. You know this too. Don't you have any children? If you don't care about your own lives, think about theirs. It'll be catastrophic! Just stop it!!!

Dorothy Waterfield
****
VIC 3018

Watson, Allan – Sunday, 14 August 2022 – 19:16:38

Subject	Origin's fracking plans
From	Allan Watson
Sent	8/14/2022 7:16:38 PM

To the Northern Territory Department of Environment, Parks and Water Security:
I submit to you that allowing more fracking wells to be sunk in your jurisdiction would entail a serious risk to the integrity of underground water resources.
Allan Watson

Allan Watson
****
WA 6163

Watson, Bruce – Friday, 12 August 2022 – 14:31:26

Subject	Please STOP origin's NT fracking plans
From	Bruce Watson
Sent	8/12/2022 2:31:26 PM

To the NT Government.
Please do not allow any fracking it is way to risky and there is no real long term benefits.
I am from Tweed Heads but i care about our entire nation.
Fracking risks water pollution and toxic gas emissions.

Bruce Watson
****
NSW 2486

Watson, Denise – Monday, 15 August 2022 – 10:51:15

Subject	Stop Origins fracking plans
From	Denise Watson
Sent	8/15/2022 10:51:15 AM

Northern Territory water security parks and wildlife...
What are you thinking allowing fracking to occur after all the information regarding how damaging it is? Get off the fossil fuel approach and get on with renewables. This continent cannot afford to be damaged any longer and we are headed for self destruction...too late when the damage is done. Please rethink this folly.
regards
denise watson

Denise Watson
****
VIC 3931

Watson, Frances – Sunday, 14 August 2022 – 17:09:49

Subject	Stop the Development of New Fracking Drills
From	Frances Watson
Sent	8/14/2022 5:09:49 PM

The Traditional owners of the land have expressed their
objection to the development by Orgin to frack the NT
I am an Australian citizen and I support the effort to save the NT from Fracking Drills

Considering the rate at which Climate Change is impacting on our country and people

Approving the new drills ignores the safety and well being of the whole continent

Frances Watson
****
VIC 3147

Watson, Jeanette – Thursday, 11 August 2022 – 15:22:33

Subject	Stop Origin messing with our lands
From	Jeanette Watson
Sent	8/11/2022 3:22:33 PM

This must not happen, we don't want more of our beautiful country dug up for corporations who'd make the country side ugly for there own benefits.
Please don't let them do this.
Jeanette Watson

Jeanette Watson
****
WA 6160

Watson, Ruth – Thursday, 11 August 2022 – 17:54:28

Subject	Stop Origin's fracking plans
From	Ruth Watson
Sent	8/11/2022 5:54:28 PM

To The Northern Territories Government and it's Agencies,

please do not allow Origin to frack in the NT. The demands of the Indigenous people should be respected. We do not need gas from this land.
Yours sincerely,
Ruth Watson

Ruth Watson
****
WA 6330

Watson, Shirley – Friday, 12 August 2022 – 14:26:35

Subject	Stop Origin's fracking plans
From	Shirley Watson
Sent	8/12/2022 2:26:35 PM

Please do not consent to the fracking plans of Origin. When we need to care for our water, cultural heritage and climate these plans are likely to impinge on all our lives and not help our climate at all. Care for our land and not what we take from it in the short term.

Shirley Watson
****
QLD 4122

Way, Linda – Sunday, 14 August 2022 – 17:39:26

Subject	Dear NT government please stop Origins fracking plans immediately
From	Linda Way
Sent	8/14/2022 5:39:26 PM

Hello my name is Linda and I am a concerned Australian citizen requesting that you stop allowing cultural land to be damaged.
It is incredible to think there is any chance you would allow a company to ruin land owned by all Australians.
I ask for the Department to reject Origin's EMP. If you, the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
I would appreciate confirmation that you will not be going ahead with this disastrous plan.
Yours sincerely

Linda Way
****
QLD 4215

Weaver, Suzanne – Sunday, 14 August 2022 – 21:19:53

Subject	Origins fracking
From	Suzanne Weaver
Sent	8/14/2022 9:19:53 PM

No more environmental vandalism. Can't we be smarter

suzanne weaver
****
SA 5280

Webb, Chris – Friday, 12 August 2022 – 10:07:10

Subject	Stop Origins Fracking plans
From	Chris Webb
Sent	8/12/2022 10:07:10 AM

NT Government stop the crazy Origins fracking plans that will threaten clean water, Cultural heritage and add to climate destruction!

Chris Webb
****
NSW 2541

Weight, John – Saturday, 13 August 2022 – 16:24:33

Subject	Do not allow the Origen fracking to go ahead
From	John Weight
Sent	8/13/2022 4:24:33 PM

Why would the Origen plans be given any consideration when we know that the impact of fracking is so destructive that it has been banned in many countries such as Wales, France and Italy. It is well known that the traditional owners are against the proposal and they have a duty to speak up to defend the land. Further, all Australians should speak up to prevent air and groundwater contamination that can cause fetal development damage, cancer, nervous system and respiratory impairment.

john weight
****
SA 5252

Weir, Kara – Saturday, 13 August 2022 – 14:30:03

Subject	STOP FRACKING WITH OUR SHITT!! = 'Our Island Home..' (C. Anu. Song. -Chrissy Heinz daughter)
From	Kara Weir
Sent	8/13/2022 2:30:03 PM

I do not know what to say!!
STOP N.T.!! Go Back to the way it used to be..
STOP hurting 'MY' home - Planet Place Australia - cos guys.

WE WON'T STOP & hey..

Nb. Karmik Justice Works ??

(I am too educated & experienced in Ecology, Zoology, Evol. Biology & DBL Majors in Psychology & then some to bother wirh 'all that' prose & bureaucracy sooo transparaent & =ALREADY EXPOSED!!!

Keep Us Safe - Marine, Animal, Nature & lastly our Humanity!!

K.J.W & Mr Buddhi Dog ????

??????????????????????

Kara Weir
****
VIC 3910

Welford, Gaye – Saturday, 13 August 2022 – 07:44:37

Subject	Please NO Fracking.
From	Gaye Welford
Sent	8/13/2022 7:44:37 AM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.
This is not the time or the way to reduce emissions and solve the impending climate disaster.
Sincerely Gaye Welford

Gaye Welford
****
VIC 3352

Wellauer, Richard – Saturday, 13 August 2022 – 15:24:25

Subject	Stop Origin's fracking plans
From	Richard Wellauer
Sent	8/13/2022 3:24:25 PM

Dear Northern Territory Department of Environment, Parks, and Water Security,
Please stop Origin's fracking plans. They don't make sense economically or environmentally or culturally. Get some more solar farms going!

Richard Wellauer
****
QLD 4075

Wellman, Moira – Sunday, 14 August 2022 – 14:39:07

Subject	No more fracking
From	Moira Wellman
Sent	8/14/2022 2:39:07 PM

My name is Moira Wellman from Legana Tasmania and I have serious concerns about the ongoing Fracking (ie blasting and wrecking) of Aboriginal Land in the Northern Territory
Enough! Where is the respect for traditional owners?
Where is the respect for irreplaceable clean water sources?
And where is the consideration for climate change?
On election day I had a great deal of success asking voters to support The Greens if they cared about Climate Change. The Bass Liberal candidate is a lone shining beacon in her party as she too has the guts to represent her electorates wishes on this subject. What is not to get about the subject of fracking from any of these perspectives...I remind you respectfully that my concerns are for Traditional land and landscapes, the incredible wastage of precious water in the fracking process, and the whole gas industry affecting the climate .
All to eventually produce gas to no doubt sell overseas.
Enough.
Please reject this proposal and give traditional owners some hope that their special places will not be split apart to make rich companies even wealthier whilst leaving their Aborigioal hearts and land broken.

Moira Wellman
****
TAS 7277

Wells, Jonathan – Sunday, 14 August 2022 – 14:04:06

Subject	stop Origin's reckless fracking plans
From	Jonathan Wells
Sent	8/14/2022 2:04:06 PM

Dear Sir/madam/ Key decision makers,

The NT government need to take strong action against these plans please.

Please stop the NT Government Origin's reckless fracking plans.
If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

jonathan wells
****
NSW 2042

Wells, Simon – Friday, 12 August 2022 – 14:47:22

Subject	Stop Origin's fracking
From	Simon Wells
Sent	8/12/2022 2:47:22 PM

In fact, the NT government should prohibit all fracking.
There are the concerns of traditional Aboriginal owners of the areas affected.
But fracking has been discredited and is being phased out all over the world.
Wake up, NT !!

Simon Wells
****
QLD 4552

Wells, Steve – Sunday, 14 August 2022 – 18:57:32

Subject	Stop Origin's plans to develop new gas projects
From	Steve Wells
Sent	8/14/2022 6:57:32 PM

Submission: Department of Environment, Parks and Water Security

My Name is Stephen Wells and I am a resident of Beenleigh QLD 4207. Ph: ********* 241

I Demand the NT Government stop Origin's reckless gas development plans.

Traditional Owners have been staunchly defending their country against Origin for years and any new Gas project granted is certain to lead to paving the way for Origin to destroy country, water, and our climate, but not just that, it would also be setting a horrifying precedent for other gas corporations to do exactly the same.

Instead of allowing new gas developments on Aboriginal (or any other land in fact) please consider the serious repercussions of exceeding 1.5 degrees C in global warming which any new Coal, Oil or Gas projects will ensure. The world is watching you and your decision on this project and you must make the right decisions to ensure we all survive the coming climate catastrophe.

In short I confirm that I am asking the Department to reject Origin's EMP.

Regards Steve Wells

Steve Wells
****
QLD 4207

Wells, Sylvia – Thursday, 11 August 2022 – 19:41:44

Subject	Fracking plans
From	Sylvia Wells
Sent	8/11/2022 7:41:44 PM

To the Northern Territory Department of Environment, Parks and Water Security

Hello - I am an ordinary Australian who believes in a fair go for everyone and in Traditional Owners having a right to decisions made on their land. I am dismayed that large corporations are given rights without responsibility especially with property that is not theirs and that they have no long term care for except for making a fat pay packet for themselves.
It is with sorrow and disbelief that I have read of Origin's proposal to frack twelve new "exploration" wells. We already know that fracking is bad, that it destroys country, waterways and climates. The American Chemical Society reported that in the United States in a study of just 4 states there were over ********* spills in a 10 year period. (Environ.Sci.Technol 2017, 51, 5, *********). Continually we hear of stories of fracking gone wrong.
To hear that Origin plans to go ahead with this without even considering the 2018 recommendations in the 'Pepper Inquiry' - this despite the fact the the NT moratorium on fracking could only be lifted if it's 135 recommendations were followed.
In a country as dry as ours, what possible sense is there in allowing activity that will use and destroy waterways that are used by people currently living in the region. I understand that Origin expect to produce 90 million litres of wastewater and truck it for disposal interstate. In addition making the emissions scope 3 rather than scope 1 means that Origin do not even have to clean up after themselves.
When we will learn that enough is enough? That we must pursue energy that is safe and fair for everyone and not push headlong into schemes that have already many times over been proven to be so dangerous and damaging.
I urge the NT Environment, Parks and Water Security Dept. to safeguard this area for it's communities, it's unique waterways and ecosystems not just for now but for generations to come. I'm asking you to reject Origins Environment Management Plan because the costs to people, the environment and climate outweigh any advantage that Origin may be able to accumulate for themselves.
Thank you for taking the time to read my submission.
Regards
Sylvia Wells, concerned citizen

Sylvia Wells
****
TAS 7004

Wellsmore, Henry – Saturday, 13 August 2022 – 09:17:09

Subject	Stop Origin fracking
From	Henry Wellsmore
Sent	8/13/2022 9:17:09 AM

To The Northern Territory Dept of Environment, Parks and Water Security.
I write to demand that you reject Origin's plans to frack the Nirthern Territory. If these wells are approved they will continue the degradation of country, water quality and the Australian climate. Water quality in Indigenous areas is big news and has been reported nationally. Climate change is devastating most countries so to increase the fracking of gas is in my opinion, madness. I look forward to the Northern Territory making a sensible decision about Origins plans and rejecting these plans to frack more gas. Thank you

Henry Wellsmore
****
NSW 2283

Wensveen, Meredith – Saturday, 13 August 2022 – 15:01:51

Subject	Deny Origin's Application
From	Meredith Van Wensveen
Sent	8/13/2022 3:01:51 PM

Dear Sir/Madam
I do not routinely write submissions, but I feel very strongly that Origin should not be allowed to frack in the Northern Territory. This sort of work is damaging to Country and clean water supply and is detrimental to climate. It also sets a precedent for other companies to follow suit. We want our children and grandchildren and the generations to come, to be able to enjoy the beautiful Northern Territory. Please stop Origin from destroying Country.

Meredith van Wensveen
****
NSW 2097

Westcott, Bronwyn – Friday, 12 August 2022 – 18:57:22

Subject	fracking has to stop in NT NOW
From	Bronwyn Westcott
Sent	8/12/2022 6:57:22 PM

I write to you to stop any fracking in the NT, since the 1970's reports came out of North American of the damage fracking was doing to communities water, the stability of the land it self(colapses). the local communities have been asking to protect their water as well as the sacret sights with in the fracking process. This had gone on for many years but you are still ignoring the science and your people. Please listen to your people and the land that is under so much pressure.
Bronwyn Westcott
14 Brecon st
Windsor Gardens 5087

Bronwyn Westcott
****
SA 5087

Western, Peter – Friday, 12 August 2022 – 16:54:52

Subject	Origins fracking plans
From	Peter Western
Sent	8/12/2022 4:54:52 PM

I am appalled that origin is determined to risk our water supplies and quality with their fracking plans in the Northern Territory.
To continue to ignore the very real threats, both current and future, in pursuit of short term profit at a time when climate change is already creating ever greater chaos both through fire and floods is totally unacceptable and irresponsible.
This project cannot be allowed to proceed if we are to bequeath a liveable planet to our children.
Peter Western,
8 Park Drive,
LEONGATHA, VIC.

Peter Western
****
VIC 3953

Westman, Lyndall – Saturday, 13 August 2022 – 11:38:12

Subject	Fracking in the Northern Territory
From	Lyndall Westman
Sent	8/13/2022 11:38:12 AM

The traditional owners need to give there approval as well Australia must stop relying on coal and gas if we are to save our world (we can do this if our politicians committed)

Lyndall Westman
****
NSW 2010

Whalley, Paula – Sunday, 14 August 2022 – 18:43:41

Subject	Fracking
From	Paula Whalley
Sent	8/14/2022 6:43:41 PM

The Northern Territory is a truly wonderful place. It is home to a great majority of our First Australians. These people have done so much in trying to preserve this part of our Country. Fracking would interfere with their culture, climate and livelihood. Please stop fracking operations here and in all parts of Australia.

Paula Whalley
****
QLD 4013

Whare, Sue – Thursday, 11 August 2022 – 15:40:10

Subject	Stop Origin's fracking plans
From	Sue Whare
Sent	8/11/2022 3:40:10 PM

I am an Australian very concerned about the future for my children.
I am therefore dismayed to hear that there are plans by Origin to frack in numerous locations in the Northern Territory.
Not only does this put the water supply into jeopardy, it affects the country that means so much to the indigenous people and sets a frightening precedent for other companies to do likewise.
Our futures are at risk and we need to do whatever we can to preserve the natural environment in as pristine a condition as possible. For too long profits have taken precedence over future generations' well-being. It really is time to stop this greed and think of more important, long lasting effects.
Please do not approve these wells. The locals do not want them and we can do without them,
Yours sincerely,
S Whare

Sue Whare
****
NSW 2291

Wheeler, Maggie – Sunday, 14 August 2022 – 14:49:10

Subject	Stop origin tracking the N T
From	Maggie Wheeler
Sent	8/14/2022 2:49:10 PM

No fracking thank you, especially in areas where water can be in short supply and where indigenous people have water rights
Yours sincerely
Maggie wheeler

Maggie Wheeler
****
NSW 2482

Whelan, Helen – Friday, 12 August 2022 – 12:27:06

Subject	Stop Origin's Fracking plans
From	Helen Whelan
Sent	8/12/2022 12:27:06 PM

I believe Fracking in the NT will compromise water availability and also consume waste amounts of water that could be used in agriculture etc
Yours sincerely, Helen Whelan

Helen Whelan
****
NSW 2515

Whitcher, Nathan – Saturday, 13 August 2022 – 08:25:44

Subject	Please stop Origin fracking in the NT
From	Nathan Whitcher
Sent	8/13/2022 8:25:44 AM

To whom it may concern.

My name is Nathan Whitcher and I am writing to express my deep concern about the twelve planned fracking projects planned by Origin Energy in the NT currently under review by your department.

Firstly, it is outrageous that such projects are planned at all in 2022. The world must slow and stop fossil fuel extraction in order to keep global warming below 2°. The consequences of failing to do so will be catastrophic within our lifetime.

In addition, fracking has been shown time and time again to irreparably damage water systems and the ecology of regions they are implemented in.

The above is reason to avoid this method of extraction all together, but in this case the Traditional Owners of the land on which the projects are planned are adamantly and vocally opposed to them. They have consistently voiced their opposition and made submissions to you pooling outlining their reasons.

I call on your department to put a halt to any together exploration and ultimately deny these hideous fracking projects from proceeding. Do not be in the wrong side of this very clear global and very local
environmental and cultural issue.

Thank you.

Nathan Whitcher.

Nathan Whitcher
****
VIC 3058

White, Elizabeth – Saturday, 13 August 2022 – 14:35:47

Subject	Reject Origin's fracking submission
From	Elizabeth White
Sent	8/13/2022 2:35:47 PM

Hello, thank you for reading my submission. My name is Elizabeth White, l have lived and worked in the Northern Territory for over 30 years. My children were born here. I have taught in remote communities, urban and rural schools and special schools. Allowing Origin to frack would be environmentally disastrous. It would also be ignoring the wishes of first nations people who understand the land better than anyone in Origin, whose intentions are primarily profit driven.As the world starts to take action on climate change and works towards phasing out fossil fuels, it is imperative that the NT government join in. To approve the opening of new fracking sites by Origin would be against the wishes of the majority of Territorians and environmentally irresponsible. The results of the recent Federal election have shown that voters are fed up with governments who do not respect their wishes. Please do the right thing by the people, environment and our future and vote no to Origin's proposal.

Elizabeth White
****
NT 0810

White, Ellen – Thursday, 11 August 2022 – 16:19:03

Subject	Defending against Origin's fracking plans. Northern Territory
From	Ellen White
Sent	8/11/2022 4:19:03 PM

I live in the Northern Rivers region, New South Wales. This year we have seen storm events the likes of which have never been seen before. Our local community hall, established in 1907 with its adjacent cottage was flooded to 40cm over its floors. It has never before flooded there. Communities up and down the coast are slowly trying to recover from massive storms. Similarly other communities (and sometimes the same ones) are still in recovery from the disastrous fires of 2019.
It has been readily acknowledged by all credible scientists that rapidly escalating global warming is increasing the strength and likelihood of these disastrous events.
Coal Seam Gas has been identified as a major contributor, not just in its burning as a fuel, but also during fracking, transportation, and distribution.
There is no excuse to continue to expand this industry.

In addition, Indigenous Australians, the real owners of these lands have never ceded their country, the country they have so carefully maintained for tens of thousands of years. It is they who understand the implications for all of us of its destruction.

Please do not approve Origin's irresponsible plans

Yours sincerely
Ellen White

Ellen White
****
NSW 2480

White, Fay – Sunday, 14 August 2022 – 12:44:14

Subject	Plea to ban fracking on traditional custodian's land in Northern Territory immediately
From	Fay White
Sent	8/14/2022 12:44:14 PM

Submission to Environment Minister Lauren Moss, and officials and workers of the Northern Territory Department of Environment, Parks and Water Security.

Dear people,
I'm a fifth generation 73 yr old Australian who has travelled extensively in your beautiful, ancient part of our country and been awed and nourished by its natural wonders and historic stories and art.

I am deeply dismayed by Origin Energy's plans to frack for gas in the Territory, especially when I read of the likely negative environmental and social consequences of proposed 'Exploratory' fracking wells. I am especially alarmed that Origin appears to be willing to to sell gas from these 'Exploratory' wells before they get approved production licences.

I urge you to use every power available to you to return to the ban on fracking , including exploratory licences, especially on traditional lands in your jurisdiction, that you listen with respect to the warnings and wisdom in the call from Traditional Owners to stop this destructive practice. It is clear that fracking will cause irreversible damage to an already delicate country, will hasten pollution and wastage of scarce and precious water for indigenous communities (and also deep underground water): which will threaten unique aspects of cultural heritage and without doubt add another pressure (when the gas is sold and burned) to our already unstable global climate.

Every indicator is sounding a warning. Please take heed. Please do not let greed and short-term gain make you blind to long-term vision and survival.

At the very least, please be strong and diligent in monitoring every aspect of this destructive way of extracting gas to prevent companies - such as Origin and their current plans for Amungee Mungee Pastoral Station - from causing irreversible destruction to people and place and especially to water resources and water security.

Please explore other means of supplying energy to the people in your jurisidiction that do not rape the land in the name of 'progress'. It is not true that selling gas from Australia reduces carbon emissions. It simply passes the buck to the countries that buy and burn the gas and shows a delinquent inability by our nation to take responsibility for our own contribution to destructive climate change.

So I respectfully urge you to carefully consider the effects of the so-called "exploratory" fracking wells that are currently in operation, to prevent fracking companies from over-riding environment safe-guards and to courageously stand firm against the self-interest and push of fracking companies and corporations to speed up their plans.

I ask that you proceed carefully in favour of deep and due diligence, to reject contempt for the ordinary people, and that, while it may be slow, make wise decisions that dutifully protect and respect the land, the history, the people living and the lives of your children and grand-children to come.

For all these reasons, please return to the Pepper Inquiry and implement ALL the 135 recommendations.
Specifically, I urge you NOT to accept Origin Energy's Environment Management Plan as is currently stands.

Yours sincerely, with hope, and with trust in your government's courage and insight and wisdom in this matter.

Fay White
PO Box 23 Castlemaine, Victoria.3450

Fay White
****
VIC 3465

White, Ivan – Monday, 15 August 2022 – 11:40:11

Subject	Reject Origin's Fracking Plans
From	Ivan White
Sent	8/15/2022 11:40:11 AM

The NT Dept of Environment and Water Security
Dear Sir/Madam
I am writing to seek the support of the NT Government in preventing Origin's Energy's fracking drills in the Territory. The practice of fracking, with its long term consequences unknown, poses a significant threat to water sources, the climate and cultural heritage. We must walk softly upon this land of opportunity with great respect for its preservation and indeed survival.
Issues to be considered in regards to the practice of fracking include what has been the international experience in fracking projects, what knowledge has been gained and given the current move away from using fossil fuels as an energy source should fracking initiatives be pursued at all?
We are gaining more knowledge about the incredible natural world we live in each day and therefore the more we should be driven to protect and preserve it. One way of doing this is to deny Origin's fracking plans in the NT.
As a grandfather I am very concerned about what we might be doing now to the environment which will severely impact the lives of those who follow. We must listen to what nature is telling us loudly and clearly right now and fracking is not one of those things.
Thank you

Ivan White
****
NSW 2431

White, Mike – Friday, 12 August 2022 – 18:53:50

Subject	Stop Origin from fracking in the NT
From	Mike White
Sent	8/12/2022 6:53:50 PM

To Nortern Territory Department of Environment Waterand Parks stop the fracking in the NT respect our Original Land owners wishes and their land , stop causing irreversible damage to all our land just so the $$$$ can be sent overseas .

Mike White
****
QLD 4300

White, Pauline – Saturday, 13 August 2022 – 19:31:58

Subject	Please, Stop the Fracking!
From	Pauline White
Sent	8/13/2022 7:31:58 PM

Northern Territory Dept Environment
I have a simple message….just listen to the ‘real’ climate scientists and follow the culturally knowledgeable indigenous community.
We must respect them and protect all of our children’s futures.
Sincerely
Pauline
27a Oxford Street
Mittagong NSW

Pauline White
****
NSW 2575

White, Sue – Saturday, 13 August 2022 – 22:42:08

Subject	Origin plans for fracking in N.T.
From	Sue White
Sent	8/13/2022 10:42:08 PM

To The Northern Territory Parks and
Water Security.
My name is Sue White, I live in Victoria.
I'm writing to you ask you to please protect the N.T. from all fracking plans. These plans will further deplete the land of water which is now an international problem. Australia is always facing droughts and every water source must be protected. Fracking will use vast amounts of precious water and there is also the risk of water contamination.
In a time of seriously seeking reconcilliation with Australias' First Nations their view of fracking and possible destruction of their land should also be taken into account.
I thank-you for your time in reading this appeal. Yours sincerely, Sue White.

Sue White
****
VIC 3880

Whiteley, Sandra – Saturday, 13 August 2022 – 08:07:31

Subject	Fracking has to stop
From	Sandra Whiteley
Sent	8/13/2022 8:07:31 AM

For heaven's sake, stop giving Origin permission to destroy the Northern Territory . Also make them pay some taxes.

Sandra Whiteley
****
TAS 7249

Whiteley, Tim – Thursday, 11 August 2022 – 17:49:26

Subject	Do not Accept Origin's Fracking Proposal
From	Tim Whiteley
Sent	8/11/2022 5:49:26 PM

Dear Northern Territory Government, Department of Environment, Parks and Water security,

I am incensed and outraged that Origin is attempting to frack in our beautiful NT at a time when the world is reeling from environmental disaster after disaster.

Fracking has been proven to be ridiculously toxic to the natural environment, water courses, native flora and fauna and flies in the face of natural land rights for the First Nations peoples and pastoralists of Australia.

Australia has more than enough gas coming from the Timor Sea to supply us for hundreds of years. Why risk polluting water courses and productive land for centuries by opting for fracking. The Americans have learnt a huge lesson from allowing corporations to frack their land. Huge areas are now too toxic for any agriculture for generations and the government has to pay huge subsidies to those fracking companies to keep operating, whilst there is no requirement for those companies to pay for the clean up of the toxic chemicals they pump into the ground and the subsequent pollution they create.

Please learn from their mistakes.

The world is spiralling into environmental and climate disaster after disaster, just as qualified scientists have predicted since the 1970's.
Gas is not the answer, renewables are. It's too late to experiment with shortsighted polluting solutions that are proven to be more costly than renewables.

This will prove to be yet another Juukan Gorge moment where big business ignores proper procedure and steamrolls it's blatant desire for profits over First Nations land rights and the blindingly obvious dangers of fracking to the environment. Do you want to be seen in the same vein as Rio Tinto and the WA state govt?
The NT Government has an obligation to protect the current and ongoing rights of ALL peoples on it's land, not just one bullying corporation.

A short term gain for a few will mean a whole raft of future pain for all peoples of the NT and the whole country, as this project will no doubt set a precedent nationwide.

I urge you in the strongest possible terms to reject Origins EMP for the Amungee Mungee Pastoral Station and all future attempts to frack for gas. Australia and the environment does not need it.

kind regards
Tim Whiteley
Tasmania 7304

tim whiteley
****
TAS 7304

Whitstock, Margaret – Saturday, 13 August 2022 – 08:52:51

Subject	Please stop Origen's plans for fracking on other people's land
From	Margaret Whitstock
Sent	8/13/2022 8:52:51 AM

Please stop Origen's plans for fracking on other people's land.

Margaret Whitstock
****
VIC 3031

Widdup, John – Saturday, 13 August 2022 – 15:23:53

Subject	You must stop the Origin fracking proposal
From	John Widdup
Sent	8/13/2022 3:23:53 PM

If the NT Government approves the plans for Origin to undertake their reckless fracking project, it would alow Origin to frack and destroy country, water, and our climate, and it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Please don not allow the fracking project.
John

John Widdup
****
ACT 2602

Widdup, Lauri – Thursday, 11 August 2022 – 13:39:13

Subject	Stop Origin's Fracking Plans
From	Lauri Widdup
Sent	8/11/2022 1:39:13 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I call on you to stop Origin from drilling and fracking twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

Fracking is a risk to country, water, and climate. If we are to limit the risks of Climate Change, and limit temperature rises to less than 2 degrees (which is becoming more and more unlikely unless plans like these are stopped), big businesses like Origin need to change their climate and country wrecking ways.
The carbon emissions from this project will further risk the liveability of all Australians in this country we love.
Short term plans that produce big profits for businesses like Origin, with negative impacts to the greater population of Australia in the long term, need to stop now. All the profits in the world will do little good when the changes to our climate make living in this beautiful country difficult and dangerous due to the temperature extremes, droughts, floods, bushfires, and mass loss of biodiversity, the effects of which we are already seeing across the country.

Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The NT's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.1

But right now, Origin wants to go ahead with fracking without all recommendations implemented.
For example:
Origin wants to sell this gas without the right permissions and licenses, particularly without a complete scientific baseline assessment of the region (SREBA);
In May this year, Origin's exploration and appraisal manager, Alexander Côté, admitted they have no plan to manage toxic wastewater.2 Now, they're saying they want to truck their wastewater interstate, but also have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.
535,651 tonnes of direct, scope 1 greenhouse gas emissions would be released under Origin's proposal. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs.3 This doesn't even include scope 3 emissions.

And more importantly, Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

If the NT Government approves Origin's EMP, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations like Empire Energy and Tamboran to do exactly the same, all while undermining the integrity of our regulatory system.

I call on your department to reject Origin's plans, and put the future of ALL Australian's front of mind over big business $$$.

Lauri Widdup
****
VIC 3095

Wieland, Annie – Saturday, 13 August 2022 – 08:43:11

Subject	no fracking
From	Annie Wieland
Sent	8/13/2022 8:43:11 AM

There is no reason to support fracking in the NT except corruption. Water is more important.

Annie Wieland
****
NSW 2780

Wijck, Kurt – Saturday, 13 August 2022 – 15:36:05

Subject	stop origin fracking plans.
From	Kurt Van Wijck
Sent	8/13/2022 3:36:05 PM

To whom it might concern,
I am writing to you to not only strongly object to any permission given to any company to frack for gas. but more importantly to understand what you will permit to happen would you allow the likes of Origin to go ahead with their plans to frack for gas in the NT.
1, As you are well aware Gas has many leaking problems and hence not making it so environmentally sound. Two by the time any of this gas comes online the crisis is very likely to be long gone. 3, Northern territory has, if not the best, certainly one of the worlds best solar and wind resources. That will produce revenue to the state coffers likely well before any gas will. 4, it will for certain produce income to the state and its residents for far longer than any gas ever will. 5, renewables also have far greater potential than gas ever will in volume of energy. It also has the potential to be sold in two different forms it being straight electrons and two, in the form of ammonia hence further spreading the risk of not being able to sell your end product. 7, I have not yet even mentioned the very real possibility that knowing what we know today it is not at unlikely that past governments will be sued for negligence related to climate issues! 8, There is great research that states that fracking causes incredible problems with the quality of ground water. Forever!! Not just in the area where solutions to bring the gas to the surface are injected but also where water will be transported to underground! these are problems we can not oversee and over state. and here too, future lawsuits are not only possible but likely, if not probable!
9, (and by now I would like to think you have enough reasons to not permit any fracking of gas) The installation and maintenance or renewable energy offers more job opportunities in to the future than gas ever will. So in short for the sake of jobs, environment, future lawsuits, protection of groundwater (always in short supply in Australia!), What we will tell our grand children, spreading risk and sound financial reasons. please use common sense and stop fracking!

Thank you.
Kurt van Wijck.

Kurt Van wijck
****
VIC 3181

Wijk, Evert – Friday, 12 August 2022 – 14:21:31

Subject	Absolute no fracking please in the Northern Territory.
From	Evert Van Wijk
Sent	8/12/2022 2:21:31 PM

Its is an terrible plan to continue with plans to frack.
Please do not do it, keep Australia as clean as possible the attempts to frack and take the risk of contamination of the nation water supply is shocking for our future generations.
And us all.
Evert van Wijk

Evert van Wijk
****
SA 5159

Wilcox, Angela – Saturday, 13 August 2022 – 15:28:50

Subject	Stop Origin's reckless fracking plans NOW
From	Angela Wilcox
Sent	8/13/2022 3:28:50 PM

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. We must stop this NOW

Angela Wilcox
****
QLD 4870

Wild, Brian – Friday, 12 August 2022 – 15:43:02

Subject	bjwild5@bigpond.com
From	Brian Wild
Sent	8/12/2022 3:43:02 PM

Dear Minister, It is important that all Australians recognise that Fracking has irremediable consequences on our unique and wonderful land. This is the driest inhabited continent on the Earth, and fracking has absolutely permanent, and absolutely irremediable consequences on hydrology and aquifers. Mining companies gain immediate benefits in profits; we Australians must suffer and live with the consequences forever. Please consider the long-term consequences for Australia when evaluating this project, and make a considered decision for the long-term benefit of this country, and reject the application and all similar applications.

Brian Wild
****
NSW 2350

WILD, CYNTHIA – Friday, 12 August 2022 – 21:02:01

Subject	Stop Origin's Fracking Plans
From	CYNTHIA WILD
Sent	8/12/2022 9:02:01 PM

In her book The Metabolic Landscape, Gina Glover has photos of what fracking does to the environment.
1.It turns perfectly good land into oily deserts.
2. with climate change speeding up we should not be prospecting for more fossil fuels
3. Water is Australia's most vital commodity and is already very scarce and fracking requires water.
4. the destruction of First Nation Lands is yet another abuse of imperial power
5. to say that fracking has no effect on the environment is an untruth.
6. The setting of a precedent for other oil hungry companies is almost a certainty if this project is given planning permission
7.I am an ordinary Australian who loves this land with a passion and hates to see the damage we often do to our beautiful land. I have children and grandchildren and feel that we need to do our best to protect the earth from further destruction and damage for future generations. We should be trying to hand our world on to them in a better state than we received it, not a worse one.

CYNTHIA WILD
****

Wild, Llieda – Saturday, 13 August 2022 – 14:55:50

Subject	Save Country from fracking.
From	Llieda Wild
Sent	8/13/2022 2:55:50 PM

If Origin Energy continues to frack on Country I will cancel my involvement, (I have been a customer for many years) and find another supplier of my energy needs. If enough customers do the same maybe Origin will listen. We don't want Fracking on Country. It destroys what's left of our precious habitat and biodiversity. NO FRACKING!!!!

Llieda Wild
****
NSW 2122

Wild, Lyn – Friday, 12 August 2022 – 18:57:20

Subject	Origin must be stopped fracking
From	Lyn Wild
Sent	8/12/2022 6:57:20 PM

Please do what is necessary to protect water quality, country and the climate by banning Origin Energy's fracking plans. It is time to consider other things rather than profit in running Australia. Thank you.

Lyn Wild
****
QLD 4565

Wilkin, Colleen – Sunday, 14 August 2022 – 12:23:30

Subject	Stop ALL fracking planned or in place!
From	Colleen Wilkin
Sent	8/14/2022 12:23:30 PM

Having this week returned from a trip along the Gibb River Road - Broome to Darwin, we have come to a new appreciation of the size and beauty of this land. We note that the Rum Jungle mine site cleanup is still not resolved and with all the scientific and confirmed anecdotal evidence of the harm to waterways fracking can do and with all the evidence of destruction of sacred and just beautiful sites in the NT, how can this government allow fracking to go ahead? There HAS to be other ways of solving energy issues. Let's be clever not lazy about all of this. Please be courageous and vote these projects down.

Colleen Wilkin
****
VIC 3218

Wilkins, Lesley – Sunday, 14 August 2022 – 13:51:09

Subject	Please stop any more Fracking Plans
From	Lesley Wilkins
Sent	8/14/2022 1:51:09 PM

Dear Representative, Northern Territory Government

Having worked with Indigenous adults in the Northern Territory, I have seen first-hand how their wishes have been ignored by both Territory and Federal governments. Enough is enough!

I now live in the Northern Rivers of NSW, very close to Lismore. This new fracking must not go ahead as it is not what the Indigenous citizens want. It is also not what our planet Earth needs right now as we have at last started to battle climate change. Gas fracking contributes to climate change and does nothing to give back clean energy to the planet, and, as my Lismore neighbours well know, climate change has contributed to our record floods earlier this year.

Please do not allow any more gas-fracking in the Territory.

Yours sincerely
Lesley Wilkins
Wyrallah 2480

Lesley Wilkins
****
NSW 2480

Wilkins, Patti – Friday, 12 August 2022 – 14:27:14

Subject	Stand with Traditional Owners to stop fracking in the Beetaloo Basin
From	Patti Wilkins
Sent	8/12/2022 2:27:14 PM

Thank you for the opportunity to put in a submission regarding these plans. Enough is enough, we know we must stop adding more fossil fuel emissions to our environment if we want to stop overreaching 1.5 degrees increase in our climate. The UN and climate scientists have made this quite clear.
We must protect water for indigenous people and future children. We know fracking puts dangerous chemicals into the water source as well as using vast amounts of water needed for our rivers, lake & subsidiaries to remain healthy. This is just one way of the many that it will affect our health.
Please be on the right side of history. It is too late foe regrets when the damage is done. Please disallow any fracking proposals.

Patti Wilkins
****
ACT 2602

Wilkinson, Colin – Sunday, 14 August 2022 – 14:31:00

Subject	Origin Fracking Plan's
From	Colin Wilkinson
Sent	8/14/2022 2:31:00 PM

Northern Territory Department of Environment Parks and Water Safety
To Whom It May Concern
Please be advised that I am opposed to the fracking process used to extract gas. The fracking process uses a range of chemicals that have the potential to contaminate water tables.
Due to the process being high risk other State Governments have banned this process and I believe that the NT Government should also ban the process.
Yours faithfully
Colin Wilkinson
2 Battery Crt
Sunbury Vic 3439
****

Colin Wilkinson
****
VIC 3429

Wilkinson, Peter – Friday, 12 August 2022 – 15:41:39

Subject	Origin Energy Ltd's fracking plans
From	Peter Wilkinson
Sent	8/12/2022 3:41:39 PM

Please do not give Origin Energy Ltd the go-ahead to commence their fracking program. Respect the voice of the Traditional Owners of this land.

Peter Wilkinson
****
VIC 3107

Willbatt, Mervyn – Saturday, 13 August 2022 – 17:05:52

Subject	Unethical & detrimental Fracking Practices
From	Mervyn Willbatt
Sent	8/13/2022 5:05:52 PM

To the Origin Boss's, Ceo's, & all involved in this heinous act of selfish unashamed money grabbing.
The Tribes of the Northern Territory have made their
Voices, opinions, demands well known to the Australian Government & to Origin Energy.

Your blatant disregard for tribal culture & many other cultures that disagree with these practices in Australia, they all do not agree with your environmental destruction of these lands. Look what fracking has done to the Condomine river system. Flames leaping from the water surface in places is a pretty good indicator of what is now in the waters.

The water table is what supplies rivers creeks & lakes. This water has been filtered over many many years & only takes a few uneducated intellectuals to come in & destroy the lot with oils chemicals disrupted sediments that take a long time to resettle. Water is life. "WATER IS LIFE". Many species of birds mammals insects migratory species that come from over seas to mate, depend on these waterways & bushlands.

Green energy will soon be upon us. So fracking at this point in time will get you money for the short term but leave thousands of years evolution destroyed for another couple thousand years & it will no longer be useful to sustain any life. So many species displaced. Put commonsense before the almighty $$$$$. Be the men to say to your children, " WE SAVED THIS PLACE FOR THE CHILDREN OF AUSTRALIA".

Mervyn Willbatt
****
QLD 4570

Williams, Christine – Saturday, 13 August 2022 – 15:45:40

Subject	Stop all fracking
From	Christine Williams
Sent	8/13/2022 3:45:40 PM

Good afternoon,

My name is Christine Williams, I live in Warrandyte, Victoria.

I am horrified that with all the environmental impacts we hear about daily. The pacific islands slowly sinking, extreme floods, extreme bushfires, the melting icecaps, extreme weather world wide you are contemplating allowing new fracking to happen. The world has to stop fracking. Australia has to stop fracking. The Northern Territory has to stop fracking. The potential problems with groundwater, climate change, the precedent it sets, cultural heritage, trust in big business and government, environmental damage, and what is unknown.

I understand that keeping the population safe, healthy, happy is the governments duty of care. I also understand that economics plays a part in running the territory. I don't understand why money is so much more important than human life. DUTY OF CARE to all people not just big business. You and I may not be around to see the outcomes of our negative actions but our great grand children will be. And you can't take the money with you.

Christine Williams

Christine Williams
****
VIC 3113

Williams, John – Sunday, 14 August 2022 – 11:26:43

Subject	Stop Origin's fracking plans
From	John Williams
Sent	8/14/2022 11:26:43 AM

To the Northern Territory Department of Environment Parks and Water Security,
I hereby make a submission this that due to risks to water supply table and destruction to cultural sites that Origin be stopped from their proposed fracking plans

John Williams
****
QLD 4870

Williams, Matt – Friday, 12 August 2022 – 15:00:50

Subject	Keep on Fracking Legends
From	Matt Williams
Sent	8/12/2022 3:00:50 PM

Northern Territory Parks and water, fantastic news hopefully you can fins some great gas reserves and hopefully create some opportunities for our regional areas. Great stuff keep up the hard work. Dont fold to the Left stupidity

Matt Williams
****
NSW 2428

Williams, Mike – Thursday, 11 August 2022 – 13:13:46

Subject	Stop Fracking in the NT
From	Mike Williams
Sent	8/11/2022 1:13:46 PM

We cannot curb dangerous temperature rise in our environment if we continue to burn fossil fuels;
Fracking looks for fossil fuel;
Fracking releases methane;
Fracking endangers vital groundwater supplies, and the health and livelihoods of surrounding communities.
Stop Origin Fracking in the NT.
Stop anyone Fracking in this country.

Mike Williams
****
VIC 3150

Williams, Rick – Friday, 12 August 2022 – 15:11:19

Subject	Fracking must be stopped.
From	Rick Williams
Sent	8/12/2022 3:11:19 PM

Everyone knows that fracking for gas is an environmental disaster and serves no real purpose other than making money for the companies who effectively steal the gas from the rightful owners. No company's profits are worth propounding the climate disaster we are galloping headlong into. Please do not allow fracking to be carried out in the Northern Territory nor in Australia. Anybody who supports this senseless and reckless project shows all of us that they do not care about the future of the world in which we live. They should not be given the right to destroy our environment.

Rick Williams
****
NSW 2582

Williams, Stephanie – Sunday, 14 August 2022 – 16:52:31

Subject	Fracking NOT acceptable on our planet - now or ever again!
From	Stephanie Williams
Sent	8/14/2022 4:52:31 PM

Attention:
Whoever cares ... at the Northern Territory Department of Environment, Parks and Water Security

Every time I hear about plans to further destroy our beautiful planet my heart and soul weep. Is nobody in Government listening to the people? Is that not what you have been elected to do? Why is there so much destruction going on when everything points to the fact that humans are on the WRONG PATH.

What will it take to change your minds? Please tell us for we are at our wits' end to try and get the nessage through to decision makers.

I do not live in Qld. But that matters not a bit. We have onloy one home and I am an incrasingly concerned citizen of one world which is my only home.

Please please please listen to the voices of people like me - but especially to the first peoples of this land who know better than any of us what this will cause in future.

We have seen the results of interfering with nature. It is TIME TO STOP THE MADNESS. Please listen, please please please.

Stephanie Williams
****
NSW 2536

Williams, Tina – Friday, 12 August 2022 – 14:05:15

Subject	Origin's fracking plans are not in the interest of our nation or the Traditional Owners.
From	Tina Williams
Sent	8/12/2022 2:05:15 PM

I am disappointed that the Traditional Owners of the land have not been consulted and their concerns over the destruction of their country, the possible pollution of their water and the effect on climate have not been considered seriously.

Tina Williams
****
ACT 2615

Williams, Tony – Sunday, 14 August 2022 – 21:42:59

Subject	Stop origins fracking plans
From	Tony Williams
Sent	8/14/2022 9:42:59 PM

This is so bad for the planet and the environment & it needs to stop, don't these corporations realise that what they are doing is putting the planet & the environment at risk, !!!!!??

Tony Williams
****
VIC 3195

Willig, Sally – Sunday, 14 August 2022 – 15:53:53

Subject	Say "No" to fracking!
From	Sally Willig
Sent	8/14/2022 3:53:53 PM

To the NT Department of Environment, Parks & Water Security.

The impacts & risks of fracking are enormous & very long term, if not permanent. The benefits are short term & limited to very few people. Fracking also increases our carbon emissions.

Please do not be sucked in by Origin & other fracking companies' promises & the short term increase in revenue, if there is one. The long term costs for our people (present & future), our country & our earth are simply not worth it.

Regards,
Sally Willig

Sally Willig
****
VIC 3816

Willis, Antoinetta – Friday, 12 August 2022 – 14:54:19

Subject	Stop Origin fracking in the NT
From	Antoinetta Willis
Sent	8/12/2022 2:54:19 PM

The Government want to act on climate change, well start here. Stop the destruction of our country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same. Traditional Owners have been defending their country against Origin for years now. You want to act on climate change, stop jetting around the world. What's the Governments carbon footprint. STOP AND THINK

Antoinetta Willis
****
SA 5108

Williss, Anita – Friday, 12 August 2022 – 09:50:11

Subject	Fracking in NT
From	Anita Williss
Sent	8/12/2022 9:50:11 AM

Australia cannot afford to increase emissions by even the smallest amount, the environment and climate is suffering from neglect for many years, much too long. Fracking will be a disaster for the Northern Territory and will only benefit the big organisations, who are lobbying for the right to destroy this unique land. Once it is destroyed there is no going back.

Anita Williss
****
SA 5211

Willmot, Christine – Saturday, 13 August 2022 – 14:21:21

Subject	Stop fracking request
From	Christine Willmot
Sent	8/13/2022 2:21:21 PM

To: Northern Territory Environment Dept
I am writing to express my deep concern at hearing of your plans to develop franking mines in the NT.
This will endanger water and the governments emission control plans - not to mention the integrity of Aboriginal cultural and land rights. And your reason for doing this seems to be about making export money rather than supplying energy to Australian residents.
Please use your money to support and set up renewable energy projects instead.
Thank you
Christine Willmot

Christine willmot
****
NSW 2340

Wills, John – Friday, 12 August 2022 – 16:18:25

Subject	Stop Origin's fracking plans
From	John Wills
Sent	8/12/2022 4:18:25 PM

Fracking for gas has deeply serious environmental implications at every stage of production. To argue otherwise is to falsify or ignore blatantly obvious evidence or to lie outright.
No right minded person could possibly accept this as being practically or morally/ethically correct.
Any government willfully ignoring these facts will be judged harshly by history and at the ballot box.
Please don't allow this destruction to continue
Regards
John Wills

John Wills
****
NSW 2456

Willshire, Lucinda – Friday, 12 August 2022 – 15:42:23

Subject	Stop Origin’s inappropriate behaviour
From	Lucinda Willshire
Sent	8/12/2022 3:42:23 PM

Please don’t frack the NT. We know the facts, these drillings ruin the environment and worsen climate change. The science is clear that we have to stop these activities to help the survival of humanity. It really is that simple. It cannot happen anymore.

Lucinda Willshire
****
VIC 3141

Wilson, Adrian – Saturday, 13 August 2022 – 15:18:55

Subject	Origin Energy's Planned Fracking
From	Adrian & Carole Wilson
Sent	8/13/2022 3:18:55 PM

To the Northern Territory Department of Environment, Parks and Water Security

I am an Australian mother, grandmother and great grandmother, concerned for my family and the future. I am horrified at Origin Energy's plans for 12 new fracking drills in the Amungee Mungee Pastoral Station. Exploratory or not, the emissions created from these wells in addition to the depletion of millions of litres of water required for drilling and the subsequent degradation of land totally belie the very name and aims of your department to foster and protect the environment and natural resources in the Northern Territory. Australia's recent 'unprecedented' fires and floods and the results of the last Federal election indicate that the Australian people want action against climate change not adding to it. To license these wells against the will of the Traditional Owners and undermining our regulatory system will also create a precedent for other mining corporations to further damage our environment, climate and country.

Please reject Origin's Environmental Plan outright.

Thank you for reading my submission

Carole Wilson
36 Roehampton Cr
Mount Eliza, Victoria 3930

Adrian & Carole Wilson
****
VIC 3930

Wilson, Andrea – Saturday, 13 August 2022 – 16:38:31

Subject	Stop origins fraking
From	Andrea Wilson
Sent	8/13/2022 4:38:31 PM

Hi
I like to protest against origins plan to frack anyware in australia.
I look at the climate change distraction all over the world and ask how can anybody think to destroy more of the environment?? There is absolutely no place of any fossil fuels exploration.
The demage we have allready done to the environment all over the world does'nt allow any such distraction anymore.
We had a flooding disaster in Brisbane and if you look at all the creeks and rivers how they look after the heavy rain in febuary , destruction is everywere!!!
I have never seen anything like it Not even after the flooding in 2011.
Last year Germany had a big disaster with flooding. England had 40 degrees this summer . Europe had a heatwave which is still on now. The Glacier brake in italy was the result of the heatwave and in austrias biggest mountain glacier the ice has melted to such an extent , there is only a few hundred meters of ice left and you can clearly hear the gashing of the glacier water .

How much more demage are we intending to do?
We are cutting the branch we are sitting on.
We have to get back to the way we use to live and maybe look at how aboriginies and all native people all over the world use to live in harmony with the environment and stop greed which is the major driver of this stupidity.
We are destroying the future of the next generations.
We can not eat or drink Money!!!!!!!
It is a must and urgent to invest in renewables with no delay!!!

Sincerely yours
Andrea Wilson

Andrea Wilson
****
QLD 4034

Wilson, Barbie – Sunday, 14 August 2022 – 16:22:31

Subject	Stop Origin`s fracking plans
From	Barbie Wilson
Sent	8/14/2022 4:22:31 PM

Northern Territory Dept of Environment, Parks and Water Security.
I am completely horrified by the fact that in the face of powerful science based climate change information you are considering approving fracking plans . We now know we must transition from fossil fuels as quickly as possible and opening new mines is heading in the wrong direction .It is nothing short of a crime against humanity by continuing with this greedy madness
Regards Barbie Wilson

Barbie Wilson
****
VIC 3927

Wilson, Brian – Saturday, 13 August 2022 – 18:14:03

Subject	Origin's plan to frack must not go ahead
From	Brian Wilson
Sent	8/13/2022 6:14:03 PM

To the N.T. Government Environment and Water protection Department.

Origin Energy, or any company must not be allowed to destroy the landscape and water supply and at the same time, produce fossil fuel which will increase catastrophic greenhouse gas emissions both in production and later use. Catastrophic change to the climate is no longer just political debate, it is scientifically proven and it is happening now. As a Government you have the legal and moral responsibility to stop Origin's plans to frack.
Sincerely
Brian Wilson

Brian Wilson
****
QLD 4350

Wilson, Chris – Sunday, 14 August 2022 – 18:33:35

Subject	Stop fracking the NT
From	Chris Wilson
Sent	8/14/2022 6:33:35 PM

There are many pressing reasons why the proposed plans to frack for gas in the NT should not be approved.
1. We are in a climate emergency and to avoid catastrophe we have to find a new way to power our needs. Electricity from renewables shows great promise and Australia has renewable energy sources in spades. We have the opportunity to show leadership to the world to develop a whole new economy.
2. Origin, like many other mining companies, pays no tax. why should we make exploiting our precious resources easy and cheap for them?
3. The land belongs to our First Nations peoples and it is imperative we take note of their requests.
4. Fracking is proven to cause lots of problems for aquifers and uses a lot of precious water in mining and production. It is ironic that a report has just come out revealing how polluted the water is in many remote communities and this development will certainly not improve that picture.
5. Despite our miners having privileged access to our precious resources, we now face huge increases in gas prices and even face national shortages. How is this allowed to happen? There is no guarantee that this development will ease that situation, in fact the greed of these companies will simply increase their tax free profits at the cost of the rest of the Australian community, especially our First Nations peoples who stand to lose a lot more than merely material things.
6. There is huge amounts of evidence that the NT people (and the rest of Australia) do not want projects like this to go ahead. We need to find another way and time is running out.
For God's sake use some decency and common sense and do not allow these criminal projects.
Chris Wilson, renovate area nurse and midwife

Chris Wilson
****
TAS 7112

Wilson, David – Saturday, 13 August 2022 – 14:50:39

Subject	Stop Origin's Fracking Destruction.
From	David Wilson
Sent	8/13/2022 2:50:39 PM

Our country is working hard to repair the damage we have already inflicted on it. Please, no more country and climate wrecking development. Put our resources into fixing our problems not making them worse.
David Wilson.

David Wilson
****
VIC 3913

Wilson, David – Sunday, 14 August 2022 – 12:18:02

Subject	Stop Origin
From	David Wilson
Sent	8/14/2022 12:18:02 PM

Fracking is a bad idea for the environment and the indigenous people of Australia wake up renewable are the future

David Wilson
****
QLD 4078

Wilson, Helen – Saturday, 13 August 2022 – 15:46:28

Subject	wilsonhelen@optusnet.com.au
From	Helen Wilson
Sent	8/13/2022 3:46:28 PM

Northern Territory Government,
Please do not permit fracking of traditional Aboriginal lands near the Carpentaria Highway. Fracking is too dangerous and can have long-term effects on water tables and air quality and communities. Fracking has too many serious environmental impacts on our climate and water. It should not be permitted.

Helen Wilson
****
NSW 2024

Wilson, Janette – Sunday, 14 August 2022 – 08:21:01

Subject	Stop Origin fracking
From	Janette Wilson
Sent	8/14/2022 8:21:01 AM

We need to show some humanity both to the historical owners of the land and the preservation of our land

Janette Wilson
****
VIC 3065

Winchester, Karen – Sunday, 14 August 2022 – 20:43:16

Subject	Stop Origins fracking plans
From	Karen Winchester
Sent	8/14/2022 8:43:16 PM

Fracking is so dangerous to us and our environment. How dare Origin start fracking. We don't want sinkholes appearing everywhere. This country belongs to us not some greedy electricity company. Fracking should NEVER be allowed!

Karen Winchester
****
QLD 4551

Windows, Michael – Sunday, 14 August 2022 – 17:15:05

Subject	Stop Origin's Fracking Plans
From	Michael Windows
Sent	8/14/2022 5:15:05 PM

Are you really going to allow Origin to proceed with this awful practice? Nobody wants it to happen. It's been a disaster for the environment in Canada. All to produce more environmentally damaging oil. It seems Origin has already started their drills. Do they have approval? Do they even need approval? If they have approval, why has it been approved given the local opposition? The local people don't want it, it's not environmentally sound, it uses far too much valuable and scarce water, so we don't need it. Please put a stop to it NOW.

Michael Windows
****
SA 5043

Winter, Bryce – Thursday, 11 August 2022 – 15:50:21

Subject	Origin Fracking plans feedback
From	Bryce Winter
Sent	8/11/2022 3:50:21 PM

To: Northern Territory Department of Environment, Parks and Water Security

My name is Bryce Winter, and I'm writing to request that the department reject Origin's plans for fracking in the Northern Territory.

I have studied the climate science at a university level, and am convinced that new exploration and extraction of fossil fuels is a path that will lead to very bad outcomes for my two young children, and their future offspring.

I therefore encourage you to make the most of your position of authority, and to reject Origin's Environment Management Plan for the twelve new exploration wells east of Daley Waters.

Regards,

Bryce Winter

Bryce Winter
****
SA 5073

Wirther, Jenny – Friday, 12 August 2022 – 14:23:24

Subject	Please reject Origin's EMP
From	Jenny Wirther
Sent	8/12/2022 2:23:24 PM

Attn: Northern Territory Department of Environment, Parks and Water Security.
Hi, I'm a mother of 2 young boys. I am deeply concerned by fracking. The risk to our water supply is too great. It's very difficult to keep fracking contained because the technology is not just like turning a tap on and off.
Let other countries go for fracking, where their environment is already stuffed. Let's be smart and go for renewables.
Please for our kids today and future generations of Aussies, please reject Origin's EMP.

Jenny Wirther
****
NSW 2025

Wisniewski, Stan – Friday, 12 August 2022 – 12:13:02

Subject	Stop fracking, please.
From	Stan Wisniewski
Sent	8/12/2022 12:13:02 PM

I believe we are not told about the chemicals used in fracking , and what the effluent of fluid contains , after it has been subjected to high pressure and temperature. This effluent is stored in sludge dams , in areas that are restricted. If the companies know what the slurry contains they should release the information. Not knowing is an abrogation of responsibility of the miners and the authorities. There are studies that show exposure to fracking, in the USA affects the workers , premature child births, fertility issues and skin problems. Could we have another asbestosis type of problem, where years later the effects of this mining are manifest. ? Please refrain , Stop, for the well being of our community.

Stan Wisniewski
****
WA 6014

Withers, Karen – Friday, 12 August 2022 – 18:02:19

Subject	karen.withers@communities.wa.gov.au
From	Karen Withers
Sent	8/12/2022 6:02:19 PM

Northern Territory Government should not be placing profit over the environment or the people. Fracking is detrimental to the environment and as such the NT government, should be following the will of the people and not proceeding with this.
I am backing traditional owners who are staunchly defending their country from corporations who are not invested in the future of NT and its environment and people

Karen Withers
****
WA 6770

Wood, Cheryl – Thursday, 11 August 2022 – 17:12:51

Subject	Refuse Origin's fracking plans
From	Cheryl Wood
Sent	8/11/2022 5:12:51 PM

Northern Territory Environmental Department

Dear Sir, Madame,

I am very concerned to learn that Origin are hoping to open up new fracking wells in the Northern Territory. This is amazing considering our globe is experiencing such a huge increase in extreme weather events because of the increase in Global green house gas emissions.
There is such potential for solar energy in the Northern territory I can't see why they aren't investing in this area. Instead they are choosing to use precious water, ignore the traditional owners requests not to develop more gas wells etc.
I was with Origin for ten years but I am very glad when I hear such news that I am no longer with them. We must do all we can in Australia to protect our environment, as we have been very negligent over many years.

Yours Sincerely,

Cheryl Wood

cheryl Wood
****
VIC 3150

Wood, Erica – Saturday, 13 August 2022 – 17:41:42

Subject	woodericam@hotmail.com
From	Erica Wood
Sent	8/13/2022 5:41:42 PM

Dear NT Department of Environment, Parks and Water Security

I've heard about Origin's plans for new fracking drills in the NT, and I strongly object to this proposal. Nobody wants more fracking! NOBODY! These plans are contrary to efforts to conserve the environment, and to recognise and conserve Australia's cultural heritage. They are not supported by Traditional Owners or other members of the community.

Erica Wood
****
VIC 3002

Wood, Frances – Saturday, 13 August 2022 – 22:10:57

Subject	Origin must be stopped from fracking in the Northern Territory
From	Frances Wood
Sent	8/13/2022 10:10:57 PM

Dear NT Dept of Environment, Parks & Water Security,

I have just heard (via Traditional Owners using GetUp) that Origin has moved fracking equipment onto 12 sites in advance of approval. The NT's inquiry into hydraulic fracturing identified six key areas for implementation and it seems to me that what Origin is doing is in flagrant breach of at least six of those principles:
Origin is not respecting community and culture. Traditional owners are appalled at what Origin is doing;
Origin is blatantly disregarding the importance of safeguarding water and the environment.
Your department should be outraged at Origin acting in advance of approval when one of the key principles is strengthening regulation;
And its non-compliance with ensuring accountable industry practice is almost laughable, if this weren't such a serious matter.
And that's not even mentioning the effect on climate. Reputable scientists have identified that the Northern Territory is particularly vulnerable to heat-related effects of climate change.

Please stop Origin and the other fracking companies. I doubt that there would be even short term benefits for the Northern Territory and the long term effects are certain to be horrific.

Thank you for your attention.

Frances Wood

Frances Wood
****
VIC 3000

Wood, Glennis – Sunday, 14 August 2022 – 16:05:11

Subject	Origin, stop fracking Country
From	Glennis Wood
Sent	8/14/2022 4:05:11 PM

I am familiar with the land Origin plans to decimate when over almost 30 years I taught secondary students, often on a flyin & out basis. Iam a customer of Origin which encourages Spike Hour to help some consumers, but doesn't care at all about destroying the homeland of others. Put your $ into more research, Origin, & leave Country to showcase what untouched Australian environment was & still can be for future generations.

glennis Wood
****
NSW 2483

Wood, Patricia – Sunday, 14 August 2022 – 16:16:08

Subject	Fracking plans
From	Patricia Wood
Sent	8/14/2022 4:16:08 PM

I am very distressed to hear that despite all the opposition Origin is still determined to go ahead with its fracking without adhering to the conditions laid down. The amount of water needed for this fracking is completely unjustified when Australia is so short of water and the aftermath of fracking is not acceptable. I ask you to very firmly refuse permission for this fracking and to recognise the wishes of the owners of the land.
With thanks Patricia Wood.

Patricia Wood
****
QLD 4551

Wood, Rachel – Friday, 12 August 2022 – 06:25:08

Subject	Stop Origin"s Fracking Plans
From	Rachel Wood
Sent	8/12/2022 6:25:08 AM

I am extremely concerned to hear that Origin plans to frack in the Northern Territory. I understand that we are in a state of flux regarding energy but fracking is not the solution. There is no doubt the energy companies will come in saying that they will manage the environmental effects of their mining but the reality is that will not, and in fact cannot manage the harmful effects of fracking.
I respectfully ask the NT Government to look to the long term future and invest in clean energy rather that the short term profits offered by Origin and other fossil fuel companies.
The Northern Territory is too precious to leave in the hands of people who only want to make money at the expense of the land and it's people.
Kind Regards
Rachel

Rachel Wood
****
NSW 2480

Wood, Robyn – Saturday, 13 August 2022 – 12:29:41

Subject	Stop Origin fracking the Territory
From	Robyn Wood
Sent	8/13/2022 12:29:41 PM

Please listen to Aboriginal people who don't want you to destroy their lands with gas fracking, and STOP more greenhouse gas pollution.

Robyn Wood
****
SA 5093

Wood, Sheralie – Saturday, 13 August 2022 – 14:55:09

Subject	Fracking our Future
From	Sheralie Wood
Sent	8/13/2022 2:55:09 PM

Please do not allow Origin to go ahead with their fracking plans in the Northern Territory. Please consider the impact on the land, the First Nation communities & the water supplies. In this time of climate change we cannot afford to ignore these issues. We don't need more gas to increase climate change. Let Origin instead support alternative power supplies which won't contribute to destroying the future of life on this planet. Please take an ethical stand for our future as a nation & a part of the world community.

Sheralie Wood
****
TAS 7303

Wood, Simon – Thursday, 11 August 2022 – 14:54:04

Subject	Let's stop origin's fracking plans
From	Simon Wood
Sent	8/11/2022 2:54:04 PM

Submission to the NT Dept of Environment, Parks & Water Security:

I write to you as a citizen of the world, a voter in Australia and a former resident of the NT.

Coal Seam Gas is much more costly to our economy than clean energy.
https://www.independent.co.uk/environment/solar-and-wind-power-cheaper-than-fossil-fuels-for-the-first-time-a7509251.html

Why? Because Coal Seam Gas fracking is unsafe, making our water undrinkable and unusable for other household uses or for farming.
https://www.youtube.com/watch?v=b-cC3BXwoMQ

On top of that, Coal Seam Gas adds to climate change, taking us towards a climate apocalypse:

Worse and worse hurricanes, cyclones, floods, droughts and fires. Less and less fresh water. HUGE areas of farmland becoming useless. Wars over water and farmland. Economic crises that will make the Great Depression look like a picnic. 1+ billion climate refugees and mass-migrations, social conflict and migration wars which will dwarf the barbarian invasions that caused the fall of the Roman Empire.
https://www.independent.co.uk/climate-change/news/climate-change-global-warming-refugees-migrants-displacement-lancet-study-a8028341.html

By 2017, climate change had already caused $350 billion economic damage to the USA alone:
https://apnews.com/a40f2858a11b4cd5b2fac9f2556bd1f1

In 2019, in Australia, bushfires, made into mega-fires by climate change, caused $50 million economic damage everyday to Sydney alone:
https://www.smh.com.au/national/nsw/the-economic-cost-of-bushfires-on-sydney-revealed-up-to-50-million-a-day-and-rising-20191212-p53jbq.html

In 2009, climate change was already causing 300,000 deaths every year:
https://www.theguardian.com/environment/2009/may/29/1

Melting permafrost in Arctic threatens $70 trillion climate impact:
https://www.theguardian.com/environment/2019/apr/23/melting-permafrost-in-arctic-will-have-70tn-climate-impact-study

Clean energy is the only safe way to power our economy: e.g. wind, solar, tidal & geo-thermal energy.

Peace,
from Simon Ashworth WOOD,
49 Ormskirk Street,
Calamvale, QLD, 4116

Simon Wood
****
QLD 4116

Woodford, John – Sunday, 14 August 2022 – 16:40:50

Subject	Stop origins fracking plans
From	John Woodford
Sent	8/14/2022 4:40:50 PM

Fracking must not be permitted at all

John Woodford
****
QLD 4500

Woodland, Chris – Friday, 12 August 2022 – 17:45:45

Subject	Origin's fracking intentions.
From	Chris Woodland
Sent	8/12/2022 5:45:45 PM

Northern Territory Department of Environment, Parks and Water Security.
I wish to have my opposition to any fracking in the NT known. It is rarely the First Australians are listened to and this should be the time that it occurs as it is so important to have their water sources in a healthy condition, which cannot be guaranteed with fracking.
I believe that the wishes of all the opponents of fracking in NT should be respected.
Chris Woodland

Chris Woodland
****
NSW 2539

Woodland, Shirley – Friday, 12 August 2022 – 15:27:23

Subject	Do not endorse Origin's fracking plans
From	Shirley Woodland
Sent	8/12/2022 3:27:23 PM

The traditional owners do not need or want Origins fracking on the lands on which they are custodians. I support their decision as the fracking to obtain oil and gas resources, will cause unrepairable damage to the environment and cultural heritage. Destroying waterways (including the parts of the Great Artisan Basin in NT and other subterranean waterways) has non-reversable consequences for the flora and fauna of local ecosystems and in the long run will add to the problems of climate change. Further, gas and oil are out-dated energy sources and should be replaced by renewal energy technologies which Origin should be invested in to benefit humankind. I implore you: let the Traditional Owners continue to care and practise their culture on their lands regenerating their customs and protecting life in all it's forms.

Shirley Woodland
****
NSW 2048

Woodruff, Kathryn – Sunday, 14 August 2022 – 15:32:26

Subject	Origin's Fracking Plans must stop
From	Kathryn Woodruff
Sent	8/14/2022 3:32:26 PM

My name is Kathryn Woodruff. I am a retiree with 4 adult children and a beautiful grandson.
I have been studying fracking world wide for many years and it is understandable that many countries and some Australian States have banned the process because, without rigorous safety regulations, it can poison groundwater, pollute surface water, impair wild landscapes, and threaten wildlife.

Fracking is dangerous for people's health.
Fracking sites release chemicals that can cause severe headaches, asthma symptoms, childhood leukemia, cardiac problems, and birth defects. In addition, many of the 1,000-plus chemicals used in fracking are harmful to human health—some are known to cause cancer. I want my grandson to grow up in a safe Australia.

Fracking can't even be regarded as a "greener" solution than coal.

Fracking releases large amounts of methane, a dangerously potent greenhouse gas. Fracked shale gas wells, for example, may have methane leakage rates as high as 7.9 percent, so which would make such natural gas worse for the climate than coal.

Our First Nations people who have been custodians for our land for 60,000 years and have kept it In pristine condition do not want our country to be fracked.

We should be using green energy to generate power. Fracking for oil in the Northern Territory, goes against the wishes of Traditional Owners, Aboriginal communities and the majority of Territorians. It must be stopped!

Kathryn Woodruff
****
QLD 4740

Woods, Linda – Sunday, 14 August 2022 – 16:01:27

Subject	Stop Origin's fracking plans
From	Linda Woods
Sent	8/14/2022 4:01:27 PM

To whom it may concern in the Northern Territory Department of Environment, Parks&Water Security. I am horrified to hear Origin are planning to cracking anywhere in Australia especially the Northern Territory. It would be another step towards destroying our beautiful country and the lives of our children,grandchildren and future generations. Please consider carefully and recognise the wisdom of the Traditional Owners. Yours sincerely Linda Woods

Linda Woods
****
VIC 3030

Woods, M – Friday, 12 August 2022 – 12:24:24

Subject	Demand the NT Government stop Origin's reckless fracking plans
From	M Woods
Sent	8/12/2022 12:24:24 PM

Origin plans to open twelve new fracking drills in the Northern Territory — wells which threaten water, cultural heritage, and our climate.

And Traditional Owners have been staunchly defending their country against Origin for years.

If the NT Government approves these plans, it would not only be paving the way for Origin to frack and destroy country, water, and our climate, but it would be setting a horrifying precedent for other fracking corporations to do exactly the same.

Please do not allow thus, Meredith

M Woods
****
VIC 3147

Woods, Polly – Friday, 12 August 2022 – 14:36:36

Subject	Reject Origin's fracking plans
From	Polly Woods
Sent	8/12/2022 2:36:36 PM

To the Northern Territory Government Dept. of Environment.
Please reject Origin's plans to open twelve new fracking drills, which at this time of concern about threats to water supply, the environment, and Australia's targets to reduce carbon emission seems a dangerous idea. There is also the fear of damage to cultural heritage. I urge you to reject the proposal. Yours sincerely Polly Woods

Polly Woods
****
VIC 3450

Woolsey, Keith – Sunday, 14 August 2022 – 15:18:50

Subject	Fracking drills in the Northern Territory
From	Keith Woolsey
Sent	8/14/2022 3:18:50 PM

There is no decent scientific or community reasons to open new fossil fuel wells in the Northern Territory, or anywhere else. The planet is in a climate crisis so any new fossil fuel projects should be out of the question.

These companies do all they can to evade taxes, yet we throw subsidies at them and then allow them opportunities to wreck the environment.

Keith Woolsey

Keith Woolsey
****
QLD 4553

Worley, Leticia – Friday, 12 August 2022 – 14:22:15

Subject	Stop Origin fracking plans
From	Leticia Worley
Sent	8/12/2022 2:22:15 PM

Dear Sir/Madam,
Please do not allow Origin to frack and destroy country, water, and our climate. Traditional owners have been living and looking after their country for years, and they would see their unpolluted source of water threatened and the climate for them and all unbearable. If this went ahead, it would also set a precedent for other fracking corporations to do the same....Please do not let this happen!

Sincerely,
Leticia Worley

Leticia Worley
****
VIC 3128

Wormald, Paul – Sunday, 14 August 2022 – 18:53:27

Subject	This Dreadful Development Game of Fracking Must Stop
From	Paul Wormald
Sent	8/14/2022 6:53:27 PM

This wholesale devastating exploitation of the earth's gas & oil deposits laid down 10s of millions of years ago must stop now!

For a quick dollar and a handful of jobs you are allowing big resource companies to destroy our land and its environment. This has no rational basis but greed. Please heed the call of future human generations who will pay for their careless exploitation.

Paul Wormald
****
SA 5019

Worrall, Mark – Saturday, 13 August 2022 – 14:20:09

Subject	Stop Fracking
From	Mark Worrall
Sent	8/13/2022 2:20:09 PM

To the Northern Territory Department of Environment, Parks and Water Security,

I am deeply concerned about the possibility of fracking being undertaken in the Northern Territory. Fracking is a crime against the planet and all creation. The rogue methane emissions from fracking can neither be controlled or monitored and are akin to pushing the fast forward button on climate change. This issue alone should be enough for fracking to be banned world wide as climate change poses the most serious threat to humanity. Other issues include the destruction of groundwater aquifers and pollution of land that can never be remedied. These issues will still be around long after the mining companies have moved on and the money made in government royalties will not come near the cost of repairing the land and aquifers even if that were able to be done. Do something right and proper and don't let fracking go ahead,
Yours sincerely,
Mark Worrall

Mark Worrall
****
NSW 2429

Wright, Carrie – Saturday, 13 August 2022 – 06:20:10

Subject	No more Fracking in NT
From	Carrie Wright
Sent	8/13/2022 6:20:10 AM

As a resident of the A.C.T. and someone that has ceased to use Gas in my home, I strongly urge the NT Government not to accept Origin Energy's proposal to open TWELVE new fracking drills.

This is just so devastating for the environment and will adversely affect the water sources in NT.

We as a Nation have a responsibility to protect our environment and Fracking is damaging the environment

Please reject Origin Energy's proposal

Carrie Wright
****
ACT 2602

Wright, Eloise – Friday, 12 August 2022 – 17:50:36

Subject	Stop Origin's Fracking Plans
From	Eloise Wright
Sent	8/12/2022 5:50:36 PM

To whom it may concern in the Department of Environment, Parks and Water Safety

I'm writing to ask that you do not allow the intended fracking for gas by Origin to go ahead.

The damage to the environment which includes depletion and possible pollution of the region's water supply, damage to the land involved and a further huge contribution to greenhouse emissions that can never be compensated for.
Why go against everything we now know to be true in regard to what needs to be done and what needs to stop in order to protect our environment for the sake of all mankind and every living thing on this earth - the only earth we have.
Not matter how remote the area is that is fracked it still matters - the damage is still the same and will add to the weight of environmental damage across Australia and the world.

Please reject Origin's fracking plan.

Yours sincerely

Eloise Wright

Eloise Wright
****
SA 5250

Wright, Harley – Thursday, 11 August 2022 – 19:21:22

Subject	Stop fracking
From	Harley Wright
Sent	8/11/2022 7:21:22 PM

Northern Territory Department of Conservation, Parks and Water

I am opposed to any new Gaswell developments in Australia because they produce fossil fuel gases which contribute to global warming when burnt. To reign in dangerous climate change we must reduce our greenhouse gas emissions.

Accordingly I'm opposed to all fracking proposals in the Northern Territory.

Dr Harley Wright, senior climate scientist
Following global warming since 1968
20 Victoria Street, Roseville 2069, ********* 450

Harley Wright
****
NSW 2069

Wright, Jackie – Thursday, 11 August 2022 – 18:23:50

Subject	Origin's fracking plans should be stopped
From	Jackie Wright
Sent	8/11/2022 6:23:50 PM

Northern Territory Department of Environment, Parks and Water Security
Hi
In this submission I'm asking you to reject Origin's fracking plans for future wells in the NT. I do this based on environmental and cultural grounds. I'm concerned about water contamination, the amount of water needed and climate impacts of opening new fossil fuel sources when dollars would be better spent on renewable energy sources.
That is why I'm asking that Origin's proposals are rejected.
Yours sincerely
Jackie

Jackie Wright
****
QLD 4521

Wright, Justin – Friday, 12 August 2022 – 14:23:04

Subject	Stop origin from fracking!
From	Justin Wright
Sent	8/12/2022 2:23:04 PM

This has to stop. No more new climate wrecking projects. It has to end!!

Justin Wright
****
NSW 2250

Wright, Maureen – Saturday, 13 August 2022 – 16:44:11

Subject	Reject Origins fracking plans
From	Maureen Wright
Sent	8/13/2022 4:44:11 PM

Northern Territory Department of Environment, Parks and Water Security

The world is in crisis because of fossil fuels. Fossil fuels are the greatest contributor to global warming and climate change. Therefore it makes no sense to continue to expand any new projects relating to fossil fuels. Fracking is potentially the most offensive of these projects as the risk t6 water tables and the environment are huge. The evidence is overwhelming of the risks posed.

Origin's plans to drill twelve new wells in Northern Territory is an environmental threat in every sense. Their Environmental Management Plan cannot guarantee protection of the environment and water table let alone the emissions that gas produces.

As a nation we have a responsibility to the lands of the Traditional Owners and to all Australians to ensure we minimise our carbon output.

The evidence of the destruction caused by fracking is international. Australia can lead the way with renewables and discard the practices of the past which are no longer acceptable.

The EMP proposed by Origin with their application as it fails to meet the standards the Australian public now expect to protect our environment and climate change challenges.

Please reject Origins fracking plans.

Sincerely
Maureen Wright

Maureen Wright
****
NSW 2232

Wright, Michael – Saturday, 13 August 2022 – 16:30:51

Subject	STOP ORIGIN ENERGY'S NT FRACKING PLANS
From	Michael Wright
Sent	8/13/2022 4:30:51 PM

This whole country – in fact the whole world – can no longer afford to extract and use any more natural gas (methane) from the planet. Our future generations' entire existence depends on a drastic reduction in fracking, gas usage and the emission of carbon dioxide (from combustion) and methane (from leakage) into the atmosphere.

Please, please, PLEASE use your powers to forbid this highly damaging fracking plan by Origin.

Michael and Susan Wright
Cammeray, NSW 2062

Michael Wright
****
NSW 2062

Wright, Michaela – Friday, 12 August 2022 – 14:17:32

Subject	Stop Origin's fracking plans.
From	Michaela Wright
Sent	8/12/2022 2:17:32 PM

NORTHERN TERRITORY DEPARTMENT OF THE ENVIRONMENT PARKS AND SECURITY
DEAR Sir, Madam, It is unbelievable that fracking is being considered without the permission of the rightful owners of the land.
That Origin is able to go ahead and do the fracking to the detriment of the land and against the wishes of the local people is horrifying.These people who have lived in the area for generations. Please preserve the land and its people.

Michaela Wright
****
VIC 3922

Wright-Cheah, Paxi – Saturday, 13 August 2022 – 09:46:11

Subject	Stop Origins fracking plans
From	Paxi Wright-Cheah
Sent	8/13/2022 9:46:11 AM

To whom it may concern at the Northern Territory…

My name is Paxi Wright-Cheah. This is my submission in support of First Nations people who are Clearly opposed to Origin Fracking their land.
We need to slow climate change and work to remediate it. Not approve further destructive mining and exploration that will contribute to the disasters that are already affecting Australia. I lost my home in the Lismore floods. So all mining and unsustainable practices have dramatically effected my life and hurt me.
It would be a corrupt (greedy), abuse of power to approve any further fossil fuel projects when a leaders responsibility is to care for the population.

Kind regards,

Paxi

Paxi Wright-Cheah
****
NSW 2480

Wright-Peters, Louise – Thursday, 11 August 2022 – 15:50:40

Subject	Origin is horrible and a disgrace
From	Louise Wright-Peters
Sent	8/11/2022 3:50:40 PM

I strongly object to the proposal and suggest you defer to the natural owners for more.

Louise Wright-Peters
****
NSW 2430

Wu, Sharnie – Friday, 12 August 2022 – 19:20:23

Subject	Stop origins in everybody's fracking plans…
From	Sharnie Wu
Sent	8/12/2022 7:20:23 PM

I'm writing to you to express my strong disapproval and grave concerns about further Fracking in the Northern Territory's without proper process. The current reckless Fracking by Origin Is jeopardising potentially permanently our national cultural and environmental heritage. I personally feel strongly That I do not want to consume gas produced by such destructive processes. I have removed all gas hot water, cooking, barbecue and any gas consuming technologies from my home.
With dire climate change on its way and Australia's bid to lower our carbon footprint dramatically within the next few years, I see no future for new gas or new coal.
We as a nation would be benefiting ourselves and our children Farmor by embracing renewable energy and energy-saving technologies.

I cannot put this strongly enough. I will be voting for managing climate change and environmental issues as a first priority.

Yours faithfully for our common future

Sharnie Wu

Sharnie Wu
****
NSW 2022

Wyatt, Claire – Saturday, 13 August 2022 – 12:54:39

Subject	Origin is helping itself to public resources - where is NTG?
From	Claire Wyatt
Sent	8/13/2022 12:54:39 PM

Dear Environment, Parks and Water Security

I am a long term Darwin resident and lawyer. I am staggered and disheartened to see Origin's fracking plans advancing, with no regard for due process even, let alone the narrow loophole that would allow them to operate IF they protected water and environs.

I stand with Traditional Owners, and climate-minded voters across the country, in calling upon your Department to reject Origin's 'EMP'.

Thank you for your consideration
Claire

Claire Wyatt
****
NT 0820

Wyatt, Ray – Thursday, 11 August 2022 – 19:55:50

Subject	Stop Origin's Fracking Plans
From	Ray Wyatt
Sent	8/11/2022 7:55:50 PM

Why are a few greedy people allowed to damage everyone else's country and water?

Ray Wyatt
****
VIC 3104

Wylie, Sally – Sunday, 14 August 2022 – 22:54:34

Subject	Stop Origins plans to frack the Northern Territory
From	Sally Wylie
Sent	8/14/2022 10:54:34 PM

The Northern Territory Dept of Environment,Parks and Water Security
Origins plans to frack in the Northern Territory are an environmental disaster.They will destroy so much of the beauty and wilderness of the NT. This is the huge tourism attraction of the NT and will only grow in value with th passing of time. It,salvo home to so many indigenous people who have right to live frackfree. And above all ina time of climate change we must leave gas in the ground Origin fracking will destroy country, water and our climate and to allow them to frack will seta dangerous precedent for other fracking corporations. please listen to TraditionalOwners

Sally Wylie
****
WA 6285

Wyner, James – Friday, 12 August 2022 – 17:31:58

Subject	Please stop fracking in Carpentaria
From	James Wyner
Sent	8/12/2022 5:31:58 PM

Hi,

My name is James. My family has a long history in the Carpentaria region around Daly Waters. It would be tragic to see this historical and spiritual area de-spoiled by fracking sites.

Even more sad is that Origin seek to extract our resources for profit and will return nothing back to the local people or the Australian people at large. This project will add further to the climate disaster unfolding before us.

Please reject Origin's EMP

Thank You

james wyner
****
NSW 2204

Wynne, David – Friday, 12 August 2022 – 19:14:02

Subject	Stop Origin's Fracking Plans
From	David Wynne
Sent	8/12/2022 7:14:02 PM

To the Northern Territory Department of Environment, Parks and Water Security:
Origin's plans to open 12 new fracking drills in the Northern Territory show blatant disregard for public health and safety. The expansion of fossil fuels through these wells threatens public health and safety by further destroying country, water, and our climate. What could be more destructive? All of us lose - Traditional Owners and the rest of us, because any short-term financial gains for people involved with Origin will be far outweighed by long-term costs for everyone including Origin's owners and employees.
It is high time that companies still spruiking for oil and gas expansion were prevented from carrying out their plans. They cannot continue to be dishonest and willfully insensitive to the harm they are causing by downplaying the destructiveness of the outcomes.
Relevant governments and departments can prevent Origin's plans from becoming realised. Hence my submission to you as the relevant department that should be standing up for the public good.
Yours sincerely,
David N. Wynne

David Wynne
****
WA 6054

Wynne-Jones, Megan – Thursday, 11 August 2022 – 16:08:27

Subject	No more fracking, no to Origin.
From	Megan Wynne-Jones
Sent	8/11/2022 4:08:27 PM

To the Northern Territory Department of Environment, Parks and water security

I am writing to express my concern that Origin Energy have applied to drill and frack twelve new "exploration" wells on the Amungee Mungee pastoral station 50 km east of Daly Waters.

As you are well aware, fracking is a major risk to country, water, and climate. Origin are claiming that by selling gas, they will reduce emissions which is blatantly untrue. – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon footprint of over 2 million tonnes of emissions.

They also want huge amounts of precious water: Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water.

They will also produce 90 million litres of wastewater which they are planning to truck interstate without any plans to manage it putting at risk the water supplies that First Nations communities rely on.

Traditional Owners do not want Origin fracking on their land because of the risks to water, country, and cultural heritage.

The approval of this disastrous proposal would be a horrifying precedent, destroying country, water and our climate.

I am asking you to reject Origin's EMP. We need to make a transition to renewable energy as fast as possible. Fracking is not the way forward.

yours sincerely

Megan Wynne-Jones
****
NSW 2482

Yarr, Norman – Saturday, 13 August 2022 – 15:04:26

Subject	Origin"s current application
From	Norman Yarr
Sent	8/13/2022 3:04:26 PM

By allowing more fracking you mar receive increased royalties but countries all over the world are paying our much more money to partly mitigate the damage caused by the climate changes that have already damaged our atmosphere. Common sense says 'no more fossil fuels' Norman &Jeanette Yarr Port Douglas Nth Qld

Norman Yarr
****
QLD 4877

Yaxley, Gerard – Sunday, 14 August 2022 – 16:36:53

Subject	stop fracking NT
From	Gerard Yaxley
Sent	8/14/2022 4:36:53 PM

Fracking is a destructive water wasting practice which scars country beyond remediation. Please respect the traditional owners by rejecting Origin's plan which will ultimately destroy any hope of Australia achieving our climate goals.

Gerard Yaxley
****
TAS 7000

Yeates, Jean – Saturday, 13 August 2022 – 15:32:12

Subject	Stop Origin fracking in any area
From	Jean Yeates
Sent	8/13/2022 3:32:12 PM

I feel so sad that I even have to write and plead that you do not allow fracking in these areas by Origin.
If you love Australia and our way of life please Stop i! It is crazy and regrets will be enormous Jean Yeates

Jean Yeates
****
WA 6530

Youlden, Patricia – Sunday, 14 August 2022 – 15:54:07

Subject	Origin's Fracking Plans
From	Patricia Youlden
Sent	8/14/2022 3:54:07 PM

The appalling effects of fracking upon the aquifer are well documented. It can poison groundwater, pollute surface water, impair wild landscapes, and threaten wildlife.
Please heed the demands of the Traditional Owners. They KNOW this country. They RESPECT this country.

Patricia Youlden
****
NSW 2011

Young, Bruce – Saturday, 13 August 2022 – 12:05:59

Subject	Fracking - you have to listen to those that say no.
From	Bruce Young
Sent	8/13/2022 12:05:59 PM

There can be no question that gas has been an enormous resource over many years in Australia. And you can obviously see the benefit from the high overseas prices.
But the problem you face is that using Fracking techniques to obtain gas have a number of obvious and significant risks associated with it. In the NT it would be obvious to me that the inherent risk of damage and or pollution to underground water would be enough for me. And I really believe that companies like Origin would be unwilling to shell out millions of dollars for what is potentially hundreds of years due to an "accident". That to me is the fundamental issue here. Water is required for the life of all. Without it, we all die. In my review of many published positions on this they consistently fail to accurately map out the potential risks. Whilst the damage has to date not resulted in widespread devastation, burning water is scary "https://www.youtube.com/watch?v=NvJAKVnK4qM". Do we want to make this more common across the NT? I don't think so.
From my perspective, you need to change the mindset. It needs to be why should we, rather than what I understand you are proceeding with and that is why shouldn't we.

Bruce Young
****
QLD 4701

Young, Darryn – Monday, 15 August 2022 – 08:03:02

Subject	Please stop Fracking plans in the NT
From	Darryn Young
Sent	8/15/2022 8:03:02 AM

Fracking increases emissions, and we need to reduce our emissions, so fracking should not be allowed.

Society won't move forward until we stop taking backward steps.

Darryn Young
****
NSW 2326

Young, Dorothy – Saturday, 13 August 2022 – 19:29:57

Subject	Stop the Fracking!
From	Dorothy Young
Sent	8/13/2022 7:29:57 PM

Fracking has ruined water tables across the USA. We should not be doing it in Australia unless you want us to eventually have to import our food instead of growing it. There are already many fracking sites in Queensland which is Labor governed. Don't ruin our country by pursuing this destructive practice if you care about this country.

Dorothy Young
****
NSW 2702

Young, Jo – Sunday, 14 August 2022 – 11:09:44

Subject	STOP FRACKING FOR ALL TIME!!!
From	Jo Young
Sent	8/14/2022 11:09:44 AM

Northern Territory Department of Environment, Parks and Water Security,
Dear Sir/Madam

My name is Josephine Young and I live in the Southern HIghlands of NSW. Although I am not in the Northern Territory, all of Australia will be adversely affected by what Origin is aiming to do to the country that you are responsible for. You can stop it !!!!

Fracking will ruin the area and the country in which Origin is pushing the limits to open, not one but TWELVE new fracking drills in your jurisdiction. It will not only spoil the country but will destroy water, affect our climate and go completely against the wishes of the owners, the Traditional Owners. It is past time to pay attention to the real owners of this area and give them the justice they deserve, not setting a horrifying precedent for other fracking corporations to do exactly the same.

We, in Australia, are all in this together and the effect these wells, wherever they are in Australia, will exacerbate the rate of climate change which will in the end affect all of us, even you.

Below is a statement from one of the Traditional Owners of the area where Origin is seeking to open these destructive wells.

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land."
– Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

Please pay heed to the reckless idea of Origin by listening to the Traditional Owners and people like me who are concerned with all the problems that will ensue and decide that the Department MUST reject Origin's EMP.

Yours in hope
Josephine Young

Jo Young
****
NSW 2578

Yudaeff, Lorraine – Friday, 12 August 2022 – 16:14:33

Subject	Fracking is extremely risky
From	Lorraine Yudaeff
Sent	8/12/2022 4:14:33 PM

The Northern Territory Government.
Climate change is real & is increasingly affecting the people of Australia & the world.
I am so tired of promises by fracking proponents they they will reduce pollution & global heating. There is plentiful evidence that fracking is risky for the underlying aquifers, contaminates ground water resources, & that escaping methane has a worse effect on global heating than CO2. Please reject Origin's plans.

Lorraine Yudaeff
****
NSW 2295

Yule, Ian – Sunday, 14 August 2022 – 11:33:16

Subject	Stop fracking!
From	Ian Yule
Sent	8/14/2022 11:33:16 AM

Dear Environment Minister.
Please look after the environment by stopping Origin's plans to frack in the NT. This should be your prime directive. Traditional Aboriginal owners have been doing your job well for thousands of years, so it would be worth your while to listen to them. I lived in the NT for many years and found they were a font of wisdom. They know their country! Please stop the fracking on their land!!
Thank you for your attention.
yours sincerely,
Ian R. Yule MACE

Ian Yule
****
VIC 3219

Yule, Sandy – Saturday, 13 August 2022 – 14:20:20

Subject	Fracking
From	Sandy Yule
Sent	8/13/2022 2:20:20 PM

We have just now heard of many remote communities whose water is contaminated above safe levels.
Fracking has the capacity to destroy aquifers, with very little chance of planned amelioration.
Please listen to the concerns of First Nations people who do not want fracking on their land.
Apparently Origin Energy has decided not to listen to their voices.
It is time that we turned away from thinking that fossil fuels are the only way to go.
Please reject all proposals for fracking on land where the traditional owners are opposed.

Sandy Yule
****
VIC 3000

Zajkowska, Jolanta – Saturday, 13 August 2022 – 15:44:14

Subject	Stop origin's fracking plans
From	Jolanta Zajkowska
Sent	8/13/2022 3:44:14 PM

Stop origin's fracking plans

Jolanta Zajkowska
****
NSW 2489

Zan, Andos – Sunday, 14 August 2022 – 16:29:02

Subject	Please Stop Origins Fracking Plans!
From	Andos Zan
Sent	8/14/2022 4:29:02 PM

To Whom it may concern,
Hi, My name is Andos Zan from Tascott NSW.
I am concerned about Origin's Fracking plans. This is not our Future! Please respect the Traditional Owners wishes!
Renewable Energy with Solar and Wind is the Appropriate way forward, with No Pollution!
Warmest Regards
Andos Zan

Andos Zan
****
NSW 2250

Zanker, Deidre – Friday, 12 August 2022 – 14:31:54

Subject	Stop all Fracking
From	Deidre Zanker
Sent	8/12/2022 2:31:54 PM

The planet is burning, crops are dying, water is evaporating and being wasted as fossil fuel extraction. This uses massive amounts of water which is a lifeline needed to keep sustain all living things, people, animals, plants.
No more fracking or fossil fuel extraction or human life on this planet will become extinct.

Deidre Zanker
****
SA 5098

Zaskolny, Karen – Sunday, 14 August 2022 – 17:40:51

Subject	Stop Origin's Fracking plans
From	Karen Zaskolny
Sent	8/14/2022 5:40:51 PM

Attention NT Dept of Environment, Parks and Water Security,

Dear Sir/Madam, I am writing to you to add my name to the request that you do not approve Origin's plans to frack and destroy country, water and our climate.

I have been an Origin shareholder for a number of years but I am so appalled at their continuing disrespect of land, water and health of people, especially the Indigenous communities that I am getting rid of the shares. I never wish to see the name Origin in my inbox again.

Please stop Origin and protect country.

Thankyou for your time,
Karen Zaskolny

Karen Zaskolny
****
SA 5048

Zegenhagen, Kim – Thursday, 11 August 2022 – 15:30:54

Subject	Immediately stop all new fracking plans by Origin.
From	Kim Zegenhagen
Sent	8/11/2022 3:30:54 PM

The Minister,
Northern Territory Department of Environment, Parks and Water Security,
My Name is Kim Zegenhaghen. I live in NSW and I haev frequently visited the Northern Territory as a tourist in teh past few years. I am very concerned about Origin's fracking plans in the NT.
Time and again in both Australia and overseas fracking has proven to be an appalling method of fossil fuel extraction which is devasting to the environment and local communites. It also has devasting effects on farm land and water tables. It would be a tragedy now and for future generations if Origin's plans were allowed to proceed.
The only ovbvious alternative is to promote renewable energy in the NT and cease any new fossil fule project approvals.
In short I am asking you, for the sake of all Australians to reject Origin's EMP.

Yours sincerely,
Kim Zegenhagen,
Bowral, NSW, 2576.

Kim Zegenhagen
****
NSW 2576

Zhulan, Lorna – Friday, 12 August 2022 – 17:02:06

Subject	Stop Origin's fracking plans
From	Lorna Zhulan
Sent	8/12/2022 5:02:06 PM

Please listen to the original owners of the land your government controls. They have never agreed to having their ancestral lands destroyed by fracking. Please listen to us as well. I am one of many citizens very concerned about what fracking will do to the land which really belongs to all of us, not to a few powerful businesses who will benefit from this arrogant action and who apparently don't care about this land and its future.

Lorna Zhulan
****
NSW 2550

Ziegler, John – Saturday, 13 August 2022 – 14:30:44

Subject	Fracking = madness
From	John Ziegler
Sent	8/13/2022 2:30:44 PM

Fracking could only be contemplated by people who don't have or don't want grandchildren.

Fracking seems a way to damage the local and global environment simultaneously to produce greenhouse gas emitters probably at greater direct cost than renewables.

It's frankly madness pursuing selfish short term profit at incalculable long term cost.

We know that the responsible industry has deep pockets employing lobbyists and using other means. Of course this is because the facts only won't justify the activity so propaganda, advertising, lobbying and no doubt other promotional means are necessary to get such cynically nefarious activity over the line.

John Ziegler
****
NSW 2031

From:	cheng
To:	OriginPetroleum DEPWS
Cc:	Minister Moss
Subject:	Origin EMP on EPs 98 & 76
Date:	Monday, 15 August 2022 12:15:21 PM

Dear Sir/Madam,

I have deep concern about the Origin EMP EPs 98 & 76 proposals to frack 12 new gas wells in Daly Waters. Such large scale fracking has an enormous effect on the environment in both atmosphere, land mass, biodiversity in both plants, animals and human.

I ask that the minister to ensure all the necessary steps are properly investigated and this means to put a halt to this EMP. Remedial solutions are never an answer to give approval to such project as it is too late and costly to the environment and the human population.

I could list all the various impacts of such project, but I am sure the professional bodies such as EPA will have considered these if they were asked to evaluate this project impact.

So, please put a halt to this project until evidence are presented of the cost of project impact.

Thank you

Kind Regards

Cheng Tan
Ashbury, NSW2193

From: noreply@nt.gov.au
To: OriginPetroleum DEPWS
Subject: Origin Energy B2 Pty Ltd EMP comment received - Reference # - 1127177
Date: Friday, 12 August 2022 12:17:28 PM

Contact details

Given name:	*****
Family name:	*****
Email address:	*****
Country:	Australia
Postcode:	0820
Phone number:	
Stakeholder type:	Community

Feedback

Category type:	Social and cultural, Water, Waste Management, Climate change
If other, please specify::	
Comments:	Att: Northern Territory's Department of Environment, Parks and Water Security. My name is Kathy Storch. I am writing to indicate my concerns in relation to Origin's plans to open 12 new fracking wells in the Northern Territory. I am concerned because of: * the short and long terms risks of pollution of the aquifers created by fracking and the use of chemicals in the process. Origin cannot guarantee that there won't be adverse impacts, and damage once done, cannot be undone * the volumes of water that will be used in the process. Water is a precious resource that is vital to communities in the area, and further afield, as well as to the functioning of the ecosystems in the area that have developed over the millennia around these water systems. Origin do not address the impact of their water use on the broader community of environment (including 'downstream') * the claims that exploring for and selling gas will reduce emissions that are just not true. It is only be classifying the emissions that will be created as 'scope 3' rather than 'scope 1' that Origin can push that argument. The proposal should be assessed based on actual emissions and not a slight of hand. * Origin's plans do not meet the standards proposed by the Pepper Inquiry. While not all of the recommendations of that Inquiry have yet been implemented, the NT Government indicated that they all would be in due course. No proposal that does not meet the standards recommended by the Inquiry should be permitted, ahead of the conclusion of the implementation phase. * Traditional Owners of the areas that will be affected must be listened to. They are opposed to the destruction of their country, cultural sites, risks to water and environment. Their voices must be given a priority in the decision making process. * Local pastoralists who have commitments to operate primary farming activities on these and surrounding areas and obligations to care for the country in so doing are also opposed to the activities. The risks

	to their activities, which are 'backbone' activities for the NT, are not adequately recognised. Guaranteed non-interference should be a prerequisite of any activity. I am asking the Department to reject Origin's EMP. Regards Kathy
Attachment:	No file uploaded
Privacy:	Tick this box if you wish for your name and contact details to be confidential. While the department will do their best to follow your request, your submission may be disclosed under the Information Act 2002 and when required by law.

From: noreply@nt.gov.au
To: OriginPetroleum DEPWS
Subject: Origin Energy B2 Pty Ltd EMP comment received - Reference # - 1127237
Date: Friday, 12 August 2022 3:16:47 PM

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Feedback

Category type:	Social and cultural, Flora and fauna, Water, Climate change, Regulation and compliance
If other, please specify::	
Comments:	It is well known that ORIGIN says something while doing something else. That's why I have sold my ORIGIN shares. I would not trust this company to keep all the safeguards in their works that they may have promised! Moreover, fracking has had its time, and should no longer be practiced. Let ORIGIN start doing things that will REALLY HELP PREVENT global warming, pollution and destruction of the environment while getting to 100% renewables. PLEASE DO NOT ALLOW ORIGIN TO GO AHEAD WITH THIS PROJECT OF FRACTION ! With grateful thanks, Lili
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Subject:	Origin Energy B2 Pty Ltd EMP comment received - Reference # - 1127267
Date:	Friday, 12 August 2022 3:56:08 PM
Attachments:	Tyndall_Production_Phaseout_Report_final_text_3_.pdf

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Feedback

Category type:	Climate change
If other, please specify::	
Comments:	This EMP should be refused and referred for assessment under the EPBC Act. It should considered an EPBC controlled action because it affects a World Heritage property. The greatest threat to the World Heritage listed Great Barrier Reef is climate change. The report (Sept. 2019), "The human imperative of stabilizing global climate change at 1.5°C" https://climateanalytics.org/media/eaaw6974.full.pdf makes it clear that even 1.5°C warming would be devastating for the Great Barrier Reef. From page 5, "there are multiple lines of evidence indicating that 70 to 90% of warm-water tropical corals present today are at risk of being eliminated even if warming is restrained to 1.5°C" Based on a 50:50 chance of not exceeding 1.5°C, the report (March 2022), "Phaseout pathways for fossil fuel production within Paris-compliant carbon budgets" (PDF attached), "makes absolutely clear that there is no capacity in the carbon budget for opening up new production facilities of any kind, whether coal mines, oil wells or gas terminals." This EMP would allow new gas production, thereby endangering the Great Barrier Reef by increasing the chance of its destruction. Australia is legally bound by Article 4 of the World Heritage Convention to protect the GBR and to, "do all it can to this end, to the utmost of its own resources and, where appropriate, with any international assistance and co-operation, in particular, financial, artistic, scientific and technical, which it may be able to obtain." https://whc.unesco.org/en/conventiontext To protect the GBR, Australia can ban new fossil fuel production and then seek "international assistance and co-operation" from other countries to do likewise. This EMP should be refused. Sincerely Dr Andrew Norton (physicist)
Attachment:	Tyndall_Production_Phaseout_Report_final_text_3_.pdf, type application/pdf, 2.1 MB

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Phaseout Pathways for Fossil Fuel Production Within Paris-compliant Carbon Budgets

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Tyndall Centre
for Climate Change Research

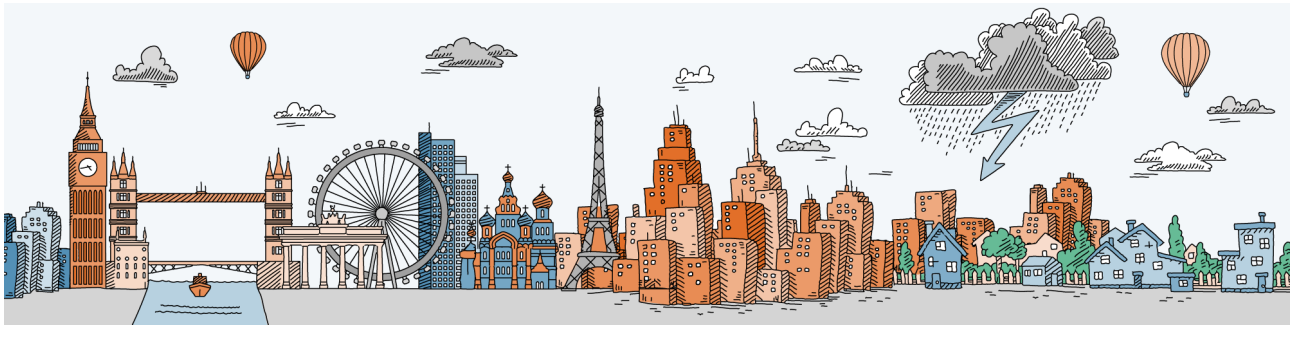
Phaseout Pathways for Fossil Fuel Production

within Paris-compliant carbon budgets

Research Report

Client: International Institute for Sustainable Development
Document ref: Tyndall Production Phaseout Report
Version: Final Text
Date: 11 March 2022

Prepared by: Dr Dan Calverley and Professor Kevin Anderson



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The Tyndall Centre is a partnership of universities bringing together researchers from the social and natural sciences and engineering to develop sustainable responses to climate change. We work with leaders from the public and private sectors to promote informed decisions on mitigating and adapting to climate change. The Tyndall Centre was founded in 2000 to conduct cutting edge, interdisciplinary research, and provide a conduit between scientists and policymakers. With approximately 200 members across career stages, the Tyndall Centre represents a substantial body of the UK's climate change research expertise. Since 2000, the Tyndall Centre has significantly advanced various areas of climate change research and policymaking including: the development of emission reduction pathways for major energy consuming sectors, the understanding of climate impacts, risks and adaptation options, public perceptions of climate change, and the governance of climate negotiations and policymaking. The partnership institutions are: University of East Anglia, University of Manchester, Cardiff University and Newcastle University.

For further information please see www.tyndall.ac.uk.

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Headline finding

To comply with the carbon budget for a 50:50 chance of not exceeding 1.5°C of warming requires immediate and deep cuts in the production of all fossil fuels. There are no exceptions; all nations need to begin a rapid and just phaseout of existing production. The report makes absolutely clear that there is no capacity in the carbon budget for opening up new production facilities of any kind, whether coal mines, oil wells or gas terminals. A transition based on principles of equity requires wealthy, high-emitting nations to phase out all oil and gas production by 2034 while the poorest nations have until 2050 to end production.

Key messages

1. The carbon budgets associated with "keep 1.5°C alive" and "stay well below 2°C" imply much more urgent cuts in emissions than any government is considering, and require the rapid and complete phaseout of all fossil fuel production. The maths are clear: for a 50:50 chance of not exceeding 1.5°C, the carbon budget equates to ten years of current emissions. For a 67% or better chance of 1.5°C this falls to just seven years. For a 50% chance of 1.7°C it only increases to eighteen years.
2. There is widespread recognition that coal production must be phased out urgently and that wealthy countries must act first. However, quantifying such a shift in relation to a 50% chance of 1.5°C, with an emphasis on equity, makes clear just how stark this 'urgency' really is. For developed nations, coal production needs to fall by 50% within five years and be effectively eliminated by 2030. For developing nations coal production must halve within a decade with all extraction ceased by 2040.
3. The UN's equity framing of 'common but differentiated responsibility' requires those wealthier nations with economies less dependent on oil and gas revenues lead the way with high rates of closure and early phase-out dates. Poorer nations have a little leeway, with both slower rates of closure and slightly later phaseout dates.
4. The IPCC's headline carbon budget for a 50% chance of 1.5°C places very tight constraints on the production of oil and gas. For the wealthiest group of 'producer nations', with the highest capacity to achieve a 'just transition', output of oil and gas needs to be cut by 74% by 2030, with complete phase out by 2034. For the middle-income group with medium capacity for a just transition, the timeframe extends a little, with a 28% cut by 2030, and a zero-production year of 2043. For the poorest group with lowest capacity, a 14% cut is required by 2030, with all production ended by 2050.
5. There is no practical emission space within the IPCC's carbon budget for a 50% chance of 1.5°C for any nation to develop any new production facilities of any kind, whether coal mines, oil wells or gas terminals. This challenging conclusion holds across all nations, regardless of income or levels of development.
6. From a mitigation perspective alone, it is no longer possible to deliver an equitable division of the small and rapidly shrinking carbon budgets. Although poorer countries have longer to phase out oil and gas production, many will be hit hard by the loss of revenue with an attendant risk of political instability. An equitable transition will require wealthy high-emitting nations make substantial and ongoing financial transfers to poorer nations to facilitate their low-carbon development, against a backdrop of dangerous and increasing climate impacts.

How confident are we in our findings?

It is certainly possible to 'fine tune' some of the assumptions that underpin the quantitative analysis within this report. However, within the tight IPCC carbon budgets for 1.5–2°C, and with serious attention paid to the UN framing of equity, the key messages outlined here are sufficiently robust to provide a strong guide to mitigation policy.

A potential exception to this is whether it is considered appropriate or not to expand the IPCC's carbon budgets through future 'carbon dioxide removal', deployed at planetary scale and principally in the second half of the century. This issue receives careful attention within the report. Specifically, in relation to emissions of carbon dioxide from the energy sector, the inclusion of highly-speculative-at-scale CDR is judged inappropriate, as it works against the tenets of precaution. Moreover, whilst CDR is now ubiquitous in mitigation analyses, the IPCC's estimates of additional feedbacks, potentially reducing carbon budgets, are seldom if ever included. For this analysis, a conservative approach is adopted, neither easing the mitigation burden through CDR nor increasing it through additional feedbacks.

1 Introduction

This section provides the key context and landscape from which the report's analysis is subsequently developed.

The Paris Agreement commits us, as a minimum, to acting to hold global warming to well below 2°C, and in doing so to strive for no more than 1.5°C of warming.

1.1 Commitments, temperatures and probabilities

The 2015 Paris Agreement undertakes to hold "the increase in the global average temperature to well below 2°C … and to pursue efforts to limit the temperature increase to 1.5°C." [1]. The temperature goals of the Paris Agreement are themselves proxies for suites of climate impacts (more accurately, for the rate of change of impacts) and their attendant consequences for people and the wider biosphere[1].

In the years since Paris, evidence has accumulated that the impacts of 1.5°C of warming will likely be more severe and occur much earlier than previously anticipated [2]. The Working Group I (WGI) contribution to the IPCC's Sixth Assessment Report (AR6) published in August 2021 gives a best-estimate of when mean global surface temperature will surpass 1.5°C [3]. This is now expected to fall between 2030 and 2035, in the absence of stringent and rapid mitigation policies.

While the Paris Agreement places an unambiguous obligation on its signatories to limit warming to 'well below 2°C', the language of 'pursue…1.5°C' is rather less imperative. Nevertheless, anticipating the findings of AR6 and recognising the serious threats to life and wellbeing from impacts at 1.5°C, in May 2021 the council of environment ministers of the G7 group of nations published a communiqué explicitly pledging to hold warming to 1.5°C [4].

Since Paris, the case for limiting warming to 1.5°C has strengthened considerably.

The undertaking in the G7 communiqué arguably suggests a higher than 50% probability of restricting warming to no more than 1.5°C. In a similar vein, the November 2021 COP26 event had as its strapline "keep 1.5°C alive" [5]; multiple previous COP events also had a strong focus on 1.5 rather than 2°C. Notwithstanding these clear scientific and political precedents for fortified efforts to limit warming to 1.5°C, the magnitude and rapidity of mitigation action needed to deliver such a target cannot be overstated. The window of opportunity is fast closing for the transformative system-wide decarbonisation needed to achieve even a reasonable chance of not exceeding 1.5°C of warming.

1.2 The logic of addressing production

To achieve the reductions in emissions necessary for staying within 1.5–2°C of warming, fossil fuel use must be urgently curtailed [2], [6], [7]. Clearly,

mitigating the consumption of fossil fuels at the downstream level will have direct and clear implications for the upstream production of those fuels[2]. Without the ability to store significant surpluses of fossil fuels, supply (production) corresponds with demand (consumption).

At the global level, then, annual fossil fuel production and consumption are effectively in lockstep (see §4.1 for more detail). At the level of individual nations, however, there are important differences in the relationship of production to consumption across the three primary fossil fuel types: coal, oil and gas.

1.3 Focus on oil and gas

Oil is used by all countries – regardless of whether they produce it or not.

Oil is currently used in significant quantities by virtually every nation of the world, developed and developing, almost irrespective of each nation's level of oil production. Its prevalence can be attributed to a combination of high energy density, inherent portability and versatility, and an extensive legacy of production and distribution infrastructure. As a highly traded commodity, oil is moved around the world by tanker and pipeline, with production and consumption typically occurring in geographically separated locations, i.e. in different countries, often on different continents.

This is less the case with gas, which although increasingly traded via both pipeline and in the form of LNG (liquefied natural gas), is more costly to move from point of production to distant points of consumption. While gas is used by many countries that do not produce it, these tend to be wealthier, developed countries with long-term sale and purchase agreements with producer nations, and with well-established and high capital cost gas infrastructures.

Coal, as the least energy dense, bulkiest fossil fuel, is far less traded than either oil or gas, hence its consumption is more geographically tied to production. That is to say, coal is not widely used by countries that do not produce it (see §4.3.1 for details on the differences in coal consumption and production patterns across developing and developed nations).

Coal is being targeted for urgent phaseout by international climate organisations.

As a consequence of its lower energy density, coal has much higher CO_2 emissions per unit of useful energy produced[3]. Coal combustion is also responsible for much higher levels of particulate air pollution than other fossil fuels, which are directly hazardous to human health[4]. Thus, ending coal-fired power generation has become the focus of international mitigation efforts, with the Secretary General of the United Nations emphatically calling for its urgent phaseout [8], and many countries declaring moratoria on coal consumption under the banner of the Powering Past Coal Alliance (PPCA) [5].

In this report, we take the growing consensus on coal phaseout as a given. Assumptions about coal are key to establishing the starting position for oil and gas, so are treated early in the analysis (see §4.3). Thereafter, we turn our attention specifically to oil and gas. Less than half of the nations of the world have oil and gas extractive industries of any consequence – a disparity that arises both from the uneven distribution of hydrocarbon deposits in the Earth's crust and centuries of geopolitical wrangling over access rights to those deposits. The world's oil and gas production is therefore highly concentrated and supplied by a minority of nations.

95% of global oil and gas production takes place in just thirty-three countries; 99.7% in eighty-eight. nations.

1.4 Equity in production phaseout pathways

Oil-and-gas-producing nations (hereafter 'producer nations' or simply 'producers') have economies that are, to a greater or lesser extent, dependent on revenue from the extraction and sale of that oil and gas. While mitigation of fossil fuel use must be pursued by all nations (with universal acknowledgement that wealthy, high-emitting nations must make the deepest and most urgent cuts[5]), the economic consequences of diminishing production will be experienced primarily by producer nations.

Ending consumption of oil and gas will economically and socially impact the minority of nations that produce those fuels.

Importantly, within the top eighty-eight producer nations, major disparities exist across a range of indices of economic prosperity, wellbeing and internal inequality. This in turn reveals a wide discrepancy in the capacities of different producer nations to transition away from fossil fuels in as fair a way as possible to those who are currently dependent on fossil fuel production for their livelihoods (a 'just transition') .

These disparities will see some producer countries face much greater difficulty than others in ensuring both a just transition for their extractive workers and the funding of basic development needs of their wider citizenries as they phase out fossil fuel production. These difficulties are most likely to arise in nations where revenue from fossil fuel extraction dominates the economy, and hence where the functioning of much of society is dependent on that revenue. Such precarious positions are exacerbated where there is already a low level of underlying economic development and high internal inequality (expressed as a low IHDI score), or both. These vulnerabilities, and their implications for political stability and the provision of basic needs, must remain a key consideration when detailing specific national phaseout schedules.

Producer nations differ widely in their:
- *dependency on revenue from fossil fuels;*
- *ability (or capacity) to ensure fair treatment for their extractive workers as the world ends its use of fossil fuels.*

In adopting this approach, we remain cognisant of wider equity concerns. For example, the processes of extraction may violate the rights and indeed safety and security of those living nearby. Or, more simply, the benefits of fossil fuel revenue may be confined to a relatively small proportion of a country's

population. Such localised aspects of equity are beyond the scope of this report. Consequently, it is important to understand that the analysis presented here provides 'provisional' phase-out schedules for oil and gas production, and that these may need to be accelerated or delayed depending on country-specific circumstances.

Precisely because of the considerable variation in the capacities of producer nations to deliver a real-world[6] and, preferably, just transition, one phaseout pathway patently does not fit all.

1.5 Why use a production-emissions budget methodology?

Fossil fuels, once extracted, are inevitably burned. Using fuel-specific emissions factors allows conversion of a quantity of fossil fuel produced into its ultimate CO_2 emissions outcome. Note that in this analysis, production emissions refers to the emissions from the ultimate combustion of the fossil fuel at point of end-use, not just the emissions incurred in extracting or processing it (see §4.1 for more details on this approach).

Tonnes of coal, oil or gas produced can be expressed as the amount of CO_2 that will be emitted when the fuel is burned.

Translating fossil fuels into CO_2 emissions allows us to determine the amount of production that would 'fit' into an agreed global carbon budget. Thus, 'production budgets' are simply the amount of fossil fuels, expressed as their CO_2 equivalent, that can be extracted (and subsequently combusted) within a given carbon budget.

Production budgets are fuel-specific and will vary according to the assumptions made about the relative split of coal to oil to gas within the global primary energy mix. Such budgets can be disaggregated to groups of producer nations according to their relative capacity to make a just transition. Finally, national production budgets can be transposed into plausible production phaseout pathways and, ultimately, end dates.

Plausible production phaseout pathways reveal what would have to change in the annual outputs of producer nations if we are to keep within a temperature-derived global carbon budget, while respecting the equity principles of the Paris Agreement.

Our approach differs notably from the majority of contemporary analyses of production in that it proceeds from transparent and sequentially reasoned assumptions about key determinants. For example, we make clear our reasoning and treatment of: coal production, uncertainties around earth systems feedbacks, emissions from land use change, forestry and agriculture, and the presumption of still speculative-at-scale carbon dioxide removal techniques.

Such transparency and wider accessibility is arguably lacking from analyses that utilise integrated assessment models (IAMs) [10]. Most IAMs are complex, cost-optimised models that use assumptions about rising carbon prices, elasticities of demand, discount rates, etc, to drive changes away from

fossil fuels and towards renewables and other forms of low-carbon energy supply. Almost all incorporate (often uncritically) unprecedented amounts of negative emissions technologies (NETs) and/or 'nature-based solutions' (NbS) to remove CO_2 from the atmosphere after it has been released. The majority of IAMs use embedded algorithms designed to deal with marginal (i.e. relatively small) changes near to economic equilibrium and typically informed by historical norms (e.g. existing elasticities of demand and discount rates). They are not constituted to model the immediacy, depth or pace of profound transformation required to stay within the 1.5 °C or even "well below 2°C" carbon budgets.

Most IAMs invoke 'carbon dioxide removal' to capture huge quantities of CO_2 from the atmosphere, after it has been emitted from burning fossil fuels.

Another important point of divergence is that central to our approach is the consideration of equity. IAMs, by contrast, are not configured in a way that can cope with the nuanced reasoning and weighing of contextual factors required to ascertain the 'least unfair' outcomes for disparate constituencies[7].

IAMs do not deal with complex, nuanced issues of equity or fairness.

1.6 The core concepts of precaution and equity

This report takes the precautionary principle as a guide to the development of its methodology and assumptions, recognising that for the past thirty years the collective global response to climate change has been the opposite of this. Disturbingly, reliance on speculative negative emissions technologies and the uncertain manipulation of nature still pervade much of the mitigation debate today. The ubiquitous adoption of carbon dioxide removal (CDR) and carbon capture and storage (CCS) to weaken the rapid phaseout of fossil fuels implied by 1.5°C carbon budgets (see §3.2 below) demonstrates a clear and ongoing rejection of precaution in favour of minimising disruption to the status quo.

1.7 The case for financial transfers

While evoking the precautionary principle, it is important to acknowledge that, to a significant degree, our application of it has necessarily been weakened by our judgement of what is now, in 2022, achievable. This judgement call similarly is played out when considering the fossil-fuel phaseout schedules between the different country groups.

It is the view of the authors that 1.5 to 2°C carbon budgets (see §2.3) are now so depleted that equity between nations cannot be delivered through differential mitigation alone. In this regard, and with practicality still guided by principles of equity, the best that can be achieved is the 'least unfair distribution' of the remaining carbon budget.

It is now too late to deliver equity simply through later phaseout dates for developing countries – financial transfers will be essential.

This is a highly inequitable and far from satisfactory position. In large part this situation has come about because the nations with greatest historical emissions have so far abdicated their "common but differentiated

responsibility" to rapidly cut their emissions. The upshot of this failure is that substantial levels of financial assistance [11] and reparations [12] are now required, if poorer nations are to deal with the climate impacts knowingly imposed on them while simultaneously developing their societies without recourse to ongoing revenue from fossil fuel production.

1.8 Key question for this research

Building on the foregoing context, this research report addresses the following question.

> How, within a given **global emissions budget** aligned with the Paris Agreement goals, could **oil and gas production be differentially phased-out** in producer nations, while taking account of the principle of **equity** as embedded in principle of common but differentiated responsibilities and respective capabilities (CBDR-RC)?

In so doing, we develop phaseout pathways appropriate for countries with higher capacities that are able to make a rapid and just transition at one end of the scale (phasing out production faster), and for countries with lower capacities to transition at the other (phasing out production more slowly – or perhaps more accurately, "not as fast").

The pathways are informed by careful consideration of issues of equity (as captured in CBDR-RC), and all comply with the remaining carbon budgets for given probabilities of specific temperatures consistent with the Paris Agreement goals. We identify what these pathways tell us about the phaseout schedules and the required end dates for production of oil and gas in producer countries. All this is guided by nations' respective dependence on oil and gas revenues and their capacity to rapidly transition away from fossil fuel production.

This analysis uses science-based budgets, carefully reasoned and transparent assumptions about mitigation and a careful consideration of equity.

SECTION FOOTNOTES

[1] While mitigating impacts of climate change is the primary concern of both this report and the Paris Agreement, it is worth noting that the temperature goals of the treaty are situated in the context of wider sustainable development, equity and poverty eradication goals.

[2] It has been argued that from a mitigation perspective it is simpler to deal with a smaller number of supplying entities (whether they be nationalised industries or private companies) than a much larger number of consuming entities (individual end-users). While such arguments may be compelling, this work does not seek to advance nor contradict them.

[3] Both in direct combustion and still more so when used for electricity generation

[4] Historically, the phase out of coal in many wealthy nations has been driven as much by clean air directives as by climate change mitigation. The impact of coal on air quality is now also a serious concern for many rapidly industrialising nations, particularly China and India.

[5] Agreed as part of the 1992 UNFCCC [20] and the attendant principle of CBDR-RC, with the latter remaining central in all subsequent United Nations COPs.

[6] For some nations, oil and gas revenue forms such a large part of the economy that rapidly removing it could destabilise what are sometimes fragile governments.

[7] For example, from a technical perspective, this would require embedding concepts such as the 'marginal value of money' (determined not by modelers in the global north, but by sociological/anthropological analyses of diverse populations in 'poorer' nations) and compensation principles (e.g. Kaldor-Hicks-Scitovsky, including the thorny issue of whether such compensation should actually be paid or simply theoretically possible). These would then need to be considered in relation to key factors in GE models, not just as technical adjustments, but rather informed by much deeper cultural and philosophical considerations of nations where the tenets of GE modelling are far removed from the functioning of such societies. Ultimately, IAMs and GE models are constructs of a particular and highly technocratic worldview, and as such are unable to embed the diverse political economies that comprise and inform the multi-layered process and dialogues feeding into the COP negotiations and agreements.

2 Global carbon budget framing

This section addresses the question: what CO_2 emissions space (expressed as a carbon budget range) is left for global energy use if the temperature and equity goals of the Paris Agreement are to be delivered?

2.1 Cumulative carbon budgets

Carbon budgets delimit the total additional quantity of CO_2 that can be released into the atmosphere for a named probability of not exceeding a given temperature threshold. The WGI contribution to AR6 updates the carbon budgets associated with a range of temperature stabilisation levels from those published in the IPCC's previous major report, SR1.5 [2].

For this research report, three scenarios based on AR6 carbon budgets[8] have been selected to represent:

(i) A 50% chance of staying within 1.7°C. This budget also gives a greater than 83% chance of staying within 2°C, as per the Paris Agreement.
(ii) A 50% chance of staying within (or stabilising at) 1.5°C.
(iii) A 67% chance of staying within (or stabilising at) 1.5°C.

This report revolves around three core scenarios, based on different probabilities of not exceeding 1.5°C and 1.7°C.

The 'headline' budgets in AR6 are for all global CO_2 emissions from the start of 2020 onwards, to cover the rest of the twenty-first century and beyond[9].

2.2 Adjustments to the headline budgets

From the headline AR6 budgets, we now make a series of deductions to identify how much is available for emissions from fossil fuels.

2.2.1 Earth system feedbacks

Earth system feedbacks (ESFs) include positive and negative climate responses to rising temperatures, for example, they may trigger the release of naturally stored greenhouse gases through thawing permafrost, increased frequency and extent of forest fires, or methane released from wetlands [13]. Whereas the budgets presented in SR1.5 did not include ESFs in their headline numbers[10], the AR6 budgets already account for 26 $GtCO_2$ (±97 $GtCO_2$) of ESFs per degree Celsius of warming.

Feedbacks within the climate system have the potential to make the AR6 carbon budgets considerably smaller.

For the purposes of this research, no adjustment has been made to the headline budgets for ESFs. That is, we use the AR6 headline budgets, which have already been reduced by 26$GtCO_2$ per degree for ESFs, with no further adjustment for the ±97 $GtCO_2$ per degree uncertainty range.

However, the scale of these potential feedbacks must always be borne in mind when considering the potential for overshooting the budget and temperature

target. This sobering point is all the more important to recall whenever unproven-at-scale methods of carbon dioxide removal (CDR, see §3, below) are proposed as a means of extending the budget space available for a given temperature and probability.

Though different in character, both CDR and the additional ESFs share high levels of uncertainty. Consequently, from a precautionary perspective, it would be reasonable to expect a family of emission scenarios with carbon budgets reduced in line with the estimates of additional ESFs (97 $GtCO_2$ per °C)[11]. Instead, the four headline scenarios in AR6 all assume the huge roll-out of CDR: three reliant on NETs and one that adopts very significant levels of afforestation. None of the four headline scenarios takes account of the significantly reduced carbon budgets from including the additional ESFs.

In keeping with AR6, we do not adjust the global carbon budgets for possible additional feedbacks within the climate system.

Set within the context of high levels of uncertainty associated with both CDR and additional ESFs, the analysis developed for this report adopts a conservative approach. As such, it uses the AR6 headline budgets, not increasing them through the inclusion of CDR (see section 3) nor reducing them through additional ESFs.

2.2.2 Recent emissions

The Global Carbon Project [5, 6] reports that global CO_2 emissions from fossil fuels (energy and processes) in 2020 were 34 $GtCO_2$, with CO_2 from land use change and forestry (LUCF) adding a further 3.2 $GtCO_2$. Data analysis for 2021 emissions is not yet finalised, but it is expected that 2021 will see a slight rebound of the COVID-19-induced downturn, resulting in total emissions of around 36.7 $GtCO_2$ from fossil fuels and 3.8 $GtCO_2$ from LUCF. We remove this combined 78.5 $GtCO_2$ of emissions in 2020 and 2021 from the AR6 budgets to give values commencing in 2022.

Adjustments are made to the global budgets to account for recent emissions and global cement process emissions.

2.2.3 Global cement production

Following the logic elaborated in Anderson et al's 2020 Climate Policy paper, *A Factor of Two* [16] (hereafter *Factor of Two*), process CO_2 emissions from global cement production is treated here as a 'global overhead'. That is to say, process emissions from cement production are treated as the responsibility of all nations, rather than purely of those developing nations from which the majority of these emissions will arise as they continue to expand and upgrade their infrastructure.

Cement process emissions are a largely unavoidable consequence of creating new infrastructure. We treat them as a global overhead, i.e. the collective responsibility of all nations.

Treating cement process emissions in this way recognises that the remaining carbon budget for all nations has already been affected by the cement-related emissions from previous infrastructure development in wealthy nations. It also applies pressure to innovate and reduce emissions from cement manufacture

for all nations, since all bear the consequences (less emissions space for energy) of ongoing high emissions from cement anywhere.

Acknowledging the very high level of optimism in applying the IEA's Cement Technology Roadmap [17] estimate of growth in global cement production in *Factor of Two*, in our 1.7°C scenario here we adopt a slightly more conservative (but still ambitious) value of 100 $GtCO_2$ to account for cement-based process emissions out to 2075 (the point at which the IEA roadmap posits elimination of all cement process emissions). However, AR6 budgets for a 50% and 67% chance of staying within 1.5°C are too small to admit of this precaution without severely constraining the energy pathways of developing countries. Therefore, in the 1.5°C scenarios a global overhead of 60 $GtCO_2$ is assumed for cement, as in *Factor of Two*, and removed from the post-2022 budgets[12].

Our assumed pathway for cement manufacture is ambitious and will be highly challenging for the industry to deliver.

Note that 100$GtCO_2$ assumes a growth rate in cement production that corresponds to the lowest recorded period of growth in recent years (following the 2008 international financial crisis), while the 60$GtCO_2$ assumes annual growth in cement production at a rate that is an order of magnitude lower than any value recorded since the 1950s. Clearly both are optimistic assumptions. To comply with the much tighter budgets for 1.5°C, all systems, energy and processes alike, are pushed as hard as can be practically conceived, hence we use the highly optimistic 60$GtCO_2$ overhead. In the 1.7°C budget there is a little more space for energy and process emissions alike, so it was deemed appropriate that some of that flexibility should accrue to the cement sector. Hence 100$GtCO_2$ was judged the more suitable overhead.

2.2.4 Global iron and steel production

Steel is a vital construction material, which will inevitably play a large role in expanding the renewable energy networks of all countries. As such, it might be argued that iron and steel production should be treated as a global overhead in the emissions budget, in much the same way as cement process emissions. The explicit focus in this project on fossil fuel production also suggests that metallurgical coal, which is used to make coke for the iron and steel industries, might be considered a global overhead.

High levels of process emissions are not inevitable for iron- and steelmaking, so we do not treat those industries like cement manufacture.

Coke is both a fuel source and a reducing agent in the blast furnace–basic oxygen furnace (BF-BOF) method of primary steelmaking. Process emissions from iron and steelmaking are 12% of direct emissions in the BF-BOF method, specifically 0.3 $GtCO_2$ of 2.6 $GtCO_2$ total direct[13] emissions in 2019 [18].

However, there exist proven, viable alternatives to BF-BOF that do not require the use of coke either as a fuel source or as the carbon-based reducing agent. These include as direct reduced iron (DRI) furnaces and electric arc furnaces

(EAF), with renewable-produced ("green") hydrogen as the reducing agent. Both DRI and EAF are currently in use in several countries and being upscaled. Thus even accepting that BF-BOF is the most common method of primary steelmaking today, its process emissions are (i) a much smaller proportion than in cement making, and (ii) mitigable with readily available, existing technology. For these reasons, process emissions from metallurgical coal for the iron and steelmaking industries is not treated as a global overhead. No further distinction is drawn between thermal and metallurgical coal in this project.

2.2.5 Emissions from global land use change and forestry

In the same way that cement process emissions are treated as the joint responsibility of all the nations of the world, so too we consider emissions from deforestation as a 'global overhead' within the carbon budget. The reasons for this are threefold.

First, wealthy countries have to a large extent already deforested their territories during the process of industrialising their economies. By making land available for agriculture and industry, they have already economically benefited from their own programme of deforestation (much as they have already benefited from emissions from cement for their own infrastructure).

Emissions from deforestation are also treated as the collective responsibility of all nations.

Second, treating deforestation emissions as a global overhead better encourages all nations to assess their own influence on global deforestation activities, such as through finding alternatives to meat-based diets that require large areas of cleared land for cattle ranches.

Third, this approach denies any claim by wealthy, long-deforested nations, to emissions 'credit' – effectively additional budget for energy emissions – from reforestation and afforestation projects, whether in their own territories or abroad. Treating the balance of deforestation emissions as a global overhead, therefore prevents a possible weakening of mitigation in wealthy high-emitting countries that would seek such offset credits.

However, in keeping with *Factor of Two*, it is also assumed that a global mitigation programme compliant with temperature-derived carbon budgets would have to include a vigorous development of forest-based carbon sequestration practices, in tandem with an urgent suppression of deforestation emissions themselves. It is therefore assumed that over the period 2022 to 2100 emissions from deforestation are balanced out by an equivalent quantity of carbon dioxide sequestered from LUCF[14].

We assume that CO_2 emissions from deforestation are balanced out over the century by sequestration from the wider land use sector.

While we consider this zero-sum balancing an optimistic assumption, we note that many mitigation modellers invoke considerably higher levels of optimism in assuming that forests will remove huge quantities of carbon dioxide from the atmosphere over the course of the century (see §3 for discussion of why we adopt a more precautionary approach to carbon dioxide removal). Note that no such assumption about balancing out is made for emissions of non-CO_2 greenhouse gases from LUCF or agriculture, which must be considered the prime candidates for technology-based CDR if and when such technologies become viable and deployed at scale.

We assume that non-CO_2 emissions from the wider land use sector (including agriculture) will remain largely unavoidable during the rest of the century, and must be compensated for.

2.3 Global budgets for scenarios in this project

Taking account of the adjustments to AR6's headline temperature-derived budgets described in section 2.2, we can determine the following range of global budgets for CO_2 emissions from energy only from January 2022 onwards.

Scenario	Headline global budget in AR6, i.e. from start of 2020	Less 2020-21 emissions (budget from start of 2022)	Less cement process emissions (fossil fuel budget)	Years at current emission rate
50% 1.7°C	850	771	**671**	18.3
50% 1.5°C	500	421	**361**	9.8
67% 1.5°C	400	321	**261**	7.1

Table 1: Global emissions budgets and key adjustments under three scenarios.

There is less than ten-years'-worth of current emissions remaining for a 50:50 chance of limiting global warming to 1.5°C.

NB: All budget values in billion tonnes of CO_2 ($GtCO_2$). The budget for 50% chance of 1.7°C is the same as for 83% chance of 2°C.

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[8] AR6, Table SPM.2

[9] CO_2 is atmospherically stable (chemically unreactive), so accumulates and exerts a warming effect for centuries, potentially millennia, to come. The budgets in AR6 are therefore effectively 'forever' budgets, unless and until direct air capture and permanent sequestration of CO_2 is developed and successfully implemented at the global scale.

[10] Table 2.2 of SR1.5 specifies a reduction to the budgets of $100GtCO_2$ over the century to reflect climate feedback uncertainties.

[11] Scenarios could also be developed for an increase in the budgets by 97GtCO_2/°C (as the per the IPCC estimate of additional ESFs), however this would work directly against a more precautionary perspective. In addition, it could be argued that given *all* the IPCC's headline mitigation scenarios adopt significant levels of highly uncertain CDR (effectively expanding the carbon budget), then indirectly at least, the effect of increasing the budget through ESFs should be considered.

[12] For more detail on how the various estimates of growth in global cement production in the IEA Cement Technology Roadmap were applied to real world data on cement production, see *Factor of Two* (section 3.1.1 and Appendix B–Cement in Supplemental Material).

[13] Direct emissions in this case refers to the emissions only from the steelmaking process itself, not the emissions from producing the electricity and heat consumed by the sector.

[14] *Factor of Two,* written in 2019 and published in early 2020, assumed that LUCF emissions would balance out over the course of the century from the start of 2020 onwards. As there is no evidence of emissions from this sector declining in the interim, here we remove LUCF emissions in 2020 and 2021 (see §2.2.2) and assume that the sector is zero-sum over the remainder of the century.

3 What role for Carbon Dioxide Removal and Carbon Capture and Storage?

3.1 The case for CDR and CCS

Since the IPCC's first major report in 1990 and the UNFCCC entering into force in 1994[15] [19], the rates of mitigation needed to *"prevent dangerous anthropogenic interference with the climate system"* [11, p.4] have increased substantially. From 2013 the IPCC's reports began to include explicit carbon budgets for various probabilities of different temperatures [2], [6], [7]. These budgets have provided a means to robustly quantify the widening gulf between real action to reduce emissions on the one hand, and political commitments on climate change on the other.

Mitigation modelling has only started to widely embrace CDR and CCS relatively recently, prompted by rapidly depleting carbon budgets and improved understanding of the severity and onset of likely impacts of 1.5°C.

Coincident with the rapid decline in the remaining carbon budgets, improvements in climate science have led to a reduction in the temperature at which 'dangerous' impacts are forecast to occur [21]. This combination of dwindling budgets and a focus on lower temperatures (i.e. a stronger emphasis on 1.5°C) has prompted many mitigation scenario modellers to include increasing levels of future 'carbon dioxide removal' (CDR) and the deployment of 'carbon capture and storage' (CCS) technologies. Within a given carbon budget, the adoption of CDR reduces the necessary rates of mitigation by effectively increasing the available emissions space. The inclusion of CCS has the effect of reducing the carbon intensity of fossil fuel energy (e.g. the grams of CO_2 emitted per kWh of energy produced) and thereby increase the total quantity of fossil fuels that may be combusted for any given carbon budget.

3.2 Why we do not expand the carbon budgets through CDR

Within this report, CDR, both in the form of 'negative emissions technologies' (NETs) and 'nature-based solutions' (NbS), is not used to increase the size of the remaining carbon budgets. This position reflects several key concerns arising from the almost ubiquitous adoption of CDR within high-level emission scenarios. The following subsections provide a succinct account of why, within this analysis, CDR is not used to expand the emission space available for fossil fuel combustion.

3.2.1 NETs: too speculative for inclusion

As of today, NETs are either in the form of small pilot demonstrators capturing just a few thousand tonnes of carbon dioxide[16] [22], [23] or remain in the imagination of modelers and engineers. Despite this, virtually all high-level mitigation analyses assume that in coming decades NETs will be deployed at huge, planetary scale, increasing significantly post-2050 and extending well beyond the end of the century. Certainly, there is merit in a well-funded research and development programme on NETs. Moreover, provided any

promising designs meet stringent ecological and social sustainability criteria, a rapid process of large-scale testing and subsequent deployment should commence.

Negative emissions technology schemes remain at the scale of small pilot schemes. Their deployment at planetary-scale is as yet hard to envisage.

Such deployment of NETs in a small suite of more exotic scenarios would add an important family of model outputs to complement those using existing technologies and understood processes of social change. However, and despite the fledgling state of NETs, their 'unproblematic' use to remove many hundreds of billions of tonnes of carbon dioxide across the century is now pervasive.

3.2.2 BECCS: ecological and sustainability implications

Within existing models and scenarios, the approach that dominates the NETs assumption is bioenergy with carbon capture and storage (BECCS). In this approach the growing of organic material (biomass) absorbs atmospheric CO_2, with the biomass subsequently combusted as fuel in a conventional thermal power station from which the CO_2 is captured and stored rather than emitted.

Ostensibly BECCS confers considerable advantages to models seeking to cost-optimise their responses to climate change, as it substitutes for other mitigation options deemed to have higher marginal costs. However, the scale of mono-cropped[17] biomass necessary to deliver the billions of tonnes of removal through BECCs imposes considerable ecological and societal risks. In important respects, the cure could be as bad if not worse than the disease. One estimate puts the *"loss of terrestrial species* (from high levels of BECCS) *perhaps worse than the losses resulting from a temperature increase of about 2.8°C above pre-industrial levels."* [24]. Another estimate puts the land take associated with the levels of BECCS in many models at between 380 and 700 million hectares [25], equivalent to one-and-a-half times the combined area of the EU's twenty-seven countries, or up to twice the area of India. Further to such high-profile impacts, BECCS at scale also has major implications for water use, land-rights, global shipping and wider transport demands, as well as those associated with the integrity of carbon dioxide storage.

BECCS is not invoked in this report because of its serious ecological and societal risks.

From the perspective of this analysis, the particular details of returning to a global economy powered, in significant part, by the combustion of plant material with the emissions subsequently captured and buried, is largely beside the point. As noted in §3.2.1, this analysis does not explicitly adopt any form of NETs as a means for directly expanding the available carbon budget space for fossil fuels. Nevertheless, as discussed in §3.2.4 below, some form of CDR is indirectly assumed to compensate for warming arising from those residual agricultural emissions that cannot be eliminated.

3.2.3 Forestry as a 'nature-based solution' to rising emissions

Another approach increasingly mooted as having potential to expand the available carbon budget, and thereby reduce the rates of immediate and early mitigation, is the adoption of high levels of forestry. This typically takes the form of afforestation and reforestation, but in analyses that draw on specialist forestry expertise, notably extends to include the regeneration of degraded forests [26].

While there is certainly significant potential for the uptake of carbon dioxide into additional forestry cover, what is critical for this report is that "*the rates and amounts of net carbon uptake are slow and low compared to the rates and amounts of carbon dioxide we release by fossil fuel combustion. Hence, removal of carbon dioxide from the atmosphere does not compensate for the release of fossil fuel emissions*" [26, p. 10]. This key point was reiterated at COP26. Based on the publication of the 'New Insights in Climate Science 2021' [27], Professor Rockström (one of the report's authors) stated clearly "*we need nature-based solutions, but we cannot use them to slow down the pace of emission reductions from fossil fuels*" [28].

Forestation as a 'nature-based solution' to climate change is not invoked in this report because biospheric carbon is not interchangeable with fossil carbon.

Further to this, the simple reduction of the myriad complexities of trees and forests to one of carbon risks missing a much more nuanced suite of climate-related issues that remain, to an important degree, unsettled[18] [29].

For this report the breadth of forestry-related issues – from how terrestrial carbon is always vulnerable to re-emission (i.e. issues of permanence), through to temporal differences in land and fossil-fuel carbon cycles – are considered sufficient reason to exclude NbS from compensating directly for fossil fuels emissions.

3.2.4 CDR to balance residual emissions from agriculture

A key caveat to the role of CDR in relation to carbon dioxide budgets and fossil fuels is that emissions of all long-lived greenhouse gases need to reduce to zero, or warming from any residual emissions must be compensated for. In this regard, the report's authors acknowledge the vital role of some form of CDR in balancing ongoing warming from residual agricultural emissions of nitrous oxide (N_2O) and methane (CH_4). While such emissions can be significantly reduced from their current rate, they cannot be entirely eradicated. With a rising global population, alongside changes in the climate, rainfall patterns, etc, there will very likely be additional demand for fertiliser use to maintain and potentially increase yields. Overall, a combination of much improved agricultural practices and a fundamental shift away from meat consumption is here assumed to result in total global agricultural emissions in

Ongoing emissions of non-CO_2 greenhouse gases (nitrous oxide and methane) cannot be eliminated from agriculture, even with better technology and practices and shifts in diets.

the order of 4 to 7 $GtCO_2e$/year [30], [31] – not too dissimilar to estimates of future CDR.

This report assumes that CDR has a vital role to play in balancing residual (unavoidable) non-CO_2 emissions from agriculture – but <u>not</u> CO_2 from fossil fuels.

Acknowledging the need for significant levels of CDR to address those emissions impossible to eliminate (in contrast to just 'difficult' to decarbonise) highlights the jeopardy of 'double-counting' such removals to offset emissions from fossil fuels. Thus, the fossil fuel phaseout schedules in this report are developed without recourse to future CDR for the energy system.

3.3 Why do we not expand the use for fossil fuels through CCS ?

The prospect of CCS has, since the late 1970s [32], been proposed as a potential means for reducing the emissions per kilowatt hour of fossil-fuel-fired power generation. More recently, it has also been offered as a technology with the potential to unlock the production of 'blue hydrogen'. However, while CCS has remained central to most orthodox system-level mitigation scenarios, in practice the fossil fuels industries have demonstrated very little belief in its long-term prospects, having constructed just a few small pilot schemes over the past two decades.

In 2010 the IEA's CCS Roadmap (as part of its low carbon 'Blue' scenario) [33] envisaged sixty large scale CCS projects by 2020, rising to around 500 by 2030 and over 1800 by 2050. In its 2021 report, the Global CCS Institute noted there were twenty-seven plants operational, with four more currently under construction [34]. Total capture was estimated at a little under 37 $MtCO_2$, or less than 0.1% of total fossil-fuel CO_2 emissions. If those future plants designated by the Global CCS Institute as in a stage of "advanced development" were all to proceed to construction and then full operation, capture rates could rise by an additional 47 $MtCO_2$, bringing the total to a little over 0.2% of current annual fossil fuel emissions. However, these values include both geological storage and the use of captured CO_2 for 'enhanced oil recovery'. Considering only CO_2 actually stored geologically reduces the 37 $MtCO_2$ to a little over 7 $MtCO_2$, or under 0.02% of energy-related CO_2 emitted in 2021. As for the future projects, and again assuming they are proceed to full operation, then in terms of storage, by 2030 the total is set to rise to around 45 $MtCO_2$, or a little over 0.1% of current emissions [35].

Despite bold promises of its potential, CCS on fossil fuels has yet to deliver more than a few million tonnes of CO_2 actually stored.

All of this is far-removed from the long-standing enthusiasm for CCS as a cornerstone of the decarbonisation agenda. Yet, and despite the long history of over-promising and under-delivering [36], this enthusiasm remains unchecked.

3.3.1 CCS: too little too late

The primary remit of this report is reducing emissions in line with not exceeding 1.5°C. This entails rapid decarbonisation, beginning now and being all but complete within one to two decades. Such a tight timeframe is inconsistent with any realistic interpretation of the roadmaps of CCS-based power generation or blue hydrogen production.

The remaining carbon budget for 1.5°C is too small to allow time for CCS to make an impact on fossil fuel emissions.

Furthermore, power generation is the one area of energy supply where very low or zero carbon alternatives actually exist, and at prices that are already competitive. Adding both the significant capital cost of CCS to existing or even new facilities, alongside the major energy penalty of CCS-based generation (i.e. much higher costs/kilowatt hour), further reinforces the cost-competitiveness (and energy security benefits) of renewables.

As such, bolting on what is in effect an inefficient and expensive filter to prolong the life of fossil fuels is very much an 'end-of-pipe' approach, more reminiscent of the last century than the system-level considerations of this century.

3.3.2 The very high lifecycle emissions of CCS

While it may be possible to reduce operational emissions of CO_2 by around 90%, this still leaves a significant residue of CO_2 released to the atmosphere[19] [37]. Given the need for all GHGs to be eliminated globally, with only residual emissions from agriculture remaining, then the high lifecycle emissions associated with CCS (typically 100–300 gCO_2e/kWh [38]) make it unsuitable for all but very marginal roles.

3.3.3 A tonne emitted from CCS is a tonne that cannot be emitted elsewhere

A further consideration in terms of CCS within the energy system is how low- or zero-CO_2 options for power generation are far more advanced than are the alternatives for fossil fuels in other sectors, particularly transport. Consequently, every tonne of CO_2 emitted from a power station (even with CCS) is a tonne that cannot be emitted from transport or industry. Since electricity generation has many more options for easier and earlier decarbonisation, this misappropriation of the scarce carbon budget works against a system-level transition to zero carbon energy.

3.3.4 The potential merits of CCS on cement

CCS will be needed to mitigate ongoing process emissions from cement, for which there is no ready alternative.

The role of CCS in eliminating process emissions from industry, particularly cement manufacture, is subject to different conditions to that for power generation. As it stands, CCS looks set to be a key technology in addressing

the 4% of global CO_2 emissions released from the chemical reactions in cement production.

3.4 CDR and CCS: summary

In short, this report eschews the substitution of deep cuts in emissions today for CDR and CCS tomorrow. Rather, it faces the mitigation challenges head on, navigating the highly constrained space between an equitable and practical distribution of the rapidly dwindling carbon budgets.

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[15] The UNFCCC was adopted at the UN in New York in May 1992, opened for signatures in Rio in June 1992 and finally entered into force in March 1994.

[16] For example, the new (Sept 2021) Orca power plant in Iceland, which captures around 4000 tonnes of CO_2, or the equivalent of around 0.00001% of global CO_2 emissions from fossil fuels. Ostensibly higher levels of actual removal occur at the ADM bioethanol plant in Illinois in the USA. Here in the region of 0.5MtCO_2/yr have been successfully captured and stored, with the operational capacity to increase to 1MtCO_2/yr [60]. However, there is little full life-cycle information available to determine the net levels of CO_2 removal, with the plant's total CO_2 emissions actually rising in recent years (to over 4MtCO_2/yr), likely due in part to the wider activities it undertakes, but also the energy required for the capture and storage. The ADM plant certainly demonstrates how, when rich CO_2 streams exist from biomass processing, it is possible to capture and store the CO_2. However, the application of CCS on the *combustion* of biomass (or indeed fossil fuels) presents a very different engineering challenge (with much lower concentrations of CO_2 and more contaminants), yet it is this approach that dominates the high-level mitigation models.

[17] Or at least a crop with very limited biodiversity.

[18] For example, issues of albedo and 'volatile organic compounds' (VOCs). See [29] for more details.

[19] Sustained capture rates above 90% are theoretically possible, but would very likely go along with a significant increase in both indirect greenhouse emissions and cost.

4 Splitting the global carbon budget between fossil fuel types

This section explains the key methodological assumptions and reasoning used in this analysis to estimate production-specific emissions budgets.

4.1 Rationale for 'production budgets'

This project is primarily concerned with the production side of the emissions equation. At the global level, annual production is in lockstep with annual consumption of fossil fuels. That is to say, fuel is extracted in quantities more or less equal to the market consumption of that fuel. This is largely because of physical and economic limits on storage, whereby there is simply not capacity to store significant surpluses of fossil fuels over and above the national capacity buffers that are held as a matter of course. What limited additional storage facilities exist are filled to capacity by as little as a few months' surplus production for oil and gas [39], or a few weeks for coal [40]. Oversupply therefore leads to falling prices and rapidly scaled down production volumes. The empirical data on annual production and consumption volumes neatly bear out this one-for-one relationship[20].

Fossil fuels cannot be stored in large quantities, so annual production and consumption globally are closely related.

At the global level then, for all practical purposes, fossil fuel production and consumption are equivalent. It is therefore taken as a premise of this work that whatever quantity of fossil fuels is produced in a given year is consumed in that same calendar year[21]. By applying an appropriate emissions factor to each fuel type, one can then calculate the amount of CO_2 that will be released into the atmosphere when the relevant quantity of produced fuel is combusted. Physical restrictions on storing excess production are again relevant here. Since significant surplus production cannot be stored, and apart from the very small fraction of fossil fuels that is diverted to non-energy end uses (and, importantly, that are not combusted at end of life – see §4.1.1 below), it is a matter of inevitability that, once extracted, a fossil fuel will be combusted.

Once extracted, fossil fuels are inevitably combusted.

This being so, the global budgets for CO_2 (Table 1) from fossil-based energy use can be straightforwardly applied to fossil fuel *production* at the global level just as well as to consumption. By translating production volumes into their inevitable emissions outcome using appropriate fuel-specific emissions factors, one can quantify the maximum amount of fossil fuels that may be extracted globally while respecting given temperature-derived carbon budgets [41]–[44].

Global CO_2 budgets for consumption can easily be applied to production.

A complete dataset of the total quantities of each fuel type produced and consumed, in thousands of tonnes of oil equivalent (ktoe), for two-hundred-and-thirteen countries was compiled from the IEA's World Summary Energy Balances 2020 [45]. The most recent year for which a complete dataset was available for both production and consumption of fossil fuels was 2018. It is

this year, therefore, that forms the baseline for all subsequent comparisons and pathway development in this project, unless otherwise stated. The energy equivalent values from the IEA were then converted into their emissions equivalent using IPCC emissions factors[22].

Fossil fuel production is usually expressed in units of energy or volume. Using appropriate emissions factors, these quantities can be converted into their equivalent CO_2 emissions.

4.1.1 Non-energy end uses of fossil fuels

Non-energy use refers to those fossil fuels used as raw materials in the manufacture of physical products rather than direct combustion for energy generation (as heat, electricity or motion). Globally, non-energy use averages around 6.4% of total energy supply [46], with the non-energy percentage of oil and gas being slightly higher and coal substantially lower than the aggregate. While this is a non-negligible fraction of the total quantity of fossil fuels extracted each year, it would be misleading to suppose that 'non-energy use' (or sometimes 'non-combustion end use') means that the feedstocks do not ultimately result in CO_2 and other GHG emissions.

It is an open question exactly what portion of non-energy end use fossil fuels are sequestered in stable form as physical products, buildings or infrastructure (such as roads). However, a large proportion of non-energy fossil fuel use is ultimately incinerated at the end of the useful life of the products[23]. Around one quarter of plastics produced annually is incinerated, which releases embedded carbon to the atmosphere[24]. Even the heavy hydrocarbons in road materials such as asphalt and bitumen undergo slow biodegradation in situ, which also gives rise to CO_2 emissions.

As a general principle, this project adopts a pragmatic but precautionary approach to uncertainty, which is appropriate in view of the high uncertainties around earth system feedbacks in the AR6 carbon budgets, and around the consequences of short-term overshoot of given temperature thresholds. Therefore, at the global level, we assume the total quantity of fossil fuel production to be equivalent to the emissions from combusting that same quantity of fossil fuel in any given year. In any case, the proportion of non-energy use fossil CO_2 that remains permanently locked up in durable products is considered too small to materially affect the outcome of the analysis here.

The amount of fossil fuels diverted to non-energy end uses and which remain unburned is negligible from a global carbon budget perspective.

4.2 Phaseout schedules, end dates, pathways and budgets

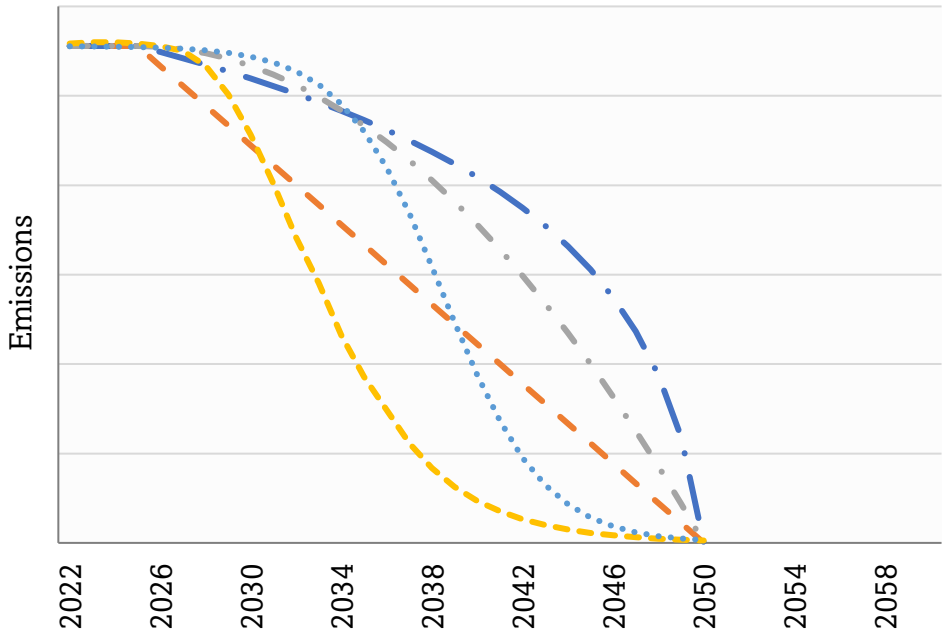
The remit of this research was to identify appropriate phaseout schedules for oil and gas production in order to comply with specific temperature-constrained emissions budgets. While the concept of an 'end date'[25] can be useful for policymaking, it must be treated with a degree of caution. Put bluntly: the climate is indifferent to the end year for production (or indeed consumption) of fossil fuels; it takes notice only of the cumulative quantity of carbon added to the atmosphere over and above pre-industrial levels. As such,

whether fossil fuels end in 2030 or 2080, what matters is not the end date *per se*, but the total emissions released into the atmosphere up to that point.

When we plot annual emissions associated with production or consumption of fossil fuels on a graph, the line or curve that joins the yearly amounts is known as the emissions pathway (sometimes, emissions trajectory). The pathway is how annual emissions vary (ideally decline) over time until they reach the final zero date, or some other specified end point. In this regard, end dates are a function of the available carbon budget and the rate at which it is depleted over time.

End dates for production (or consumption) mean little without an accompanying budget and pathway.

There is a wide variety of emissions pathways that can lead to the same end date or zero year (see Figure 1 below), but they describe very different cumulative emissions burdens, which in turn have very different consequences for global warming. Thus, the production end dates assessed in this study are relevant to a given climate outcome *only if* the stated pace of emissions reductions (expressed as the pathway) between now and that year is adhered to. If mitigation were to lag in the short term, then the 'end date' would have to come earlier to stay within the overall carbon budget.



Strikingly different budgets and pathways can have the same end date. The climate is sensitive only to the cumulative emissions, or budget.

Figure 1: Example of five stylised emissions pathways with the same end year, but with markedly different cumulative emissions.

Nevertheless, given the constraints of small and dwindling carbon budgets for desirable probabilities of 1.5°C and 2°C, the variety of *plausible* pathways for emissions from fossil fuel production is limited. That is to say, there is virtually no scope for increasing emissions in the short term without requiring overnight cessation of emissions at the 'eleventh hour'. For the smaller

budgets, there is no scope for anything but immediate deep and rapid reduction in emissions from all forms of production, without bringing the world's energy system to a socially devasting 'hard stop' once the budget is all too quickly consumed.

There are few plausible pathways that are still compatible with 1.5°C. Since we can't end fossil fuel emissions overnight, pathways must show year-on-year reductions.

Thus, the envelope of viable pathways for a given budget with a given zero year is effectively constrained by the imperatives of:

(i) ensuring an ecologically sustainable energy supply for the post-fossil era; and
(ii) ensuring a just transition for those whose livelihoods currently depend on fossil fuel extraction; and
(iii) ensuring viable and ecologically sustainable pathways broadly consistent with the tenets of CBDR-RC.

How these considerations feed into the formation of plausible pathways for ending fossil fuel production is discussed in more detail in section 6 below. There we look at fundamental principles of equity and methods for estimating the differing capacities of producer nations to facilitate a just transition away from fossil fuel production for their societies. For now, it is sufficient to remember that when we get to zero production matters less than how we get there.

4.2.1 Heuristic, not predictive, pathways

The pathways in this report are illustrative rather than precisely prescriptive for individual nations.

Another important point to note about all the pathways presented in this report is that they serve as heuristic tools to understand the relationship between annual emissions (associated with a specified activity) and the global emissions budgets associated with given temperature targets. They are not intended to prescribe precise budgets or pathways for specific nations, but rather to explore the consequences of certain trends and policies.

A key advantage of such relatively simple heuristic pathways is that they render transparent both the problem of fitting production within the remaining global emissions budget, and the assumptions involved in robustly addressing that problem. This stands in contrast to highly complex and inaccessible bottom-up system models.

4.3 Coal budgets – a necessary first step

A key assumption for this analysis was that coal, as the most carbon intensive and least energy efficient fossil fuel type, should be phased out as a higher priority than oil and gas. Coal-fired electricity generation has already been phased out in a number of industrialised, wealthy countries that once relied on it. Building on this, there is now a growing political consensus that in order

to address the climate emergency coal must be phased out as a priority in all countries that continue to use it [8].

To estimate how much emissions budget there is left for oil and gas, we first looked at how quickly coal production could realistically be phased out .

While the main focus of this analysis is oil and gas production, establishing implications of possible phaseout schedules for coal was an important preliminary step in determining the carbon budgets and functional end dates for oil and gas.

4.3.1 Coal production in Developed and Developing Countries

It is important to note that coal is both produced and consumed disproportionately by the poorer countries of the world. Using the categorisation developed in *Factor of Two* for classifying countries as 'Developed' or 'Developing'[26], 72% of coal *production* occurred in the group of Developing nations in our baseline year (2018), with 28% in Developed.

Coal is both produced and consumed disproportionately by developing countries.

As a side-note, this analysis also showed that 74% of coal energy was *consumed* in Developing countries. The small net transfer of coal from Developed to Developing countries notwithstanding, levels of domestic coal production and consumption are closely related for most countries that have any significant proportion of coal in their primary energy mix. Put simply, countries that use a lot of coal tend to be those that have a lot of coal reserves. Coal is much less traded internationally than oil or gas – a simple consequence of its comparatively greater bulk and mass (and hence higher transport costs) than for the quantity of oil or gas with equivalent energy content.

Developing countries' favouring of coal consumption as a 'fuel of choice' may be attributed a range of factors, including: the lack of available and affordable alternatives to coal-fired power generation; limited access to capital for new technology; and the urgent need to increase energy consumption to address issues of poverty.

4.3.2 Coal pathway assumptions

Coal phaseout was pushed as hard as we judged it possible to deliver.

For each of the three temperature-constrained scenarios in this report (§2.3), a pragmatic judgement was made as to the fastest phaseout pathway for coal production in both Developed and Developing country groups. A number of key constraints and considerations that fed into the iterative process of developing the phaseout pathways are described in the following subsections.

4.3.2.1 Relevance of consumption to coal production phaseout schedule

While the explicit focus of this work is on production, in the case of coal the aforementioned close connection between domestic production and consumption was an important factor to consider in developing plausible phaseout pathways. That is to say, because Developing countries with coal

reserves tend to use them principally for their own energy supply, the phaseout pathway has direct and immediate implications for energy *consumption* in those countries and hence their ability to meet the basic development needs of their citizens.

In our analysis, coal is phased out faster for developed countries than for developing countries.

Conversely, very few Developed countries rely heavily on coal production for their domestic energy consumption needs (Poland being a notable exception). The greater economic capacity of Developed countries to implement alternatives to coal to supply their energy needs means that a faster pace of shutdown for coal production in those countries is deemed appropriate.

4.3.2.2 Powering Past Coal Alliance declaration

Members of the Powering Past Coal Alliance (PPCA) have adopted a phaseout timeline for coal power generation in OECD and EU countries by 2030 and in the Rest of the World by 2050[27]. This was based on Rocha et al's [47] estimate of Paris-compatible timelines for ending coal use (Rocha et al also proposed a 2040 phaseout date for China).

Our assumptions about coal production phaseout schedules and end dates track the growing international consensus on phasing out coal's use for power generation.

The PPCA timelines provide a useful backdrop against which to situate the coal production phaseout pathways developed here. However, there are several important methodological differences between the present research and that by Rocha et al, (underpinning the PPCA declaration) that make direct comparison problematic. The foremost divergence is that Rocha et al's analysis and the PPCA itself relates to coal *use* with the main focus being, understandably, on power generation, whereas the focus of this project is explicitly on production.

Second, Rocha et al define the 'phaseout year' as the year in which the reduction in emissions from coal consumption is 90% or more against a baseline year of 2015. This differs subtly but importantly from our 'functional zero year', defined as the first year in which coal (or oil and gas, as the case may be) *production* is less than or equal to 5% of 2018 production. Noting that OECD coal production fell by 10% between 2015 and 2018, the Rocha et al baseline (transposed to production) is around 11% greater than the 2018 one used here[28].

Finally, China, notwithstanding its crucial role as the world's biggest producer and consumer of coal, sits squarely in the Developing countries category and is therefore treated as such in our present analysis, rather than being placed in a separate 'category of one' as in Rocha et al.

4.3.2.3 Sectoral share as a constraint on coal phaseout pathways

Recalling that the climate responds only to cumulative emissions, in developing the phase-out pathway for coal close attention was paid to its share of the global carbon budget, as well as to the remaining budget space for oil and gas. A key constraint was that in no temperature scenario was coal allowed to take up more than its current proportion of production emissions.

For each scenario, we do not allow coal to consume more of the global emissions budget than its current annual share.

	Share of total emissions in 2018	50% 1.7°C scenario	50% 1.5°C scenario	67% 1.5°C scenario
Coal	41%	37%	40%	41%
Oil	38%	41%	39%	38%
Gas	21%	22%	21%	21%

Table 2: Share of global emissions budget by fossil fuel type at baseline and under three temperature-based scenarios.

4.3.2.4 Developing Countries' peak coal production year

Accepting the close correspondence between coal consumption and production for Developing countries, pathway development for that group included a sensitivity analysis of the effect of delaying the year of peak production. Delaying the peak of Developed countries' coal production was found to be an option only in the 1.7°C scenario, with production held constant at 2018 levels until 2025. Under the much tighter constraints of 1.5°C scenarios, any delay in the year of peak production saw coal exceed the limit of 42% of the global budget (4.4.2.3), and by extension substantially reduce the remaining proportion of emissions space for oil and gas. Therefore our coal phaseout pathways in both of the 1.5°C scenarios have peak coal production in 2022 for Developing and Developed country groups alike.

The slightly larger budget for a 50% chance of 1.7°C allows a few more years before developing countries must start winding down their coal production. This is not an option for a 50% or better chance of 1.5°C – reductions must begin immediately.

Once plotted, the coal phaseout pathways rendered 'emergent budgets' for both Developed and Developing country groups (i.e. the cumulative emissions from coal production), as represented by the areas under the curves in Figure 2 below.

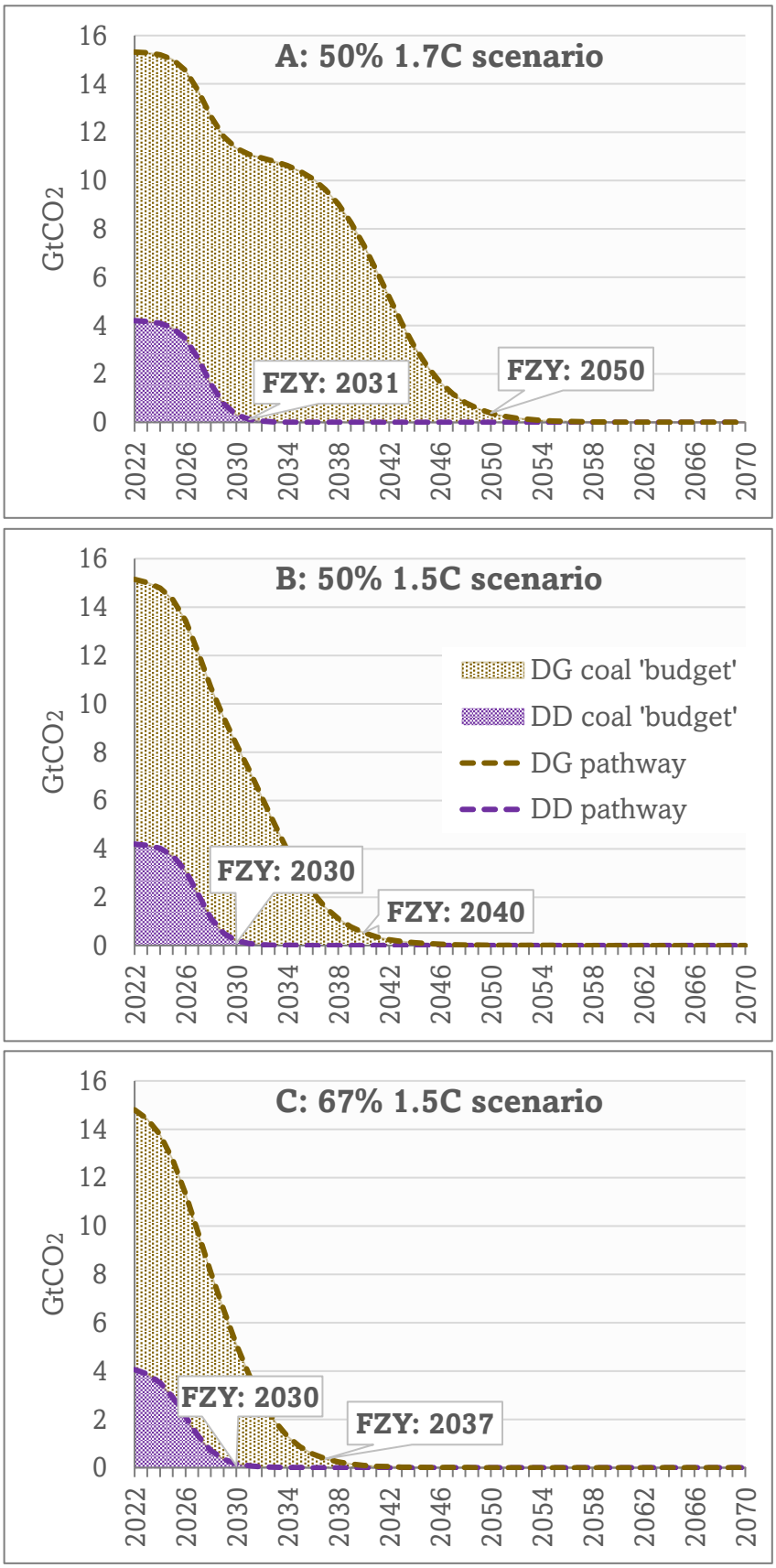


Figure 2: Coal production phaseout pathways and respective 'budgets' for Developed (DD) and Developing (DG) countries under three temperature scenarios.

NB: FZY = Functional Zero Year (<5% of 2018 baseline). See endnote 29 for note on the distinctive pathway shape in panel A (50% 1.7°C scenario).

4.4 Oil and gas budgets

The cumulative emissions totals from the coal phaseout pathways were then subtracted from the global carbon budgets (for the respective temperature scenarios) leaving a budget for oil and gas production combined.

Global budgets for oil and gas production over the rest of the century were obtained by subtracting coal emissions from the overall global budgets (based on IPCC AR6).

Further disaggregation into oil and gas separately was not undertaken in this analysis, because:

(i) most producer nations with one fuel (oil or gas) also have the other, and it was not deemed sensible to be prescriptive about which fuel type producer nations should prioritise.

(ii) it was decided to limit the number pathways and variables to ensure clarity of presentation and communication.

(iii) compelling reasons for favouring one fuel over the other, relative to their current shares, could not be found. See Appendix 1: Key sensitivities for more details of limitations and alternative assumptions.

Oil and gas are therefore treated in combination (summing to the non-coal emissions budget) in all scenarios in this report.

	Budget ($GtCO_2$) : 50% 1.7°C scenario	**Budget ($GtCO_2$): 50% 1.5°C scenario**	**Budget ($GtCO_2$): 67% 1.5°C scenario**
Coal	249	145	108
Oil & Gas	422	215	154

Table 3: global CO_2 production budgets for coal and oil & gas (combined) in three core scenarios.

NB: budgets as of January 2022.

These oil and gas budgets are then taken as the starting point for the disaggregation to groups of producer nations (§6).

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[20] For this project's baseline year of 2018, the amount of each of the three primary fossil fuel types produced was within 1% of the amount consumed globally, according to the IEA's World Summary Energy Balances 2019. Specifically, global coal production was 1.2% *below* consumption; global oil production was 0.6% above consumption; and global natural gas production was 1.1% above consumption.

[21] This is an expedient simplification: clearly a barrel of oil or tonne of coal extracted in say mid-December of one year may not enter the fuel supply chain and reach its final point of end use (combustion) until the following year. However, from one year to the next this 'carry over' simply cancels out, as the historical records on global production and consumption show.

[22] IPCC default emission factors for stationary combustion in the energy industries (tCO_2 / toe): bituminous coal 3.96; crude oil 3.07; natural gas 2.35 [61].

[23] Combustible non-energy products include plastics, lubricants, waxes, solvents, adhesives, paints, paper coverings and packaging [41].

[24] The amount of plastics recycled worldwide is low at around one fifth of annual production, while just over half ends up in municipal landfills or as litter. Most plastics do not break down in nature, so landfilled plastic is unlikely to release CO_2 directly [46].

[25] The terms 'end date', 'end year', 'phaseout year' or 'zero year' are used variously throughout the literature and dialogue on decarbonisation. They are treated synonymously in this report, except where otherwise specified.

[26] Countries were assigned to either 'Developed' (DD) or 'Developing' (DG) categories firstly according to their status as Annex 1 or non-Annex, with a refinement and subsequent reallocation from DG to DD of a small number of oil-rich, wealthy, non-Annex 1 nations whose HDI score exceeded the mean value for Annex 1 nations. This reallocation produced the new categories 'DD2' and 'DG2' in *Factor of Two*, which are the categories adopted here. Appendix C of *Factor of Two* contains the full country list; the categories of the producer countries relevant here can be found in Appendix 2: key data at the end of this report.

[27] In a post-SR1.5 update to the 2016 Rocha et al study, Yanguas Parra et al [62] found that, for compatibility with 1.5°C goals, coal use must be ended by 2030 in OECD (basically Developed) countries and by 2040 at the latest in non-OECD (Developing) countries. The 10-year earlier end date for Developing countries has yet to be adopted into the PPCA declaration.

[28] The coal phaseout pathways developed in this analysis reached functional zero years not later than the Rocha et al / PPCA phaseout years in all but one case. The exception was the Developed countries' coal pathway under the 67% chance of 1.7°C scenario, which reaches functional zero in 2031. However, against a 2015 baseline and 90% reduction phaseout threshold as per Rocha *et al*'s analysis, that pathway's phaseout year would be 2030.

[29] The coal pathways for a 50% chance of 1.7°C are slightly different from the pathways for the 1.5°C budgets, in that Developing countries' emissions from coal production are held constant from 2022 until 2025, when they begin their decline – essentially a delayed peak year. This gives the characteristic 'humped' shape of the stacked area chart of the budgets in Panel A of Figure 2. Under 1.5°C global budgets there was insufficient leeway to allow this delayed peak year for Developing countries' coal.

5 Dividing the global carbon budget between producer nations

Summary: this section explains the rationale and the methodology for grouping countries, before going on to present the five groups.

5.1 'Location independence': international trade of oil and gas

Oil and gas are more widely traded than coal. Constraining a country's production need not mean a corresponding immediate constraint on their use of oil and gas.

Whereas §4.4 identified the typically close correspondence between the country of production and country of consumption in the case of coal, national energy data demonstrates this is not true of oil or gas. Oil in particular is a widely-traded global commodity and is relatively cheap to move from port to port. Gas is traditionally more costly to move across and between continents, since pipelines are expensive to construct, in significant part because of the high capital cost of constructing pipelines and associated infrastructure. However, the growth of liquefied natural gas (LNG) production and marine transportation by tanker have led to increasing 'commodification' of the international gas market. International trade in gas has grown as a consequence, although it remains a markedly less traded fuel than oil.

For these reasons, production of oil and gas is taken to be largely independent of consumption. This is important when considering access-to-energy and the development implications of the phaseout pathways presented here[30]. Since oil and gas are widely traded (more so oil than gas), a country's energy needs are effectively indifferent to where the oil or gas is produced. This 'location independence' forms an important premise of this analysis. Countries will still be able to access oil and gas on the international market, at least to the extent that oil and gas continues to be available (ultimately constrained by the oil and gas budgets and the accompanying phase-out pathways). In short, constraining production of some nations more than others does not lead, necessarily, to a corresponding limitation on their access to oil and gas[31].

5.2 Oil and gas phaseout pathways and equity

The principle of equity dictates that developed countries, with the greatest abilities to decarbonise, should make both bigger and sooner emissions reductions than developing countries.

The principle of 'common but differentiated responsibilities and respective capabilities' (CBDR-RC) makes plain that Developed Countries, with greater socio-economic capacity to mitigate, should make both bigger and earlier steps to decarbonise than Developing Countries (with less capacity) Moreover, the principle requires that Developed Countries provide financial support to enable Developing Countries to implement effective mitigation while continuing to pursue sustainable development and poverty eradication.

While usually applied to the consumption or energy use side of the equation, CBDR-RC can reasonably be taken to apply to the production side too. The key difference in applying CBDR-RC to production is that, whereas all

countries are consumers of fossil fuels (therefore have emissions associated with energy use), only a minority of countries are producers of fossil fuels.

Equity can be applied to production phaseout schedules, to reflect differing abilities or capacities to make a just (or fair) transition for oil and gas industry workers.

Considering only producer countries, CBDR-RC can be reasonably interpreted as requiring those nations with the greatest capacity for a just transition away from oil and gas production doing so earlier and more rapidly than those nations with less capacity to make a just transition.

With this as a guiding principle, we quantify the 'capacity' to make a just transition for oil and gas producing nations and to classify them accordingly. It may also be noted that much of the production in the 'Global South' is carried out by 'Northern' multinational corporations, such that many of the benefits accrue outside the country of extraction. While our analysis focuses on managing the transitional impacts in-country, further research could usefully differentiate between production by foreign companies, domestic private sector and state-owned companies [48], [49].

95% of global oil and gas production occurs in just 33 countries.

Of total global oil and gas production, 95% takes place in just thirty-three producer nations. However, there are many developing countries lower down the list of producers, in which oil and /or gas production makes an important contribution to their national economy, while not being internationally significant in quantity. It was therefore decided to extend the list to capture the top eighty-eight producer nations, thereby accounting for 99.97% of all oil and gas production.

5.3 Quantifying capacity to make a just transition

Seeking to quantify countries' capacities to make a just transition away from oil and gas production, several approaches were explored. Muttitt and Kartha compared producer countries along dimensions of overall capacity to fund a just transition (expressed as GDP per capita) and their level of dependence on income from oil and gas production (expressed as the share of government spending budget derived from oil production) [50].

A similar approach was considered here, but data on the second metric was lacking for the full list of producer countries in this analysis. In addition, government spending alone was considered to capture only part of the full extent of a country's 'dependence' on production, and one that was largely contingent on individual country's tax regimes and structuring of their national oil companies.

Hence, the net was cast wider in seeking a metric that would capture a fuller picture of how intrinsic oil and gas production are to a country's present economy, taking into account jobs supported in auxiliary sectors as well as

those directly employed in the upstream extraction industry itself. Since no such comprehensive dataset was found to exist, it was determined to obtain from scratch country by country values for the percentage share of GDP contributed by the oil and gas production sector. This was done by structured web-search, whereby reputable internet sources for each producer country's share of GDP from oil and gas were sought and, where possible, cross referenced.

5.3.1 'Non-oil GDP per capita' – a useful metric of capacity

For our analysis we developed a new measure of countries' capacities to transition away from oil and gas production, based on the contribution of oil and gas to national GDP.

Ultimately, values for GDP from oil and gas were found or inferred for sixty of the eighty-eight producer nations in this study. The remaining twenty-eight nations, for which no useful data could be found, collectively comprise only 1.7% of global oil and gas production. In each case where no useful quantitative data could be obtained, there was sufficient reason to consider the relevance of extraction to the economy in question to be very minor indeed (less than 1%). As such, a generous allowance of 1% contribution to GDP from oil and gas was applied to each country for which no data was recorded.

See column 8 of Table 7 in Appendix 2: Key data for the complete list of values. See §10.1.6 in Appendix 1: Key sensitivities for details of the caveats relating to this dataset.

The percentages of GDP from oil and gas production were then applied to each nation's GDP per capita (purchasing power parity, current USD) to give the share of GDP per capita that effectively is independent of a country's production industries. This value, which we refer to as 'non-oil (and gas) GDP per capita', is adopted here as the metric of a country's capacity to fund a just transition even without benefit of its production related national income. As a per capita figure, in essence it represents each country's relative 'net-capacity' to fund a just transition once its entire GDP share from oil and gas production is discounted.

Table 4 shows the top thirty-three countries according to production volumes as a share of the global total oil and gas production in our baseline year (i). This is juxtaposed against the thirty-three countries with the highest proportion of GDP from oil and gas (ii) and the thirty-three countries with the highest non-oil GDP per capita at PPP, 2019, current international dollars (iii). This partial snapshot of the full list of eighty-eight nations represents all producer nations with non-oil GDP per capita above the mean. The right-hand two columns (iv and v) indicate whether a country in the list of non-oil GDP per capita (iii) also appears in the lists (i) and (ii), and if so its ranking in those lists.

Rank	(i) Top 33 producers by share of global oil & gas production[32]		(ii) Top 33 producers by share of national GDP from oil & gas (dependence)[33]		(iii) Top 33 producers by non-oil GDP/capita, PPP, 2019, current $ (capacity)[34]		(iv) Top 33 by % of global production?	(v) Top 33 by dependence on O&G?
1	United States	17.9%	Iraq	65%	Ireland	$90,894	No	No
2	Russia	14.8%	Congo	65%	United States	$60,098	Yes (1)	No
3	Saudi Arabia	8.5%	Brunei	60%	Denmark	$59,139	No	No
4	Canada	5.4%	Equatorial Guinea	60%	Netherlands	$58,922	No	No
5	Iran	5.1%	Libya	60%	Austria	$58,098	No	No
6	China	4.1%	South Sudan	60%	Qatar	$57,065	Yes (9)	Yes (11)
7	Iraq	3.1%	Saudi Arabia	50%	Norway	$56,678	Yes (10)	Yes (29)
8	UAE	3.0%	Gabon	50%	Germany	$55,664	No	No
9	Qatar	2.8%	Angola	50%	Australia	$51,131	Yes (17)	No
10	Norway	2.5%	Azerbaijan	44%	France	$49,199	No	No
11	Kuwait	2.1%	Qatar	40%	United Kingdom	$48,020	Yes (21)	No
12	Brazil	2.0%	Kuwait	40%	UAE	$46,618	Yes (8)	Yes (19)
13	Algeria	2.0%	Trinidad & Tobago	40%	Canada	$46,385	Yes (4)	No
14	Nigeria	1.7%	Oman	36%	Bahrain	$46,234	No	Yes (32)
15	Mexico	1.7%	Timor-Leste	36%	South Korea	$44,127	No	No
16	Kazakhstan	1.6%	Turkmenistan	35%	Italy	$43,775	No	No
17	Australia	1.5%	Algeria	30%	Japan	$43,273	No	No
18	Venezuela	1.4%	Chad	27%	New Zealand	$43,125	No	No
19	Indonesia	1.3%	UAE	27%	Israel	$41,368	No	No
20	Malaysia	1.2%	Venezuela	25%	Estonia	$36,941	No	No
21	United Kingdom	1.1%	Yemen	24%	Poland	$34,278	No	No
22	Egypt	1.1%	Egypt	24%	Hungary	$33,984	No	No
23	Oman	1.0%	Iran	23%	Romania	$30,931	No	No
24	Turkmenistan	1.0%	Ecuador	21%	Croatia	$29,626	No	No
25	Angola	1.0%	Malaysia	20%	Turkey	$29,426	No	No
26	Libya	0.9%	Russia	19%	Kuwait	$27,611	Yes (11)	Yes (12)
27	India	0.9%	Papua New Guinea	18%	Chile	$24,719	No	No
28	Argentina	0.8%	Uzbekistan	16%	Saudi Arabia	$24,608	Yes (3)	Yes (7)
29	Colombia	0.7%	Norway	14%	Brunei	$24,413	No	Yes (3)
30	Azerbaijan	0.7%	Kazakhstan	13%	Kazakhstan	$23,662	Yes (16)	Yes (30)
31	Uzbekistan	0.7%	Indonesia	12%	Malaysia	$23,234	Yes (20)	Yes (25)
32	Thailand	0.5%	Bahrain	11%	Russia	$22,988	Yes (2)	Yes (26)
33	Trinidad and Tobago	0.4%	Brazil	10%	Argentina	$22,123	Yes (28)	No

Table 4: Top thirty-three producer nations ranked according to: (i) share of global oil & gas production; (ii) share of GDP/capita from oil and gas; (iii) non-oil GDP/capita.

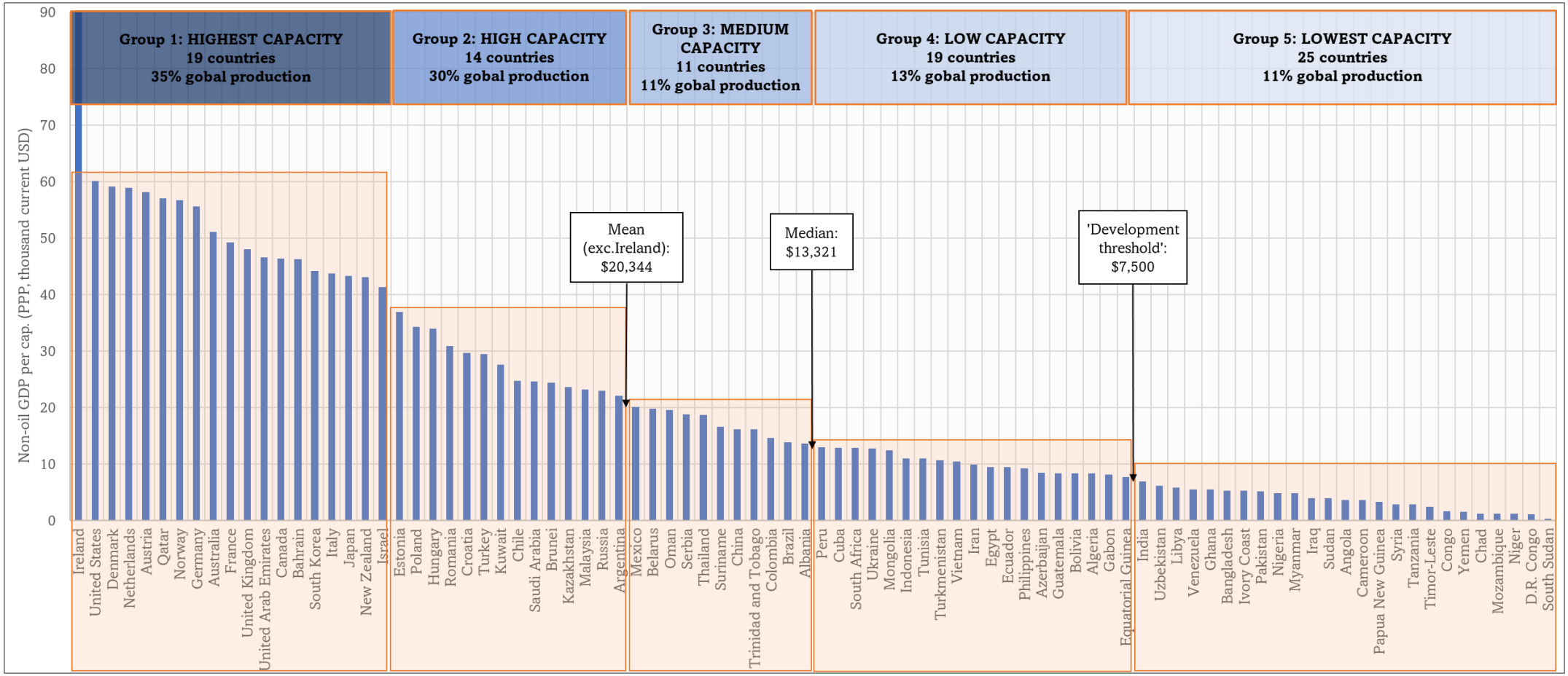

Figure 3: Grouping of producer countries by non-oil GDP/capita

5.4 Ranking and grouping countries by non-oil GDP/capita

Non-oil GDP per capita of the top eighty-eight producer countries is shown in Figure 3, arranged in descending order left to right. Superimposed on the data columns in the Figure are groupings 1 to 5, reflecting subsets of producer countries with broadly comparable values for non-oil GDP per capita. Although in some cases the difference between the bottom of one group and the top of the next is less than the differences within the groups, the boundaries were not imposed arbitrarily.

We split the top 88 oil and gas producing countries into five groups according to the size of their economies excluding the contribution from oil and gas.

Two of the four crucial breakpoints for country groupings are based on simple arithmetic averages: the mean and median. Of these the mean is the most salient, since countries whose non-oil GDP/capita is below the mean are taken to have less capacity than average (for all producer nations) to enable a just transition. This key observation informs a pivotal assumption in the next methodological step, whereby production phaseout pathways are developed for each country group reflecting their capacity to transition relative to the mean (see §6.2).

In short, countries whose non-oil GDP/capita is above the mean are expected to transition away from oil and gas production faster than countries below the mean, with countries below the median value taking longer than countries between the mean and the median.

In addition to the mean and median values, a third breakpoint was introduced at a level of GDP per capita intended to reflect the 'global poverty line', set at $7,500 to coincide with the default 'development threshold' in Holz et al's Climate Equity Reference Calculator [51]. Countries whose non-oil GDP/capita is below this threshold are assumed to have the least capacity to transition away from oil and gas production and will follow slower phaseout pathways than the other four groups.

Finally, the fourth division (between the highest capacity groups, one and two) was placed at the observed inflection point in the side-by-side rankings in Figure 3, where a somewhat larger jump occurs in the values between Estonia and Israel than between their next closest country.

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[30] For example, country A produces 1 $GtCO_2$ equivalent of oil each year but consumes only 0.5 $GtCO_2$ equivalent of oil in the same period. Country B produces 0.5 $GtCO_2$ worth of oil but consumes 2 $GtCO_2$ worth each year. Global trade in oil and oil products balances out these surpluses and deficits.

[31] This analysis does not look in detail at how the energy consumption emissions pathways of countries, whether they be producers or non-producers, fit within temperature-constrained global budgets. Note: throughout this report, where the word *consumption* is used it refers to the use of fossil fuels as distinct from the *production* of fossil fuels. It is not intended in the sense of 'consumption emissions accounting' (as distinguished from 'territorial emissions accounting' or 'production accounting'), which refers to a method of including the emissions embedded in goods produced overseas within national end-use emissions inventories.

[32] Source: Extracted from [40]. See Table 7 in Appendix 2: key data for complete dataset of all eighty-eight producer nations.

[33] See Table 8 in Appendix 2: key data for a full list of sources.

[34] Source: authors' own calculations based on GDP/capita (PPP, 2019, current international dollar), WEO subject code PPPPC [59], and values for share of national GDP from oil and gas (list ii in Table 4). See Appendix 2 for complete dataset of eighty-eight producer nations.

6 Disaggregating production budgets among producer nations

This section explains how production budgets and phaseout schedules were developed for the country groupings above, including the mechanism by which rebalancing and delayed phaseout for the poorest countries was applied.

6.1 Establishing the starting position

A 'grandfathered budget' is each group's share of the remaining global budget based on its current percentage of total annual emissions.

For each of the country groupings 1 to 5 in Figure 3, the percentage of global oil and gas production in the baseline year (2018) was obtained. Based on these percentages, each group's 'grandfathered'[35] share of the emissions budget for oil and gas (§4.4) was calculated for each temperature scenario. The grandfathered budgets can be expressed as the number of years remaining at baseline levels of production (hereafter 'years of current production'), which serves as a useful unit of exchange in developing the phaseout pathways for the different groups.

As the grandfathered budgets are based on each group's current (or rather baseline year) share of annual production, all five country groups have an equal number of years of current production (particular to each temperature scenario) in their de facto 'starting position'.

However, the average capacity to enable a just transition (expressed as non-oil GDP per capita) of the highest capacity countries (Group 1) is estimated at fourteen times that of the lowest capacity countries (Group 5). Thus, phaseout pathways that preserved the status quo would clearly be highly inequitable, strongly favouring the wealthy Groups 1 and 2 and disfavouring poorer Groups 3, 4 and 5.

We made equity-based adjustments to each group's 'grandfathered budget' according to their respective capacities to make a just transition.

Therefore this stage of our analysis seeks to address the unfairness inherent in the status quo by developing pathways that allow longer for poorer nations to phaseout their oil and gas production than the richer nations.

6.2 Capacity weightings

In order to make proportionate adjustments to the de facto starting position, 'share of aggregate absolute deviation' was selected as an adequate mathematical proxy for each group's 'relative capacity to enable a just transition'. In essence this proxy functions as a 'capacity weighting' that can be used to redistribute the oil and gas budget to render new phaseout pathways more equitable than the status quo.

In practical terms, capacity weightings were calculated as follows.

(i) The absolute deviation was obtained for each group[36].

(ii) The absolute deviations of groups above the mean were summed (i.e. Groups 1 and 2).
(iii) Likewise, for groups below the mean (i.e. Groups 3, 4 and 5).
(iv) The capacity weighting for Groups 1 and 2 was their respective share of the sum of absolute deviations above the mean.
(v) The capacity weighting for Groups 3, 4 and 5 was their respective share of the sum of absolute deviations below the mean.

Therefore,

$$\text{CW G1\&2} = (x-\mu) / \Sigma_{1,2}(x-\mu)$$
$$\text{CW G3,4\&5} = (|x-\mu|) / \Sigma_{3,4,5}(|x-\mu|)$$

Where: x is the 'group mean non-oil GDP/capita' of each group 1 to 5 and μ is the 'mean of group means'.

We used each group's average value for capacity to transition to determine a simple ratio to redistribute the remaining global budget for oil and gas production.

	Number of countries	% total O&G production	Mean non-oil GDP/cap	Absolute deviation	Capacity Weighting
Group 1 Highest capacity	19	35%	$50,495	$28,661	0.83
Group 2 High capacity	14	30%	$27,753	$5,919	0.17
		Above mean ↑ ↓ Below mean			
Group 3 Medium capacity	11	11%	$17,086	-$4,748	0.14
Group 4 Low capacity	19	13%	$10,230	-$11,604	0.34
Group 5 Lowest capacity	25	11%	$3,605	-$18,229	0.53

Table 5: Capacity weightings of five groups of oil and gas producing countries according to share of aggregate absolute deviation.

6.3 Rebalancing the budgets: equity-based adjustments to the status quo

Redistribution of years of current production was then undertaken, with groups above the mean 'donating' budget space to groups below the mean. Here the capacity weighting serves as a ratio regulating the iterative process of redistribution. Thus, for each year of current production donated from the grandfathered Group 2 budget, 4.8 years of current production is donated by Group 1 (reflecting the ratio of the above-mean groups' capacity weightings, 4.8:1 being equivalent to 83:17).

The donated budget from Groups 1 and 2 is then summed and redistributed among Groups 3, 4 and 5 according to their respective capacity weightings (i.e. at the ratio of 14% to Group 3, 34% to Group 4 and 53% to Group 5).

In our temperature-constrained scenarios, the wealthier (most capable) producers in Groups 1 and 2 'donate' budget to the poorer producers in Groups 3, 4 and 5.

The extent of redistribution applied was the outcome of extensive deliberation and iteration by the research team, client and external stakeholders. Construction of a simple mathematical model permitted calibrated, stepwise increases of redistribution (governed by the capacity weightings), while monitoring the outcomes with respect to the pathway gradient (i.e. rate at which production is being closed down) and functional end dates consistent with the rebalanced budgets for each group.

The rebalanced budgets and pathways presented here are premised on a constant percentage redistribution of the sum of the above-mean groups' grandfathered budgets. That is, in each temperature scenario, a constant 20% of the combined grandfathered budgets of the above-mean Groups 1 and 2 is redistributed amongst the below-mean Groups 3, 4 and 5. Donation and benefit alike are governed by groups' respective capacity weightings.

Groups 1 and 2 donate 20% of their combined budget to the poorer Groups 3, 4 and 5.

Holding the percentage of above-mean budget redistribution constant means that the absolute amount of reallocated budget declines as the overall global budget tightens (for increasing probabilities of lower temperatures). Sensitivity analysis was conducted to explore the effects of increasing and decreasing the percentage of above-mean budget redistribution, and of varying the percentage inversely to the global budget (that is, smaller global budgets saw bigger percentage redistributions). Lower constant percentage reductions produced infeasibly early end dates for below-mean groups, while higher percentages gave infeasibly early end dates for above-mean groups under the tighter global budgets.

The budgetary adjustments in this part of our analysis are therefore an exploration of scenarios that are less inequitable than the starting position, or status quo. However, equitable rebalancing proves to be increasingly difficult under the tighter global budgets; indeed it becomes impossible if a budget with a good chance of 1.5°C is selected.

The differential pathways and their implications are discussed fully in §7.4. In summary: the higher the probability of 1.5°C sought, the more inequitable the budgets and pathways for poorer nations that fall within the bounds of 'feasibility' for all. This unavoidable inequitability strengthens arguments for financial reparations from developed to developing countries.

			(1) Headline AR6 global budget GtCO2 (2) Remaining from Jan 2022	Years of current production: grand-fathered	Donated Group 1&2 budget GtCO2	Donated share of Group 1&2 combined budget	Years current of production: rebalanced budget	Funct-ional zero year	Reduction 2030	Reduction 2035	Reduction 2040	Reduction 2045	Reduction 2050
50% 1.7C	COAL	DD	(1) 850 (2) 671					2031	92%	~	~	~	~
		DG peak						2025	~	~	~	~	~
		DG						2050	1%	7%	34%	79%	~
	OIL & GAS	Group 1		19.4	55	20%	13.2	2045	20%	52%	83%	~	~
		Group 2		19.4			18.1	2050	5%	20%	53%	83%	~
		Group 3		19.4			22.6	2054	1%	6%	23%	57%	85%
		Group 4		19.4			26.2	2058	0%	2%	9%	31%	67%
		Group 5		19.4			30.6	2062	0%	1%	3%	11%	35%
50% 1.5C	COAL	DD	(1) 500 (2) 361					2030	~	~	~	~	~
		DG peak						2022	~	~	~	~	~
		DG						2040	27%	73%	~	~	~
	OIL & GAS	Group 1		9.9	29	21%	6.6	2034	74%	~	~	~	~
		Group 2		9.9			9.3	2039	43%	85%	~	~	~
		Group 3		9.9			11.6	2043	28%	64%	89%	~	~
		Group 4		9.9			13.5	2045	18%	50%	82%	95%	~
		Group 5		9.9			15.9	2050	14%	35%	66%	87%	~
67% 1.5C	COAL	DD	(1) 400 (2) 261					2030	~	~	~	~	~
		DG peak						2022	~	~	~	~	~
		DG						2037	56%	92%	~	~	~
	OIL & GAS	Group 1		7.1	20	20%	4.8	2031	~	~	~	~	~
		Group 2		7.1			6.6	2034	76%	~	~	~	~
		Group 3		7.1			8.2	2037	53%	91%	~	~	~
		Group 4		7.1			9.5	2038	39%	86%	~	~	~
		Group 5		7.1			11.2	2042	28%	69%	93%	~	~

Table 6: Key model parameters and outputs across the three temperature scenarios, including functional zero years for all groups and fuels.

NB: DD = Developed countries / DG = Developing countries (see §4.3.1)

6.4 Fitting pathways to the rebalanced budgets

Like the grandfathered de facto budgets, the rebalanced budgets for each group produced by the redistribution model can be expressed as 'years of current production'. While the climate is agnostic as to how those budgets are 'spent' over time, there are of course many practical constraints on the shape of realistic phaseout pathways.

Oil and gas budgets can be expressed as 'years of current production', but a pathway shape is needed to understand how fast the budget will be used up.

The simplest stylised pathway would follow equal annual reductions – a straight line from current production to zero. Such a stylisation has limited value as a heuristic in practical terms, since it makes no allowance for system inertia or mitigation ramp-up rates. To keep to such a pathway, reductions must begin at maximum pace[37] as soon as the starting gun is fired and continue uniformly until the last barrel of oil is extracted.

In an attempt to offer more useful illustrative pathways, those we offer here incorporate a degree of system inertia and gradual ramp-up of mitigation (as much as this is possible within the constraint of the group budget in question). The simplest version of this is a sigmoidal curve, symmetrical around a straight-line pathway with the same budget (or area).

The end date – or functional zero year – for each pathway is the year in which production falls to 5% of the starting value (baseline).

As in the case of coal production pathways in §4.4, the point at which our oil and gas pathways is considered to have reached zero is the first year in which production is less than or equal to 5% of the baseline 2018 value. This is the pathway's 'functional zero year'.

More technical details of how the sigmoidal pathways were constructed can be found in §10.1.8 in Appendix 1. For present purposes it is enough to note that, for a given budget, the functional zero year is sensitive to an exogenous gradient value. As a simplifying assumption, the pathways presented in this part of the report all take the lowest gradient value possible in order to give the latest functional zero year within budget[38].

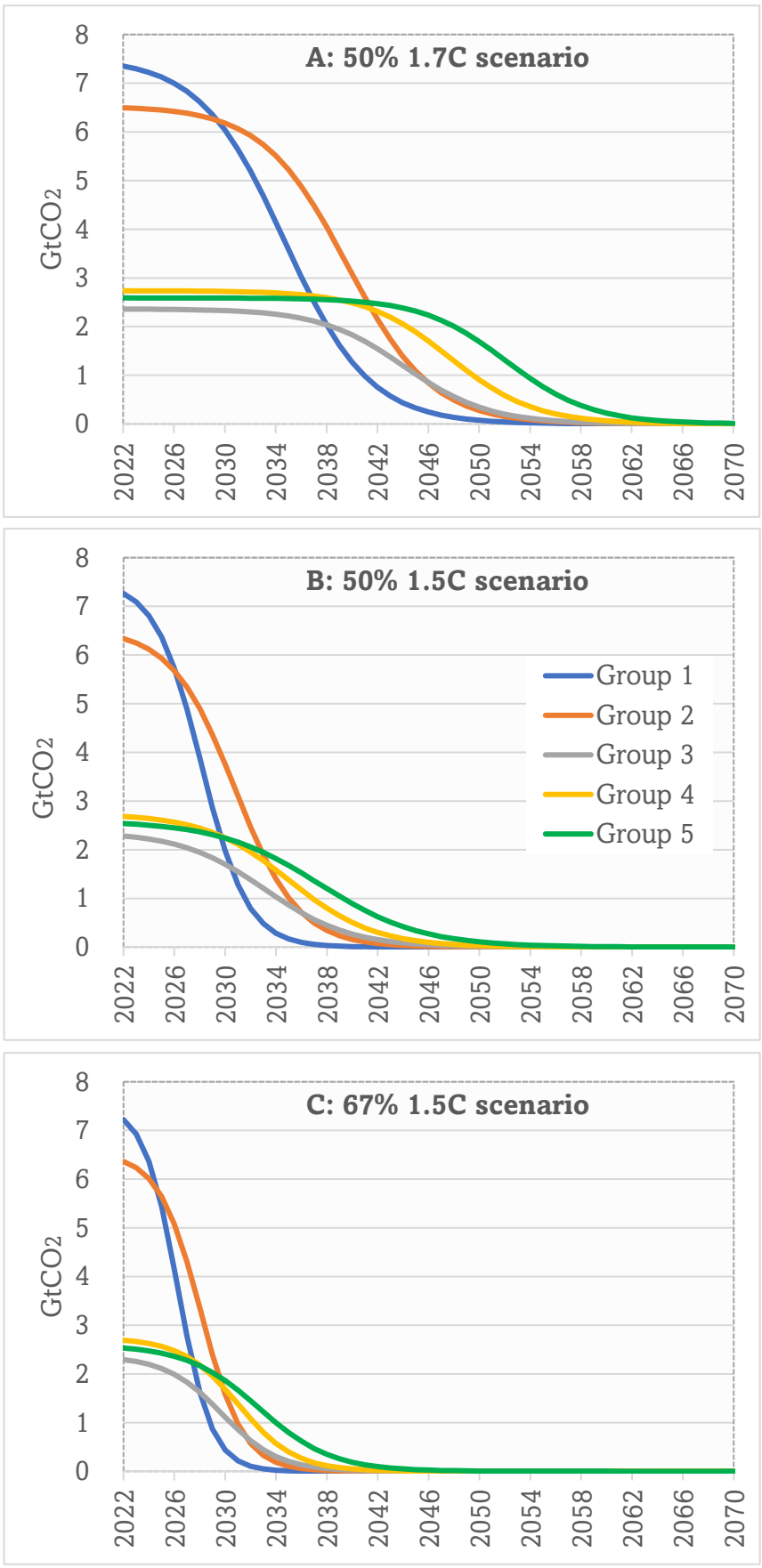

Figure 4: Combined oil & gas phaseout pathways for five groups of countries under three core temperature scenarios.

SECTION FOOTNOTES

[35] Grandfathering is a system of budget allocation whereby a country's or group's historical level of resource use (i.e. emissions space) is used to set its share of future budget entitlement [63]. In this analysis, we use each group's 2018 production emissions to set its de facto grandfathered share of the global oil and gas budgets.

[36] Ireland's non-oil GDP/capita is a conspicuous outlier and was therefore excluded from the mean of Group 1.

[37] That is reduction in 'tonnes of production/year'. The actual percentage reduction, relative to the previous year, actually increases year on year for a straight-line gradient.

[38] The range of possible values for sigmoidal pathway gradients is 0.1 to 1.0. In full, the rubric for setting the gradients was that the lowest value within budget should be selected, down to a lower limit of 0.3. While not in all cases incompatible with certain larger budgets, pathways with a gradient lower than 0.3 have very long tails (hence, in extreme cases, grossly delayed functional zero years), which were deemed to be inconsistent with the ethos of rapid international mitigation effort.

7 Discussion and conclusions

7.1 Overview

This report has focussed specifically on phaseout schedules for oil and gas producing nations. The schedules are aligned with tight and quantified carbon budgets and informed by the equity considerations embedded within the principle of "Common but Differentiated Responsibility and Respective Capabilities" (CBDR-RC).

The three global budgets that have guided the analysis are taken to reflect the commitment enshrined in the 2015 Paris Agreement to hold *"the increase in the global average temperature to well below 2°C … and to pursue efforts to limit the temperature increase to 1.5°C."*. In addition, they also capture the shift in emphasis towards 1.5°C, evident in the IPCC's SR1.5 report [2], the G7 Communique [4] and COP26 [5].

Discussion focusses on our 'central scenario', with a 50:50 chance of not exceeding 1.5°C

The headline budget adopted as the central scenario for this report is for a 50% chance of not exceeding 1.5°C. This central scenario is flanked by a less demanding, 'lower ambition' scenario with a 50% chance of 1.7°C (i.e. "well below 2°C") and a more challenging, 'higher ambition' scenario with a 63% chance of not exceeding 1.5°C.

In 2022, all of these budgets have profound implications for the future of fossil fuel production. However, they embody significant differences in phaseout schedules. Considering the largest of the budgets, 50% of 1.7°C (i.e. equivalent to an 83% chance of not exceeding 2°C), and updated to the start of 2022, this value equates to eighteen years of current fossil fuel production. At the other end of the budget range, the 63% chance of not exceeding 1.5°C, gives just seven years of production, increasing to a decade for a 50:50 chance of 1.5°C.

For a 50% chance of not exceeding 1.5°C, less than 10 years' worth of emissions space remains at current levels of production.

7.2 Findings for coal

Working from these budgets and with a focus on detailing oil and gas phaseouts across the eighty-eight producer nations, it was first necessary to develop a coarse-level schedule for phasing out coal production. This was undertaken in relation to "developed" and "developing country parties" (consistent with the language and designation within the Paris Agreement).

Two key coal-related characteristics evident in compiling the fossil fuel database (production and consumption) that informed this report were:

(i) coal is disproportionately favoured by those nations undergoing rapid industrialisation; and

(ii) there is a close link between national production and consumption of coal.

This second point has direct implications for the proportion of coal that is extracted and subsequently traded on the world market, which is much smaller than for oil and, to a lesser degree, gas.

Collectively, these two characteristics provide a strong steer that there needs to be a clear distinction drawn between the phaseout schedules of coal within "developed" nations and within "developing" nations. However, given the very tight and rapidly dwindling carbon budget associated with this report's emphasis on 1.5°C, even within developing nations the move away from coal needs to be rapid.

Early in the analysis, acknowledging the much higher carbon intensity of coal (i.e. more CO_2 is emitted per unit of energy than from either oil or gas) led to a decision that none of the scenarios should see the coal use, as a proportion of all fossil fuel energy, increase. The implication of this for a 50% or better chance of 1.5°C, led to coal scenarios where production needed to end by 2030 for developed countries and 2040 for developing countries. Any reasonable pathway of coal's use beyond these dates would see it taking up more of the remaining global carbon budget than its current share. Were this to be permitted in a carbon budget-constrained scenario, there would be less emissions space for oil and gas, which would have significant impact on the access to energy for sectors that rely on these fuels – especially transport.

For a 50% chance of not exceeding 1.5°C, coal production needs to be phased out in developed countries by 2030 and in developing countries by 2040.

On the face of it, this conclusion simply reinforces a common understanding that there needs to be an urgent and rapid shift away from coal production. However, quantifying such a shift in relation to a 50% chance of 1.5°C, with a strong emphasis on equity, makes clear just how stark this 'urgency' really is. For developed nations, coal production needs to fall by 50% within five years and be effectively eliminated by 2030. For developing nations, there is some relative leeway. Nevertheless, coal production has to begin an immediate decline, reducing by half within a decade with all extraction ceased by 2040.

7.3 Findings for oil and gas

Having established coal production pathways, with attendant total cumulative emissions, for each of the three global carbon budgets, the remaining non-coal budget was considered in relation to oil and gas production. Here, and as explained in §4.4, oil and gas were brought together as a single energy source, rather than addressed separately.

A central concern in apportioning the oil and gas budget between the eighty-eight producer nations was the issue of equity. Acknowledging that there are several interpretations of such equity within the literature, what quickly

became apparent was just how little emissions space remained within which equity could be considered. Constrained by a breadth of factors, ranging from data availability to the physical constraints of the remaining oil and gas budget, we settled on a metric for 'capacity to make a just transition' that achieved a workable balance, but still with fairness at its core.

Oil and gas producing nations differ greatly in their dependence on income from production. Some of the poorest producers have very little income other than from oil and gas.

Probing the production and economic data for oil and gas revealed that nations' reliance on revenue from the sector differs by an order of magnitude. Although striking in itself, this observation painted only a partial picture. Some nations, despite being small producers, have little economic revenue beyond that from oil and gas production (for example, South Sudan, Equatorial Guinea, Congo-Brazzaville and Gabon).

At the other end of the spectrum, some larger producers have such diverse and vibrant economies that the oil and gas revenue is arguably more of a 'nice to have' (for example, United Kingdom, Canada, Australia and, even the USA[39],). Still others are large producers with oil and gas revenue forming a major proportion of their economy, but with very high non-oil-and-gas income too (for example, Qatar, United Arab Emirates[40] and Norway).

Wealthier producers tend to have much more diversified economies, even when they are major producers of oil and gas.

Bringing all of this together, we chose the non-oil-and-gas facet of national GDP (measured in PPP per capita) as a measure of capacity to rapidly phase out oil and gas production and restructure economies without the associated revenue. Using this measure, it was possible to test different redistributions of the production emissions budgets between groups of nations, endeavouring to find a balance between equity and a judgement of what was deliverable. This process of iteration was undertaken for each of the three headline carbon budget constraints.

The specific reference to 'groups of nations' here is key. As detailed in §7.5, the available data were partial, had different or missing dates and was very often poorly specified. Nevertheless, set against other similarly partial datasets, we considered the non-oil-and-gas proportion of GDP the most appropriate proxy for capacity while taking account of equity. To assuage some of our concerns with the quality of the data, we chose to collate nations into five groups. Within each group, the data was averaged to provide generic group characteristics, which subsequently informed the redistribution of the budget allocations between the groups (see §6.2). This approach inevitably loses some national specificity, but in doing so it lends an element of robustness to otherwise ambiguous and partial data.

Wealthier producers are still wealthy even once their revenue from oil and gas is removed.

What quickly became evident from the completed dataset of non-oil-and-gas GDP per capita (PPP), was how those wealthy nations that are major producers, typically remain wealthy even once the oil and gas revenue is

removed. In contrast, several of the smaller producers have economies so deeply locked into oil and gas production that they have very little financial capacity to reconfigure their economies once the oil and gas inputs are removed.

This assessment of capacity was a key determinant in testing what level of carbon budgets could be redistributed between the different groups (see §6.3 for details of how this was done). However, and as emphasised earlier, the physical limits of the remaining carbon budgets placed a significant constraint on the levels of redistribution possible; this was particularly evident for the two 1.5°C budgets.

For a 50% chance of 1.5°C, the wealthiest producers (Group 1) need to end production of oil and gas by 2034, while the poorest producers (Group 5) have until 2050.

For our central scenario (50% chance of 1.5°C), the final redistribution that balanced equity with delivery sees oil and gas production in the wealthiest (Group 1) nations reduce by 50% in just six years, and cease by 2034. For the poorest nations most dependent on oil and gas revenue (Group 5), the date for a 50% drop in production extends out to 2037, with complete phaseout by 2050

7.4 Implications of the findings

7.4.1 Phaseout ambition must increase

The fossil fuel phaseout schedules that emerge from our analysis are, for all three temperature scenarios, far removed from proposals forthcoming from the governments of virtually all producer nations.

The very few exceptions include the proposed ending of oil and gas production by France (a minor producer, 0.01% of global oil and gas) in 2040 and by the State of California in 2045. However, these undertakings are only compatible with our lowest ambition temperature scenario, and fall far short of what would be necessary for 1.5°C. Denmark's (0.1% of global production) pledge to phaseout in 2050, would be five years too late to be compatible with the lowest ambition scenario. It bears repeating that it is the pathway to the final end date that is of key importance to respecting the overall temperature-related budget. Achievement of the end date does not alone constitute conformity with the budget, and may actually relate to total emissions far in excess of what is permitted.

Our findings suggest that the current proposals by governments of virtually all oil and gas producing nations place the world on course for exceeding 1.5°C.

7.4.2 No room to expand production in any scenario

Of graver concern than pledges of weak end dates, is that most oil and gas producing countries are planning to increase production in the short term. [52]. This is diametrically opposed to the production pathways identified in this report. Peak production needs to be now, followed, with immediate effect, by the rapid phaseout of existing production.

For a 50% or better chance of 1.5°C, our analysis shows that all producer countries must peak their production immediately and begin an uninterrupted decline. Expanding production in wealthier producers would either shift poorer producers (in fact all producers) onto more steeply declining pathways with earlier end dates, or put the temperature commitments beyond reach.

For context, in our central scenario (50% chance of 1.5°C) – even with the relatively weak version of equity applied here[41] – production in poorer nations needs to come down by between one sixth (for Group 5, the very poorest producers) and almost a third (for Group 3, below average capacity) by 2030. This already represents a significant loss of short-term income opportunity for the countries least able to tolerate such losses.

For a 50% or better chance of staying below 1.5°C, production must start to reduce everywhere. There is no room in a 1.5°C budget for any expansion of oil and gas production.

In this light it is clear that, should wealthy producers (Groups 1 and 2, responsible for two thirds of global oil and gas) expand their production, then either the global carbon budget is breeched (causing greater climate impacts), or the already challenging transition for poorer producers is grievously exacerbated (undermining their development).

It is worth noting that any expansion by poorer producers (Groups 3, 4 and 5, responsible for one third of global oil and gas) would also force their 'group-mate nations' onto steeper phaseout pathways with earlier end dates (thus exacerbating economic hardship), or again jeopardise the overall global budget.

Only in the weaker ambition scenario associated with a 50% chance of 1.7°C is there scope for the poorest producers to effectively flatline their production until the early 2040s. But such leeway is possible if and only if the wealthier producers (Groups 1 and 2) eliminate their production during that same twenty-year period.

In summary, should any group or groups of nations opt for expansion of production, rather than following the pathways illustrated in Figure 4, then the corresponding end dates would be forfeit and steeper reduction curves would be required of all. With even a weak interpretation of equity, the achievement of any of the three temperature-probability scenarios in this analysis would be fatally undermined by an increase in oil and gas production.

7.4.3 Need for financial transfers

While differentiated phaseout timelines, such as those developed in this analysis, are an important means to recognise producer nations' differing capacities to conduct a just transition, they do not fully (or evenly mostly)

deliver equity. As noted in §6.3, equity has to be weighed against the need to configure pathways that are 'feasible for all'. In the tighter '50% of 1.5°C' budgets, there was insufficient emission space, and therefore time, for poorer producers (Groups 4 and 5) to phase out their production without severely hampering their socio-economic development needs. This inequitable situation could only be alleviated by releasing additional budget through the almost overnight 'switching off' of production in the wealthier producers (Group 1); a requirement that is infeasible both practically and politically.

There is not enough space left in a 1.5°C global budget to be fully equitable in the treatment of the poorest producers through later phaseout dates alone.

Furthermore, as noted in §7.3, many of poorest producers are the most heavily reliant on income from the oil and gas sector. With low levels of economic diversification such poor nations face a much more difficult transition away from the hydrocarbon 'resource curse' [53]–[55] than do those, typically wealthier, producers with diverse economies.

It will be especially difficult for the poorest, oil-dependent countries to phase out production by the 2040s or 2050, yet this is exactly what is required of them for a 50% or better chance of 1.5°C. Therefore the provision of international financial support will be crucial, in addition to the differentiation of end dates for production developed in this report [56]. Note that the upscaling of climate finance necessary to enable those transitions is separate from and additional to the issue of reparations for loss and damage arising from climate impacts already being suffered and those yet to arise from a warming world.

Financial transfers will be essential to help poorer producers transition from oil and gas production quickly enough to stay below 1.5°C.

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[39] Oil and gas revenue may contribute 8% of the US GDP, but the economy is so diversified, mature and large that relative to the non-oil GDP of virtually all other producer nations the phasing out of oil and gas revenue would still leave a substantial and thriving economy. To put some numbers on this, with the 8% removed, the US has a GDP/capita of over $60k, the second highest globally. Another perspective here, is that with US oil and gas revenue removed, the US still has a GDP/capita that is one third above that of the OECD and the EU (both with oil and gas revenue included) and three-and-a-half times that of the global and Chinese average (again, with including oil and gas revenue).

[40] Whilst the economies of Qatar and UAE remain highly dependent on oil and gas revenue, the past twenty years have also seen some significant diversification of their economies. Both countries now have substantial economic return from manufacturing and heavy industry, as well as thriving financial and tourism sectors. In the case of UAE, there are important differences in the economic make-up of its seven emirates, with, for example, Dubai now much more diversified from oil than Abu Dhabi.

[41] Weak insofar as the attempt to achieve an equitable rebalancing of the budgets was constrained by judgements about feasible rates of real-world energy system transitions.

8 Glossary

AFOLU	agriculture, forestry and other land use
BECCS	bioenergy with carbon capture and storage
capacity	the ability of a producer nation to conduct a just transition away from fossil fuel production
capacity weighting (CW)	a measure of relative capacity developed in this report, based on GDP/capita excluding oil and gas (measured in PPP)
carbon budget	the amount of CO_2 that can be emitted while staying below a given amount of global warming
CBDR-RC	common but differentiated responsibilities and respective capabilities – the principles of equity embedded in the UNFCCC and Paris Agreement
CCS	carbon capture and storage – capturing CO_2 at point of emission and storing it in geological strata
CDR	carbon dioxide removal – extracting carbon dioxide from the atmosphere after it has been emitted by technological or biological means
CH_4	methane, a potent greenhouse gas, significantly from agriculture and fossil fuel production
CO_2	carbon dioxide, the principal greenhouse gas from fossil fuels
DACCS	direct air carbon capture and storage, a form of CDR
Developed countries (DD)	UNFCCC Annex 1 parties plus oil-rich countries with GDP/capita and HDI values above the mean of Annex 1 nations
Developing countries (DG)	UNFCCC non-Annex 1 parties minus oil-rich countries with GDP/capita and HDI values above the mean of Annex 1 nations
GDP	gross domestic product, a broad measure of a country's economic output
$GtCO_2$	gigatonnes of carbon dioxide (billion tonnes)
HDI	Human Development Index, a composite measure of the relative health and prosperity of a country's population
IAM	integrated assessment model
IEA	International Energy Agency
IPCC	Intergovernmental Panel on Climate Change
just transition	a shift away from fossil fuel production accompanied by social and economic interventions to secure workers' livelihoods
ktoe	kilotonnes of oil equivalent, a unit of energy for fossil fuels
LNG	liquefied natural gas
LUCF	land use change and forestry
$MtCO_2$	million tonnes of CO_2
mtoe	million tonnes of oil equivalent, a unit of energy for fossil fuels
N_2O	nitrous oxide, a potent GHG, largely unavoidable from AFOLU
NbS	nature-based solutions, (such as forestation), a biological form of CDR
NETs	negative emissions technologies (such as DACCS), another form of CDR

NO-GDP	non-oil-and-gas GDP, a measure developed in this report of the size of a country's economy without income from oil and gas
PPCA	Powering Past Coal Alliance
PPP	purchasing power parity, an adjustment to GDP to allow international comparisons
UNFCCC	United Nations Federation Convention on Climate Change

9 References

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10 Appendix 1: Key sensitivities

10.1 Limitations and alternatives

Any assessment of pathways to eliminate fossil fuel emissions is subject to multiple assumptions. Our approach throughout this report has been to adopt a well-reasoned, sequential logic starting from peer-reviewed global carbon budgets and progressing via a sequence of observations and arguments (essentially assumptions) about key factors that influence the rate of depletion of these global budgets. Sections 2 to 6 of this report give detailed information about all of these assumptions. For rigour and transparency, we summarise them again here and offer brief commentary on how the outcomes of the analysis might be affected were alternative assumptions to be applied.

10.1.1 Selection of scenario set

Global emissions budgets form the bedrock on which the rest of the pathway analysis stands. Budgets for a 50% chance of 1.7°C, and 50% and 67% chances of 1.5°C reflect temperature and probability outcomes that the authors and client agreed appropriately represented the imperatives of the Paris Agreement to hold "the increase in the global average temperature to *well below* 2°C … and to pursue efforts to limit the temperature increase to 1.5°C." While, arguably, 67% chance goes further than 'pursuing efforts' to 1.5°C, it was considered a valid representation of both increasing high-level rhetoric on 1.5°C, and of the earlier and more serious impacts of 1.5°C that have emerged in the years since Paris.

Should a lower probability of staying at or below 1.5°C (or indeed 1.7°C) be deemed appropriate, then clearly bigger budgets and less strenuous mitigation pathways would ensue. However, such an assumption would categorically be at odds with calls from climate-vulnerable nations in the Global South to increase ambition on 1.5°C (see for example [57]), and with the scientific consensus on the severity of impacts of exceeding 1.5°C.

10.1.2 Application of precaution (ESFs, CDR, LUCF)

The assumptions made in this analysis about uncertainties regarding the effects on the global carbon budget of earth systems feedbacks (ESFs), carbon dioxide removal (CDR) and land use change and forestry (LUCF) are best characterised as conservative. That is to say, the global budgets are not downsized to reflect the potential for around 145 $GtCO_2$ of additional feedbacks for 1.5°C budgets (±97 $GtCO_2$ of ESFs per degree Celsius of warming, see §2.2.1) in a 'worst case scenario'. At the same time, we do not expand the global carbon budgets by applying planetary-scale quantities of NETs, or by assuming that the land use sector will compensate for emissions of CO_2 over and above the carbon budgets.

Should a stronger framing of precaution be preferred, one might factor in the additional feedbacks identified in AR6. This would mean that, to retain a 50% chance of 1.5°C, it would be necessary to follow a pathway slightly below the one offered here for 67% chance of 1.5°C. In other words, removing 145 $GtCO_2$ of additional feedbacks from the 50% chance of 1.5°C budget would leave rather less than in the 67% chance of 1.5°C budget (361 $GtCO_2$, for a 50% chance,

would come down to around 216 $GtCO_2$ – i.e. 45 $GtCO_2$ less than the budget for a 67% chance of 1.5°C).

With regard to CDR, a more bullish (less precautionary) approach might advocate for greater inclusion of CO_2 removal through (amongst others) reforestation, afforestation, BECCS, DACCS and so on. Setting aside the arguments in §3.2 for why, with specific reference to fossil fuel CO_2, this analysis rejects such a move, it is worth remembering that any available CDR should be counted first against unavoidable emissions from agriculture. Only then, and if there are surplus levels of 'removal', should the NETs component of CDR be considered in relation to fossil fuels, for which ready alternatives exist (through a combination of energy supply and demand management).

To recap: in this analysis we assume that any CO_2 released from deforestation and the broader land use sector (including agriculture)[42] will be compensated by sequestration of CO_2 through LUCF over the course of the century. Simultaneously, we optimistically assume that residual emissions of non-CO_2 GHGs from agriculture will be reduced to around 4 to 7 $GtCO_2e$/year by mid-century and hold constant thereafter. In other words, this analysis does not reject CDR, rather it indirectly assumes that any warming from non-CO_2 agricultural emissions will be compensated by some form of CDR.

Should a case be convincingly made for deliverable CDR over and above that assumed here for agriculture, it would have the effect of increasing the probability of a given phaseout pathway being compatible with its respective temperature threshold. For example, if in addition to the CDR necessary to compensate for non-CO_2 warming, there were a further 100 $GtCO_2$ of verifiable and permanent CDR, then this would effectively 'relax' the pathway for a 67% chance of staying below 1.5°C to that of the 50% pathway.

10.1.3 Process emissions

This analysis followed the approach in *Factor of Two* [16], extrapolating the cement industry growth rate in IEA's Cement Technology Roadmap out across the rest of the century. A key assumption was that cement, as an essential material in the construction of zero-carbon energy networks everywhere and other essential infrastructure in developing countries, will continue to be so for several decades to come. However, as noted in §2.2.3, the slowdown in growth rate assumed in the IEA Roadmap is highly optimistic, with no precedent in the post-WW2 era. For this reason we applied a slower rate of decline in cement process emissions in our 1.7°C scenario, (resulting in 100 $GtCO_2$ overhead in the 1.7°C scenario, as opposed to a 60 $GtCO_2$ overhead in the more constrained 1.5°C scenarios). This more precautionary 100 $GtCO_2$ overhead for cement is incompatible with the 50% and 67% 1.5°C budgets. But the more optimistic 60 $GtCO_2$ overhead could, of course, be applied to the 1.7°C scenario. This would mean an additional 40 $GtCO_2$ for our fossil fuel scenarios, equating to one more year of oil and gas production (at current levels). However, this would be at the expense of a major reduction in cement availability to developing countries.

10.1.4 CCS on fossil fuels

In §3.3 we discuss the rationale for not assuming any relaxation of the production emissions budgets on the basis of carbon capture and storage on fossil fuel use. In view of the slow rate of delivery of CCS projects – which, importantly, is *much* slower than touted by the fossil fuel industry – it is our judgement that CCS can contribute virtually nothing towards achieving 1.5°C-compatible pathways. Such pathways require complete decarbonisation of the energy system in developed countries by the early 2030s (see Table 6 and panels B and C of Figure 4).

Without invoking rates of CCS development and roll-out that are beyond anything discussed in the literature, then, only scenarios incompatible with 1.5°C have the flexibility to accept any contribution from CCS. That being so, increased deployment of CCS could allow marginally more fossil fuel use (and by extension production) within 1.7°C-and-warmer scenarios. However, the ongoing track-record of under-delivery in CCS does not support the positing of large-scale deployment even within the 2030s to 2040s phaseout timeframe of 1.7°C scenarios. Thus, the extra budgetary flexibility afforded is likely to be minor (a few gigatonnes of CO_2 at best) over the timeframe of concern for 1.7°C. The difference to phaseout pathways and end dates for oil and gas production from this additional CCS would be similarly trivial, measured in extra months of production (at baseline levels) rather than years.

10.1.5 Coal phaseout parameters

The phaseout pathways for coal production are sensitive to several key assumptions, as follows.

(i) The end year for production for Developed and Developing producer nations;
(ii) The peak year for production in both Developed and Developing nations;
(iii) The phaseout trajectory or pathway shape for Developed and Developing nations (which determines their relative share of the total coal budget);
(iv) The percentage share of the overall global carbon budget that was allowed to be consumed by coal production.

See Table 6 for the key input parameter values, and Table 2 for the outcome of those values with respect to the relative share of the global budget given to coal, oil and gas.

The underpinning analysis for coal was iterative insofar as the interplay of these parameters was configured to represent the fastest feasible phaseout of coal in both Developed and Developing producers. Coal pathway development was subject to deliberative judgement by the authors, client and civil society consultees regarding real-world limitations on rates of transition in both Developed and Developing nations' coal production.

The resulting coal pathways for 1.5°C scenarios are immensely challenging; we assume that Developed countries cease coal production by 2030-1 and Developing countries end by 2037-40. Since our coal assumptions were taken to be maximally demanding, alternative assumptions regarding parameters (i)–(iv) above would likely have the effect of relaxing the rate of phaseout of coal production. Note that our 1.7°C scenario is the only one in which coal occupies less of the total global carbon budget than its current share (in the baseline year). In both 1.5°C

scenarios coal is effectively held at its current share of cumulative emissions. This is because faster phaseout was considered implausible without major constraints on access to energy in Developing countries (the major users and producers of coal) on the one hand, or ignoring real world inertia in energy system transformation by pushing Developed countries to end coal in less than eight years on the other. To argue for a faster trajectories or earlier end dates than reflected in the 1.5°C pathways here, one would have to give an account of how these access-to-energy and inertia-based constraints could be overcome. Conversely, to assign slower trajectories or later end dates for coal production (or later peak production in Developing countries) than in the 1.5°C scenarios, one would have to justify giving more budget space to coal than its baseline share (41%), with all the energy efficiency penalties that brings.

In the case of the 1.7°C scenario, there is a little more flexibility. Should the immensely challenging 1.5°C coal phaseout pathways be applied to the 1.7°C budget, it would increase space for oil and gas and postpone their production end dates by a few years for each country group. However, this would be at the cost of substantially limiting access to energy (especially in the short-term) in Developing countries, a constraint out of kilter with the overall pace of reductions in the 1.7°C scenario.

10.1.6 Capacity parameters

The estimation of producer nations' relative capacities to make a just transition away from oil and gas production is based on several key assumptions.

First, the list of producers includes only countries with currently operational oil and/or gas production facilities. As such, potentially soon-to-be producers such as Namibia, Mozambique et al are not considered within the phaseout schedules in this report. This is a limitation of available data and project time, not to mention that the precarious political and security situations of some aspiring producers makes estimation of likely future output too speculative for inclusion at present.

Second, to differentiate the eighty-eight currently operational producers (with at least 0.5 mtoe output of oil and/or gas per year), this report developed a novel metric of 'non-oil-and-gas GDP', adjusted for PPP/capita (see §5.3.1). Compiling this dataset was subject to several limitations, not least the fact that there is no universal standard for reporting the contribution of oil and gas production (or indeed any industry sector) to GDP. Hence, data were gathered from a variety of internet sources (see Table 8). These sources were inevitably heterogeneous with respect to system boundaries (estimates for some countries included both direct and indirect revenue from the sector, others direct only, still others potentially referred only to economic rents); time period (often indeterminate); and aggregation with other extractive industries (such as coal, mineral ores etc).

Other proxies for capacity to transition were explored in the early stages of our analysis, including economic rents and the share of government budget from oil and gas revenues. These were rejected as being too narrow to capture the full extent of economic dependency on

hydrocarbon production, not to mention offering scarcely more complete datasets than non-oil GDP. Nevertheless, adopting an alternative proxy for capacity would doubtless have the effect of moving some producers up or down the rankings in Figure 3. However, while a different proxy would change the composition (or membership) of the groups, it would not affect the allocation of emissions budget between groups.

10.1.7 Country grouping parameters

The ordering of producers into groups sharing broadly similar levels of capacity to transition away from oil and gas production is subject to the following key assumptions.

First, 2019 was selected as the reference year for GDP/capita (PPP), being the most recent year for which an almost complete dataset exists. National GDPs can vary not insignificantly from year to year, especially for oil and gas producing countries subject to the forces of global supply and demand. As such, choosing a different reference year for GDP/capita would affect the relative position of producers in the rankings shown in Figure 3. Similarly, choosing a different PPP adjustment to GDP/capita (such as 'constant 2017 international dollars' rather than 'current international dollars') would also affect some countries' ordinal position in the overall ranking.

Second, the break points for country groupings were based on mathematical averages (mean and median) of the non-oil GDP dataset, plus the development threshold at $7,500. Clearly, different groupings would emerge if alternative boundaries were set. The level of the development threshold is the most obvious candidate for further exploration. Indeed some reviewers (of an earlier draft of this report) suggested an additional lower break point might be applied to subdivide the large group of lowest capacity countries (Group 5), and render even more subtly differentiated phaseout schedules for the poorest and 'very poorest' producers.

Further to this, consideration was given to breaking Groups 1 and 5 into two more subgroups each, but was rejected for two reasons. First, project constraints limited the number of iterations possible in the analysis that builds on these groupings. Second, the inherent imprecision in the underlying data for the oil and gas share of GDP (see §10.1.6 above) means that further subdivision would risk placing undue emphasis on the exact values of non-oil GDP rather than on relative values. With access to more precise data on the contribution of oil and gas to the GDP of all eighty-eight producer nations, budgets and pathways could be derived for each country separately. However, researching and compiling such a dataset from scratch would require substantial further research, considerably beyond the scope of the present work.

As with the sensitivities around capacity parameters, fine tuning the grouping parameters is relevant only to the precise outcomes for individual countries (insofar as it assigns them to a particular group); it does not affect the differentiation between pathways for those groups.

10.1.8 Differential phaseout parameters

The final step of our analysis disaggregated the budgets for oil and gas to five groups of producers according to their grandfathered starting positions, before attempting to rebalance these shares in accordance with the equity principles of CBDR-RC. The key parameters in this process are as follows.

(i) Use of each group's share of aggregate absolute deviation as the basis for the capacity weightings. As always, alternative proxies or metrics would yield slightly different country rankings and groupings. For example, the proportion of 'excess' national income above the global poverty threshold could be used to determine weightings. In principle this would accord a higher budgetary reallocation benefit to the poorest countries (which have negative 'excess' in relation to the poverty line). Such a re-weighting would work well with more finely delineated groups, or indeed country-by-country, based on better data on non-oil GDP. However, given the acknowledged imprecision of the non-oil GDP data and the need for a manageable number of discrete groups, it was deemed more appropriate to take group means and shares of aggregate absolute deviation as broadly capturing the relative capacity characteristics of each group.

(ii) The extent of budgetary reallocation between groups was capped at 20% of the combined grandfathered budgets of Groups 1 and 2. This was held constant across all three scenarios. The outcome of this, as noted in §6.3, is that the differentiation between phaseout pathways becomes less equitable as the budgets get tighter for higher probabilities of 1.5°C. It goes almost without saying that altering this reallocated percentage would have noticeable outcomes for the end dates for all five groups, with a greater percentage yielding earlier end dates for Groups 1 and 2 and later end dates for Groups 3, 4 and 5.

It is worth noting that the 20% value emerged from an iterative and deliberative process of calibrated pathway adjustments, with 'feasibility for all' groups being the final arbiter of selection. For a 50% or better chance of 1.5°C, a 20% reallocation renders end dates for Groups 1 and 2 in the 2030s, with 74% and 43% reduction by 2030 respectively. Applying a greater percentage reallocation would bring the Group 1 end date to within a handful of years from now. Applying a smaller percentage reallocation would place the pathways further from a reasonable interpretation of CBDR-RC, and require even more emphasis on financial transfers and reparations from wealthy to poor producers.

(iii) Phaseout end dates on the logit-based, sigmoidal pathways shown in Figure 4 are sensitive to an exogenous gradient value[43]. Put simply, the lower (or shallower) the gradient, the later the end date for a given budget. A simplifying assumption was made across the board for all pathways[44] to set the gradient as low as possible down to a lower limit of 0.3. Higher gradients would render more 'front-loaded' pathways with earlier end dates. Since such pathways consume a greater share of the emissions space in the early years, they rely heavily on steeper rates of reduction soon after. Therefore more evenly-paced phaseout schedules were preferred wherever possible to increase likelihood of compliance. Gradients lower than 0.3 render pathways with very long tails of production (especially for Groups 4 and 5), with small quantities of production

extending into the later decades of the century. In such pathways, these small but lingering quantities of production were considered antithetical to the wider interests of global decarbonisation.

(iv) End dates are sensitive to the value taken to mark 'functional zero'; in this report we used 5% of baseline production. Clearly, setting the bar of elimination higher by selecting a lower remaining percentage of baseline production would suggest later end dates for the same pathway. However, given the diminishing returns from dwindling amounts of oil and gas, 5% reflects the likelihood of a final 'coup-de-grâce' closure of the last few facilities in a producer country. Setting the bar of elimination lower with a higher remaining percentage would suggest earlier end dates for the same pathways.

SECTION FOOTNOTES

[42] Sometimes referred to by the acronym AFOLU, for agriculture, forestry and other land use.

[43] Logit-curve based pathways were constrained to cumulative group budgets using:

y =L/(-K*(1+EXP(A1-x0)))

where L = the curve's maximum y-value (production emissions in the baseline year)
x0 = the x-value of the sigmoid midpoint (obtained from number of years of current production in budget)
K = the steepness or gradient of the curve (constant, set as low as possible down to 0.3)

[44] The sole exception being the gradient of Group 5's pathway in the central scenario, (50% chance of 1.5°C), which was set at 0.25 (a single decrement lower than 0.3) to better reflect the strong preference amongst civil society reviewers for a later end date (for the same cumulative budget) for this poorest group of producers.

11 Appendix 2: Key data

Table 7: Key data on eighty-eight producer nations.

COLUMN 1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*
Producer country	**Deve-loped or Deve-loping**	**Total oil & gas prod'n mtoe (2018)**	**% of global O&G prod'n (2018)**	**Popul-ation, millions (2017)**	**GDP/cap 2019, PPP (current int.$)**	**Oil & gas % of GDP**	**Non-oil GDP/cap. 2019 (PPP, current $)**	**Producer Group in this report**
Ireland	DD	3	0.03%	4.8	91,812	ND	90,894	1
United States	DD	1404	17.87%	325.1	65,254	8%	60,098	1
Denmark	DD	10	0.12%	5.7	60,379	2%	59,139	1
Netherlands	DD	29	0.37%	17.0	59,517	1%	58,922	1
Austria	DD	2	0.02%	8.8	58,685	1%	58,098	1
Qatar	DD	219	2.79%	2.7	95,108	40%	57,065	1
Norway	DD	193	2.46%	5.3	65,905	14%	56,678	1
Germany	DD	8	0.10%	82.7	56,226	ND	55,664	1
Australia	DD	115	1.46%	24.6	52,712	3%	51,131	1
France	DD	1	0.01%	64.8	49,696	ND	49,199	1
United Kingdom	DD	88	1.12%	66.7	48,603	1%	48,020	1
United Arab Emirates	DD	232	2.95%	9.5	63,590	27%	46,618	1
Canada	DD	422	5.37%	36.7	51,481	10%	46,385	1
Bahrain	DD	22	0.29%	1.5	51,948	11%	46,234	1
South Korea	DD	1	0.01%	51.1	44,573	ND	44,127	1
Italy	DD	10	0.12%	60.7	44,218	ND	43,775	1
Japan	DD	3	0.03%	127.5	43,710	ND	43,273	1
New Zealand	DD	5	0.06%	4.7	43,689	1%	43,125	1
Israel	DD	8	0.10%	8.2	41,786	ND	41,368	1
Estonia	DD	5	0.06%	1.3	38,480	4%	36,941	2
Poland	DD	5	0.06%	38.0	34,624	ND	34,278	2
Hungary	DD	3	0.03%	9.7	34,327	ND	33,984	2
Romania	DD	12	0.15%	19.7	31,244	ND	30,931	2
Croatia	DD	2	0.02%	4.2	29,925	ND	29,626	2
Turkey	DD	3	0.04%	81.1	29,724	ND	29,426	2
Kuwait	DD	165	2.09%	4.1	46,018	40%	27,611	2
Chile	DG	1	0.02%	18.5	24,969	ND	24,719	2
Saudi Arabia	DD	665	8.47%	33.1	49,216	50%	24,608	2

Producer country	Deve-loped or Deve-loping	Total oil & gas prod'n mtoe (2018)	% of global O&G prod'n (2018)	Popul-ation, millions (2017)	GDP/cap 2019, PPP (current int.$)	Oil & gas % of GDP	Non-oil GDP/cap. 2019 (PPP, current $)	Producer Group in this report
Brunei	DD	16	0.21%	0.4	61,032	60%	24,413	2
Kazakhstan	DG	128	1.63%	18.1	27,292	13%	23,662	2
Malaysia	DG	93	1.19%	31.1	29,043	20%	23,234	2
Russia	DD	1165	14.83%	145.5	28,450	19.2%	22,988	2
Argentina	DG	65	0.83%	43.9	22,997	4%	22,123	2
Mexico	DG	131	1.67%	124.8	20,796	4%	20,068	3
Belarus	DD	2	0.02%	9.5	19,984	ND	19,785	3
Oman	DD	82	1.04%	4.7	30,654	36%	19,619	3
Serbia	DG	1	0.02%	8.8	19,027	ND	18,837	3
Thailand	DG	43	0.54%	69.2	19,234	3%	18,657	3
Suriname	DG	1	0.01%	0.6	16,768	ND	16,600	3
China (inc. HK)	DG	325	4.13%	1421.0	16,659	3%	16,160	3
Trinidad & Tobago	DG	34	0.44%	1.4	26,920	40%	16,152	3
Colombia	DG	56	0.71%	48.9	15,345	5%	14,577	3
Brazil	DG	160	2.04%	207.8	15,454	10%	13,847	3
Albania	DG	1	0.01%	2.9	14,534	6%	13,648	3
Peru	DG	18	0.22%	31.4	13,328	3%	12,995	4
Cuba	DG	4	0.05%	11.3	13,028 †	ND	12,898	4
South Africa	DG	1	0.01%	57.0	12,962	ND	12,832	4
Ukraine	DG	19	0.24%	44.5	13,442	5%	12,752	4
Mongolia	DG	1	0.01%	3.1	12,558	ND	12,433	4
Indonesia	DG	102	1.30%	264.7	12,483	12%	10,985	4
Tunisia	DG	4	0.05%	11.4	11,075	ND	10,964	4
Turkmenistan	DG	79	1.01%	5.8	16,438	35%	10,685	4
Vietnam	DG	21	0.27%	94.6	10,535	ND	10,430	4
Iran	DG	401	5.11%	80.7	12,858	23%	9,901	4
Egypt	DG	83	1.06%	96.4	12,445	24%	9,458	4
Ecuador	DG	28	0.35%	16.8	11,924	21%	9,420	4
Philippines	DG	4	0.05%	105.2	9,356	ND	9,263	4
Azerbaijan	DG	55	0.70%	9.8	15,076	44%	8,443	4
Guatemala	DG	1	0.01%	16.9	8,487	ND	8,402	4

Producer country	Deve-loped or Deve-loping	Total oil & gas prod'n mtoe (2018)	% of global O&G prod'n (2018)	Popul-ation, millions (2017)	GDP/cap 2019, PPP (current int.$)	Oil & gas % of GDP	Non-oil GDP/cap. 2019 (PPP, current $)	Producer Group in this report
Bolivia	DG	19	0.24%	11.2	9,064	8%	8,339	4
Algeria	DG	155	1.98%	41.4	11,895	30%	8,326	4
Gabon	DG	10	0.13%	2.1	16,272	50%	8,136	4
Equatorial Guinea	DG	14	0.18%	1.3	19,286	60%	7,715	4
India	DG	67	0.85%	1338.7	6,992	2%	6,887	5
Uzbekistan	DG	53	0.68%	32.0	7,382	16%	6,201	5
Libya	DG	70	0.89%	6.6	14,599	60%	5,840	5
Venezuela	DG	110	1.40%	29.4	7,344	25%	5,508	5
Ghana	DG	10	0.13%	29.1	5,688	4%	5,472	5
Bangladesh	DG	23	0.30%	159.7	5,330	1%	5,298	5
Ivory Coast	DG	3	0.04%	26.4	5,318	ND	5,264	5
Pakistan	DG	23	0.30%	207.9	5,204	ND	5,152	5
Nigeria	DG	136	1.73%	190.9	5,353	10%	4,817	5
Myanmar	DG	16	0.20%	53.4	5,054	5%	4,817	5
Iraq	DG	241	3.07%	37.6	11,379	65%	3,983	5
Sudan	DG	4	0.06%	40.8	4,310	8%	3,965	5
Angola	DG	78	0.99%	29.8	7,346	50%	3,673	5
Cameroon	DG	5	0.06%	24.6	3,801	4%	3,664	5
Papua New Guinea (*)	DG	11	0.14%	8.4	4,022	18%	3,316	5
Syria	DG	4	0.05%	17.1	2,900 ‡	ND	2,871	5
Tanzania	DG	1	0.01%	54.7	2,841	ND	2,812	5
Timor-Leste (*)	DG	6	0.08%	1.2	3,703	36%	2,370	5
Congo	DG	18	0.23%	5.1	4,600	65%	1,610	5
Yemen	DG	2	0.02%	27.8	2,057	24%	1,561	5
Chad (*)	DG	8	0.10%	15.0	1,654	27%	1,208	5
Mozambique	DG	4	0.05%	28.6	1,302	8%	1,198	5
Niger	DG	1	0.01%	21.6	1,276	7%	1,187	5
D.R. Congo	DG	1	0.01%	81.4	1,130	ND	1,118	5
South Sudan	DG	7	0.08%	10.9	862	60%	345	5

DD = Developed; DG = Developing; ND = no data available, 1% default value assumed.

Data sources for Table 7 were as follows:

- Column 2 classification follows that established in *Factor of Two* [16]. In this report, DD is equivalent to *Factor of Two*'s DD2, i.e. Annex-1 nations plus those non-Annex 1 oil-rich states with GDP/capita and HDI values above the mean of developed nations. DG is equivalent to *Factor of Two*'s DG2.
- Column 3 energy data extracted from International Energy Agency, World Summary Energy Balances [45], except those marked (*) from U.S. Environmental Information Agency.
- Column 5 population data from OurWorldinData.org [58].
- Column 6 GDP/capita (PPP) from IMF World Economic Outlook [59]. † Cuba value is for 2016. ‡ Syria value is for 2015.
- Column 7 contribution of oil and gas to national GDP: drawn from multiple online sources, as shown in Table 8 below.

Table 8: sources for contribution of oil and gas to national GDP

Ireland	No data
United States	https://www.naturalgasintel.com/natural-gas-oil-found-to-support-sizeable-chunk-of-u-s-gdp-including-pennsylvania/
Denmark	https://ens.dk/en/our-responsibilities/oil-gas/economy-oil-and-gas
Netherlands	https://www.cbs.nl/en-gb/news/2019/22/natural-gas-revenues-almost-417-billion-euros
Austria	No data
Qatar	https://www.nationsencyclopedia.com/economies/Asia-and-the-Pacific/Qatar-OVERVIEW-OF-ECONOMY.html
Norway	https://oilprice.com/Latest-Energy-News/World-News/Oil-Gas-Share-Of-Russias-GDP-Dropped-To-15-In-2020.html
Germany	No data
Australia	https://www.upstreamonline.com/finance/oil-and-gas-industry-270-billion-boost-to-australias-economy/2-1-1025044
France	No data
United	https://www.ofgem.gov.uk/sites/default/files/docs/2020/02/oguk_evidence_economic_report_2019.pdf
United Arab	https://www.statista.com/statistics/1105966/uae-oil-and-gas-sector-gdp/
Canada	https://oilprice.com/Latest-Energy-News/World-News/Oil-Gas-Share-Of-Russias-GDP-Dropped-To-15-In-2020.html
Bahrain	https://globaledge.msu.edu/countries/bahrain/economy
South Korea	No data
Italy	No data
Japan	No data
New Zealand	https://www.stuff.co.nz/business/110700136/new-report-estimates-oil-and-gas-ban-will-cost-taranaki-30bn
Israel	No data
Estonia	https://icds.ee/wp-content/uploads/2015/Jordan_Kearns_-_Trends_in_Estonian_Oil_Shale_Utilization_Oct_2015.pdf
Poland	No data
Hungary	No data
Romania	No data
Croatia	No data
Turkey	No data

Kuwait	https://www.opec.org/opec_web/en/about_us/165.htm
Chile	No data
Saudi Arabia	https://oilprice.com/Latest-Energy-News/World-News/Oil-Gas-Share-Of-Russias-GDP-Dropped-To-15-In-2020.html
Brunei	https://globaledge.msu.edu/countries/brunei/economy
Kazakhstan	https://oilprice.com/Latest-Energy-News/World-News/Oil-Gas-Share-Of-Russias-GDP-Dropped-To-15-In-2020.html
Malaysia	https://www.internationalinvestor.com/malaysia/sectors/oil-gas/summary/
Russia	https://oilprice.com/Latest-Energy-News/World-News/Oil-Gas-Share-Of-Russias-GDP-Dropped-To-15-In-2020.html
Argentina	https://eiti.org/argentina
Mexico	https://eiti.org/mexico
Belarus	No data
Oman	https://www.brookings.edu/blog/order-from-chaos/2021/01/13/one-year-into-his-reign-omans-sultan-must-renegotiate-the-social-contract-and-prioritize-diversification/
Serbia	No data
Thailand	Various sources pointing to less than 3%
Suriname	No data
China (inc.	https://data.stats.gov.cn/english/easyquery.htm?cn=C01
Trinidad and	https://www.cia.gov/the-world-factbook/countries/trinidad-and-tobago/
Colombia	https://eiti.org/es/implementing_country/17
Brazil	https://www.iioa.org/conferences/16th/files/Papers/Guilhoto Oil Business BR Guilhoto et al.pdf
Albania	https://eiti.org/albania
Peru	https://eiti.org/files/documents/vii_informe_nacional_eiti_peru_2017-2018.pdf
Cuba	No data
South Africa	No data
Ukraine	https://eiti.org/fr/implementing_country/26
Mongolia	No data
Indonesia	https://www.thejakartapost.com/news/2020/03/02/analysis-unlocking-indonesia-s-500b-oil-and-gas-revenue-opportunity.html
Tunisia	No data
Turkmenistan	https://www.trade.gov/country-commercial-guides/turkmenistan-market-overview
Vietnam	No data, other than rapidly declining.
Iran	https://tradingeconomics.com/iran/gdp
Egypt	https://www.trade.gov/country-commercial-guides/egypt-oil-and-gas-equipment
Ecuador	https://www.icontainers.com/us/2020/03/23/ecuador-main-imports-and-exports/
Philippines	Various sources pointing to steep decline with natural gas reserves exhausted by 2027
Azerbaijan	https://www.privacyshield.gov/article?id=Azerbaijan-Market-Overview
Guatemala	No data
Bolivia	https://www.eia.gov/international/analysis/country/BOL
Algeria	https://theodora.com/wfbcurrent/algeria/algeria_economy.html
Gabon	https://www.mordorintelligence.com/industry-reports/gabon-oil-and-gas-market
Equatorial	https://www.eia.gov/international/analysis/country/GNQ
India	https://statisticstimes.com/economy/country/india-gdp-sectorwise.php
Uzbekistan	https://www.export.gov/apex/article2?id=Uzbekistan-Oil-and-Gas-Industry
Libya	https://www.opec.org/opec_web/en/about_us/166.htm
Venezuela	https://www.investopedia.com/ask/answers/032515/how-does-price-oil-affect-venezuelas-economy.asp
Ghana	https://eiti.org/ghana
Bangladesh	http://203.112.218.65:8008/WebTestApplication/userfiles/Image/GDP/GDP_2015-16_p.pdf
Ivory Coast	Various sources pointing to small but growing fraction.

Pakistan	No data
Nigeria	https://www.statista.com/statistics/1165865/contribution-of-oil-sector-to-gdp-in-nigeria/
Myanmar	https://www.statista.com/statistics/1062945/myanmar-gdp-contribution-energy-sector/
Iraq	http://documents.worldbank.org/curated/en/771451524124058858/pdf/125406-WP-PUBLIC-P163016-Iraq-Economic-Monitor-text-Spring-2018-4-18-18web.pdf
Sudan	https://www.researchgate.net/publication/259484744_Oil_and_Agriculture_in_the_Post-Separation_Sudan
Angola	https://theodora.com/wfbcurrent/angola/angola_economy.html
Cameroon	https://eiti.org/es/implementing_country/20
Papua New	https://eiti.org/ru/implementing_country/46
Syria	No data
Tanzania	No data
Timor-Leste	https://eiti.org/timorleste
Congo	https://globaledge.msu.edu/countries/republic-of-congo/economy
Yemen	https://reliefweb.int/sites/reliefweb.int/files/resources/yseu14_english_final_1.pdf
Chad (*)	https://globaledge.msu.edu/countries/chad/memo
Mozambique	https://eiti.org/files/documents/itie_mocambique_9o_relatorio_i2a_consultoria_versao_inglesa_002.pdf
Niger	https://www.savannah-energy.com/operations/niger/country-overview/
D.R. Congo	https://eiti.org/democratic-republic-of-congo
South Sudan	https://www.oecd-ilibrary.org/south-sudan_5jfvt664hzmp.pdf?itemId=%2Fcontent%2Fcomponent%2Faeo-2017-58-en&mimeType=pdf

From: noreply@nt.gov.au
To: OriginPetroleum DEPWS
Subject: Origin Energy B2 Pty Ltd EMP comment received - Reference # - 1127483
Date: Monday, 15 August 2022 10:40:18 AM
Attachments: Please-reject-Origins-EMP-for-new-fracking-drills-submission-by-Simon-Validzic.pdf

Contact details

Given name:	Simon
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Stakeholder type:	Community

Feedback

Category type:	Social and cultural, Flora and fauna, Water, Waste Management, Climate change, Human health, Chemicals, Regulation and compliance
If other, please specify::	
Comments:	Please see attachment for formatted versio of my submission.
Attachment:	Please-reject-Origins-EMP-for-new-fracking-drills-submission-by-Simon-Validzic.pdf, type application/pdf, 294.6 KB
Privacy:	

Subject: Please reject Origin's Environmental Management Plan for new fracking drills

Department of Environment, Parks and Water Security
PETROLEUM OPERATIONS UNIT
PO Box 3675
Darwin, NT, 0801
AUSTRALIA

To whom it may concern:

I am writing to ask that you reject Origin's Environmental Management Plan (EMP) for twelve new fracking drills in the Northern Territory, on the Amungee Mungee pastoral station 50 km east of Daly Waters.

These new wells pose massive risks to water, indigenous peoples' cultural heritage, natural ecosystems, native plant and animal species and the climate. In addition to that, they would be setting a horrifying precedent for other fracking corporations, such as Empire Energy and Tamboran, to do exactly the same.

Traditional Owners have been staunchly defending their country against these wells for years.

Although Traditional Owners come from many Nations, they have come together to put an end to the ongoing threat of fracking on their countries, which will denigrate and desecrate their lands. Their connections to country have been established and proven time and time again by the white man's law. Traditional Owners hold Native Title and Land Rights - a system that is meant to protect and enforce their rights. These have been denied to Traditional Owners.

For years, gas and oil corporations have told lies to Traditional Owners - that there would be no damage to their country or poison in their waters.

These gas corporations lack any respect for Traditional Owners. They have failed to follow proper process in consultation with them, failed to acquire consent, failed to provide transparency in their dealings with Traditional Owners, and they have systematically excluded their voices from the decision-making process for activities on their country.

Traditional Owners do not have the same resources as these corporations and the system is already set up against Traditional Owners.

I stand with Traditional Owners in protecting their land and Country.

A team of activists drove along the Carpentaria Highway, straight through the land Origin wants to destroy with fracking gas fields. Right on the side of the road in plain sight, they saw some of Origin's fracking infrastructure already leaving scars all over Country. Traditional Owners are seeing it too.

"It's hard to put into words what we are seeing happen to our country now. Fracking corporations shouldn't have access to our water, it's too risky. We've been putting in hard work for years at every turn. No means no, we don't want fracking on our land." - Nicholas Fitzpatrick, Yanyuwa and Garrwa man from Borroloola

Twelve new fracking wells would be bad enough but, when one looks deeper into the EMP, it gets worse:

1. **Origin wants to sell this gas without the right permissions and licenses,** particularly without a complete scientific baseline assessment of the region (SREBA).

2. **They want to fast track disastrous gas production without the right license.** "Exploratory" means they are not fracking for profit, but testing to see how much gas they might be able to pump out of the ground using disastrous fracking processes. Once they confirm there is gas there *(and have all their government approvals)*, that is when they start the approval process for "production licenses", where they can then sell the gas. However, they are planning to sell the gas *from this proposal* - even though they do not have a production license to do so. And once Origin moves from exploration phase to production phase, the scale of the damage is many times greater.

3. **They have not accounted for or addressed the full climate impacts.** Origin are claiming that by selling gas, they will reduce emissions. This is not true – in fact, under this plan, Origin would keep the wells open for over five times longer than they actually need for testing, creating a massive carbon dioxide footprint of over 2 million tonnes of emissions. *Most of these emissions would be 'scope 3' rather than 'scope 1', meaning that Origin can make them someone else's problem. The scope 1 emissions alone are 535,651 tonnes, equivalent to 1.5 times the annual emissions of the town of Alice Springs.*

4. **They want huge amounts of precious water.** Origin will need 430 million litres of water to drill and frack the twelve wells in their proposal. They want to take that water from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools full of water. If they poison this water with their fracking remote Aboriginal communities that rely on this water will be left without. They will also produce 90 million litres of wastewater which they are planning to truck interstate. They have no plans to manage wastewater that would contaminate the water supplies that First Nations communities rely on.

5. **They have not implemented all the recommendations from the crucial Pepper Inquiry.** Back in 2018, Traditional Owners gave evidence in the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, known as the Pepper Inquiry. It resulted in 135 recommendations to mitigate the environmental, social, cultural and economic risks associated with fracking. The Northern Territory's then moratorium on fracking was lifted on the condition that all 135 recommendations would be implemented.

Australia has the worst record in the world when it comes to species extinctions and is as bad as Brazil when it comes to the destruction of forests. Australia also has a high consumption of fossil fuels per person.

Gas is not a sustainable source of energy because it is also a fossil fuel, and reserves may be large but they are finite. I take this opportunity to state that not all battery technology *(that is required to store electricity that is obtained using solar and wind energy)* is socially or ecologically responsible because it involves lithium from South America. I hope that research in Croatia that uses sodium chloride to store energy brings results and/or that the mining of lithium reserves in neighbouring Serbia is approved.

I lived in Victoria, Australia from 1970 to 1992. Since I did not wish to be part of a country in which the large-scale destruction of natural habitats, logging of forests and extermination of native animals continue to take place and which is the result of genocide against indigenous peoples, I returned to my country of origin and encourage others to do the same. For the same reasons, I try to avoid and campaign against European imports of products that are made from raw materials that were grown or mined in North and South America, Australia, Southeast Asia and Sub-Saharan Africa. I campaign against projects in Croatia that would involve the import of coal and gas such as the expansion of a coal-fired power plant and an LNG terminal.

Please take consider the environment, native plant and animal species, indigenous peoples and the local community and reject this Environmental Management Plan for new fracking drills.

Yours sincerely,

Simon Validzic
Froudeova 1
10020 Zagreb-Novi Zagreb
Croatia
e-mail: sime.validzic@gmail.com
Facebook: https://www.facebook.com/sime.validzic
Mobile telephone number: +385 91 5182229

From: noreply@nt.gov.au
To: OriginPetroleum DEPWS
Subject: Origin Energy B2 Pty Ltd EMP comment received - Reference # - 1127565
Date: Monday, 15 August 2022 1:07:52 PM

Contact details

Given name:	Nicole
Family name:	Chappell
Email address:	sistanik84@gmail.com
Country:	Australia
Postcode:	0870
Phone number:	0423619281
Stakeholder type:	Community

Feedback

Category type:	Social and cultural, Flora and fauna, Water, Waste Management, Climate change, Human health, Chemicals, Regulation and compliance, Well integrity
If other, please specify::	

Dear Hon Environment Minister Lauren Moss Our names are Nicole Chappell and Cassandra Wiles and we live in Alice Springs. We are writing to you to share our concerns with Origin's Amungee NW Delineation environmental management plan (EMP). We are long-term residents of Alice Springs. We have long held concerns about the development of a shale gas fracking industry in the Northern Territory. We have some serious concerns with the contents of this EMP, namely: 1. Production by stealth: Origin is proposing to keep the 12 wells in this EMP open for 730 days and sell gas to the Macarthur River Mine. Their license only permits them to 'explore' for gas, not 'produce' it. Allowing them to keep their wells open for over 5 times what is usually required to test how much gas is there and to sell it contravenes the government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper inquiry recommendations before the industry is fully allowed to go ahead. At the Senate Inquiry earlier this year the gas industry acknowledged that before production can take place, companies will have to go back and talk to traditional owners and secure their consent. Origin are proposing to start selling gas without having done these consultations with traditional owners. Allowing Origin to sell gas without a production licence would set a terrible precedent and undermine the integrity of our regulatory system and the trust that Territorians have in the Northern Territory Government to meet all 135 recommendations of the Pepper Inquiry. 2. Biodiversity: Origin's proposal does not adequately consider the risk to threatened species. The proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater,

Comments:	Yellow-spotted Monitor and the Pale Field-rat. Newly discovered endemic stygofauna (small invertebrates like shrimps which live in groundwater) are also present in the project area. The EMP does not include any measures to monitor for or protect these underground species. Origin Energy want to drill and frack throughout the year, with the first two wells scheduled to be drilled over the 2022-2023 wet season. They are trying to ignore the more severe environmental risks that occur in the wet season and the risks of flooding and waste water overflow and contamination. 3. Climate Impacts: Origin's proposal would result in 535,651 tonnes of direct, scope 1 greenhouse gas emissions being released. This is equivalent to 1.5 times the annual GHG emissions of the town of Alice Springs, (1 Alice Springs Town Council – Climate Action Plan 2018–2021 : page 10) Origin has not addressed the Scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (keeping 12 wells open for more than five times the usual appraisal period, which will create a massive carbon footprint of over two million tonnes CO2-e) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible. These emissions will hurt the climate and they count towards the Northern Territory's emissions targets. Water and waste: Origin Energy will need 430 million litres of water to drill and frack the 12 wells and will be taking it from the Gum Ridge Formation, which is equivalent to 172 Olympic swimming pools of water. They will also produce 90 million litres of wastewater which they are planning to truck interstate. In addition, Origin's cumulative impact statement was really weak and didn't account for the secondary impacts of the development. A concrete example is that Territory Sands has just applied for a water licence for 1,200 megalitres of water for mining 9000 tonnes of sand per well, needed by Origin to frack the proposed wells. We call on you as the minister to please: - reject this environmental management plan due to the significant impacts it poses to climate, to local biodiversity and to groundwater. - refer this environmental management plan to the Environment Protection Agency under the Environment Protection Act for full and thorough assessment given the significant impacts Origin's proposed development will have on climate, water and biodiversity. We hope you take my concerns into account and will follow the progress of this application closely. Kind regards, Nicole Chappell and Cassandra Wiles 9 Ewart Pl, Gillen Alice Springs NT 0870 E: sistanik84@gmail.com
Attachment:	No file uploaded
Privacy:	

From:	Shirley Crane
To:	OriginPetroleum DEPWS; Minister Moss
Cc:	tanya.plibersek.mp@aph.gov.au
Subject:	Submission on Origin Energy Amungee NW Delineation Program
Date:	Thursday, 11 August 2022 8:57:56 PM
Attachments:	Submission on Origin"s Amungee NW Delineation Program.docx

As a long-term resident of the NT, I share the concerns of many regarding the risk that fracking will pose to the future of this unique landscape. I feel that we can no longer afford to ignore the impact of human activity, particularly the use of fossil fuels, on the environment and the climate. We have already experienced catastrophic effects of climate change, and it is distressing to see that the future seems very bleak if we continue down the current path.

The fracking industry appears to be attempting to bypass the recommended safeguards, but if it is permitted to do so, it places at risk the viability of life in the NT, not only for human communities, but also for the flora and fauna that is our sacred trust.

I have attached a submission on the Origin Energy Amungee NW Delineation Program, because the EMP that Origin has submitted is not only inadequate, but seeks to move Origin from the exploration phase to production, while only operating under an exploration licence. It is the thin edge of a wedge to see how far the industry will be permitted to go without the constraints of legal process.

Thank you for your attention. My submission is attached.
Yours sincerely
Shirley Crane
Resident of Katherine East NT

Submission on Origin's Amungee NW Delineation Program

Dear Hon Environment Minister Lauren Moss

My name is Shirley Helen Crane and I live in the suburb of Katherine East.

I am writing to you to share my concerns about Origin's Amungee NW Delineation EMP.

My connection to this issue is as follows:

I have some serious concerns with the contents of this EMP, relating to the following areas:

Production by stealth: It appears that Origin is investigating the possibility of keeping 12 wells open for a total of 730 days and selling the gas produced by those wells to the Macarthur River Mine, while still supposedly engaged in exploration, claiming that it will assist with management of the pressure created by extracting the gas. If that occurs, it will mean that Origin is engaged in production, in contravention of its licence to explore, without actually having declared that it has entered the production phase, and without the required agreements in place. This will constitute a serious breach of understanding, since it contravenes the SREBA and bypasses both the water allocation plans and some of the crucial recommendations of the Pepper Inquiry. It seems to indicate that Origin is attempting to skirt around the Government's requirements without being called into account.

Biodiversity: The area of land that Origin has indicated it needs to clear is home to a number of threatened species, such as the Gouldian finch, the grey falcon, the painted honeyeater, the yellow-spotted monitor and the pale field-rat. These species are seriously endangered and are teetering on the edge of extinction. The land clearing will wipe out some of the last colonies of these creatures. The stygofauna present in linked aquifers will also be at risk if any of the aquifers are contaminated, because the contamination will creep, as we've already seen with PFAS in the Katherine Region. These creatures are essential to the maintenance of the health of our groundwater, and communities and the flora and fauna depend on that groundwater for survival.

Climate: The enormous output of greenhouse gas emissions created by the ongoing development of this project are likely to make the prospect of meeting the newly legislated targets for Australia's contribution to greenhouse emissions unachievable. We are already seeing catastrophic effects of climate change, with the recent bushfires, drought and flooding. We will be responsible not only for our own direct contribution to the world emissions total, but also for the emissions created by those countries we sell to that burn Australian gas. Where contaminated fracking fluid is stored in open pits, there is always the risk that a heavy wet season will see overflows carry contaminated waste water into the surrounding environment.

Water: Our water is our most precious resource, but it is seriously threatened by fracking, through depletion of supply, reduction in the water table and possible contamination. Once the damage has been done, it is too late – there is no way to fix the situation. Too little is known about our underground water, and until adequate research has been carried out, there are risk factors that haven't even been identified.

Environment: As far as I am aware, there is still no suitable material identified that will satisfactorily repair a damaged well casing. The past practice was to try to backfill cracks in the concrete with slurry, but that was found to be totally ineffective. GISERA was commissioned to look into possible materials that could be substituted for the cement slurry, but I don't believe anything has yet been found that will satisfactorily repair a damaged well casing. Therefore, there is the risk of contamination escaping into the environment through well damage.

I call on you as the Minister to please prevent Origin from moving into production by stealth, by refusing the EMP and referring it in its entirety to the EPA for a full environmental impact study.

I hope you take my concerns into account and will follow the progress of this application very closely.

Kind regards,

Shirley Helen Crane

11 Finnisn Place, Katherine East 0850

shirley.h.crane@gmail.com

Moblie Phone: 0408 223 359

Date: 11 August 2022

From:	laura.cusack@iinet.net.au
To:	OriginPetroleum DEPWS
Cc:	Minister Moss
Subject:	Submission regarding Origin Energy's Environmental Management Plan on EPs 98 & 76
Date:	Sunday, 14 August 2022 10:20:54 PM
Attachments:	Submission regarding Origin Energy's Environmental Management Plan on EPs 98 & 76.docx

Please find attached to this email a submission regarding Origin Energy's Environmental Management Plan on EPs 98 & 76

Kind regards,

Laura Cusack & Trevor Wie

Submission regarding Origin Energy's Environmental Management Plan on EPs 98 & 76

We are writing with concerns relating to Origin Energy's Environmental Management Plan (EMP) on EPs 98 & 76. This EMP shows that it fails to meet the criteria for approval set out in the Petroleum (Environment) Regulations 2016. As such the EMP should be rejected by the Environment Minister or referred to the Environment Protection Agency (EPA) for assessment.

There are multiple flaws with this EMP which makes it fall short of the standards required under the Petroleum (Environment) Regulations 2016 and should not be approved.

Under this EMP Origin Energy is proposing to keep the twelve wells open for 730 days and to produce and sell gas to the Macarthur River Mine. The 730 day time frame to keep the wells open proposed by Origin Energy is over five times what is usually required to test how much gas is present. The license only permits Origin Energy to 'explore' for gas, not 'produce' and sell gas. Allowing Origin Energy under to keep the wells open for 730 days, to produce gas and provide it to the Macarthur River Mine contravenes the government's commitment to complete scientific baseline assessment of the region (SREBA), water allocation plans, and other crucial Pepper Inquiry recommendations before the industry is fully allowed to go ahead.

In addition to the above points regarding the premature production of gas, at the Senate inquiry earlier this year there was an acknowledgement that before production of gas can take place, gas companies will have to talk to Traditional Owners and secure their consent for gas production to take place. By allowing Origin Energy to produce gas under this EMP the government would be allowing Origin Energy to produce gas without making agreements with Traditional Owners and without Pepper Inquiry requirements in place.

There is also the issue of over 535,651 tonnes of direct, scope 1 greenhouse gas emissions being released under Origin Energy's proposal. This is equivalent to 1.5 times the annual green house gas emissions of the town of Alice Springs.

Origin Energy has not addressed the scope 3 emissions from the proposal nor have they demonstrated how their extensive well use (ie keeping 12 wells open for more than five times the usual appraisal period) is necessary or consistent with keeping the climate impacts of this project as low as reasonably possible (ALARP), a condition of EMP approval.

In addition, Origin Energy's proposal does not adequately consider the risk to threatened species in the area. The proposal includes clearing 60km of seismic lines and an additional 111 hectares of clearing in an area where 15 threatened species are potentially present, including the Gouldian Finch, Grey Falcon, Painted Honeyeater, Yellow-Spotted Monitor and the Pale Field-Rat.

There is also the newly discovered endemic stygofauna, small invertebrates like shrimps, which live in groundwater in the proposed project area. The EMP does not include any measures to monitor for or protect these underground species. The shrimp are very sensitive to environmental changes especially changes to sediment.

In addition to not having an appropriate assessment of impacts of threatened species and biodiversity within the proposed project area, Origin Energy also want to drill and frack throughout the year, with their first two wells scheduled to be drilled over the 2022-2023 wet season. Origin Energy have not appropriately assessed the more severe environmental risks that occur during the wet season including the risks of flooding and waste water overflow and contamination.

Origin Energy will need 430 million litres of water to drill and frack the 12 wells which is equivalent to 172 Olympic swimming pools of water. The water is proposed to be taken from the Gum Ridge Formation.

There is also the matter of over a billion litres of water that would be needed to clean the sand needed for the wells which has not been addressed in the EMP.

Given the potential significant impact of the plan, in particular in the context of cumulative impacts, we recommend that the Environment Minister refuse to consider this EMP and refer this EMP to the Environment Protection Agency under the Environment Protection Act for full and thorough assessment.

Kind Regards,
Laura Cusack & Trevor Wie
Residents of the NT

From:	Georgina Gartland
To:	OriginPetroleum DEPWS
Subject:	Submission: Origin Energy B2 Pty Ltd environment management plan (EMP) Amungee NW Delineation Program
Date:	Monday, 15 August 2022 2:46:10 AM
Attachments:	Origin Energy Environmental Management Plan f (Augst 2022).pdf

Department of Environment, Parks and Water Security
Petroleum Operations Unit
PO Box 3675
Darwin NT 0801

Re : Origin Energy B2 Pty Ltd environment management plan (EMP) Amungee NW Delineation Program

Dear Committe

Thank you for accepting comments regards this process.

concerned Australians (*CA*) **call on this committee to reject Origin Energy's Environmental Management Plan.** We provide related background information about the diminished land, human and Indigenous rights that First Nations Peoples of the Northern Territory have endured over the past fifteen years. We share concerns about flawed consultation and consent processes then and now, and address serious concerns regarding Origin Energy 's consultation processes in the Beetaloo Basin and with Origin's Environmental Management Plan (EMP) over the Amungee Station which proposes 12 new drills /wells in the Beetaloo; pages 6-10. Pages 11-21 are Appendices which voice First Nations concerns and advice.

Georgina Gartland for
'concerned Australians'
PO Box 2903
Rowville, Vic 317

‘concerned Australians’ *CA*

Submission to the Northern Territory Department of Environment and Water Security.
Re: Origin Energy B2 Pty Ltd environment management plan (EMP) Amungee NW Delineation Program[1]. 14082022

‘concerned Australians (*CA*) **call on this committee to reject Origin Energy’s Environmental Management Plan.** We provide related background information about the diminished land, human and Indigenous rights that First Nations Peoples of the Northern Territory have endured over the past fifteen years. We share concerns about flawed consultation and consent processes then and now, and address serious concerns regarding Origin Energy ‘s consultation processes in the Beetaloo Basin and with Origin’s Environmental Management Plan (EMP) over the Amungee Station which proposes 12 new drills /wells in the Beetaloo; pages 6-10. Pages 11-21 are Appendices which voice First Nations concerns and advice.

Background

CA has worked with and ‘listened closely’ to community elders and leaders of the Northern Territory for over fifteen years following the onset of the discriminatory 2007 Northern Territory Emergency Response/ NT Intervention. This policy was imposed by the Australian State over First Nations communities across the NT and was widely condemned by human rights, legal and church groups, and the United Nations over years. Other Northern Territory policies like the 2008 Super Shires and Hub Towns polices further compounded disempowerment and loss of rights; community assets infrastructure frozen/ removed. The Intervention was strengthened and extended for a further ten years in 2012 and became known as Stronger Futures and related legislation. Parts of the legislation package have recently expired but the Intervention and discrimination continues in ways.[1] The destruction, damage to, and impoverishment of the people has been profound. Human and land rights have been greatly diminished. Communities saw the Intervention as **a land grab**.

Not just 73 ‘prescribed areas’, but all town camps and community living areas (CLAs) -of which there are between 500-600 CLAs-were impacted. This formed the larger part of the 2007 legislation package. Lands were compulsory acquired and five years leases imposed. Later lengthier leases of 15-40-69-99 were coerced in exchange for housing and services , not always provided. Harsh and racist policies incarcerated and impoverished Aboriginal people splitting up family , kin and wider community. Their authority and structures were heavily undermined. Punitive and blanket compulsory income management crushed made life near impossible for many, and financial penalties were imposed over families who received any form of social security if their children did not attend school, or if people did not attend the harsh work for the dole commitments the were heavily penalised and fined. Tens of thousands of fines . Children were again removed from families and communities-mostly for extreme poverty related conditions (neglect). The people speak of a second stolen generations and academics and reports refer to cultural genocide.[2] Policies deliberately denied housing and related services in NT homelands. Read The Wasted Years[3] and

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[1] The Intervention continues in other ways and through other related legislation today, e.g. . Basics Card; 99- year Aboriginal township leases etc

[2] Stephen Gray, Senior lecturer, Castan Centre for Human Rights Law, Monash University. Head researcher of The Northern Territory Intervention: an Evaluation report (Feb 2020) pp 5 & 53. https://www.monash.edu/__data/assets/pdf_file/0003/2106156/NT-Intervention-Evaluation-Report-2020.pdf
Martin Cook, Damien Short, *Political Economy of Genocide in Australia: The architecture of Dispossession Then and Now*, in Bachman, J. (ed.) Cultural Genocide: Law, Politics, and Global Manifestations. New York: Routledge. 2019. Republished with permission at http://www.concernedaustralians.com.au/media/2019%20-%20MC%20DS%20A%20Political%20Economy%20of%20Genocide%20in%20Australia-the%20architecture%20of%20Dispossession%20Then%20and%20Now.pdf

3 Greg Marks, *The Wasted Years* : *An overview of the changes in Government policy impacting on Aboriginal communities in the Northern Territory , Australia, over the past 15 years,* June 2020.

culturally relevant community jobs (with top up social security income) was scrapped. People were coerced off county into larger growth towns/ hub areas. This is all relevant as the major part of the NT Intervention legislation was about the land. Remote and regional areas heavily sought after for their mineral wealth.

The Aboriginal Land Rights Act in the Northern Territory (ALRA-NT) in 2007, prior to (in 2006)[4] and following, and again, as recently as December 2021- *the Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021* [5] -was amended /eroded.

In 2006 First Nations communal land tenure and governance was turned upside down benefiting others.[6] The 2007 Intervention legislation allowed the compulsory land acquisitions and new leasing arrangements etc , and later Stronger Futures in the Northern Territory Regulation 2013 saw the *duty to consult* elders over their community living areas in effect made void, handing ultimate power to the Minister in Canberra. [7] The reforms relied on the Land Reform section of the Stronger Futures legislation - Subsections 35(4) and 35(5[8]). At the time the Hon Alastair Nicholson made the following point,

> *AS The effect of this legislation is to give the Minister almost unlimited control over the uses of town camps and community living areas and in particular to enable their development for private purposes, presumably for profit.* [9]

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[4] Relevant as this allowed the augmentation of Sect 19A of the ALRA and there was a push to 99-year leasing of whole Aboriginal townships. With some changes and promises of Aboriginal control (but without any details and other concerns) Sect 19A leases were embedded into the ALRA-NT in December 2021.

[5] There were serious concerns about lack of consultations

[6] Jayne Weepers, ***Leasing reforms on Aboriginal land in the Northern Territory: Impacts on land rights and remote community governance***, ANU, (April 2021). https://caepr.cass.anu.edu.au/research/publications/leasing-reformsaboriginal-land-northern-territory-impacts-land-rights-and

Former Indigenous Affairs Minister, Ian Viner AO QC (who instituted the ALRA in 1976) is scathing of the 99-year township leases, which he believes are unnecessary, and alienated [divided up] Aboriginal lands, greatly diminishing Aboriginal land control. He sees this as tantamount to colonial tactics of old and was scathing of other changes made to the Act in 2006 that allowed the use of the Aboriginal Benefit Account to fund the new Government 99-year leases [and the administration and office of the EDTL]. He said,

> *"It is wrong of the Commonwealth to promise funding for community infrastructure, including public buildings and housing only on condition of the handing over of 99-year leases. That is coercion or bribery no better than the exchange, colonial-style, of "beads and bangles" by which Indigenous people around the world were deprived of their traditional lands. Those days should have long passed out of Government thinking and policies.*
>
> *The situation is worse when it is understood that the money the Commonwealth promises to spend if a community agrees to a 99-year lease will be the Aboriginal people's own trust money taken from the Aboriginal Benefit Account (ABA). That really is a smoke and mirrors promise….*

Viner concluded the "… *Commonwealth needs to take a step back from present policy in the Northern Territory. Governments of all political colours should start treating Aboriginal people, their*

> *lives and their lands with dignity and respect for the capacity to know what they want for their own futures.*

Perhaps Viner was prophetic as he added that *Land Councils, traditional owners and*

> *communities need to come together to protect the legacy of the Land Rights Act, stand firm under their own leadership, and decide for themselves the way forward."* **Ian Viner**, *The Plan to Undermine the Land Rights Act*, Ian Viner AO QC, (2014) . Republished with permission of the NLC at http://www.concernedaustralians.com.au/media/Ian_Viner_Plan_to_undermine_Land_Rights_Act.pdf

[7] 'concerned Australians' , ***In the Absence of Treaty***, pp16-31 http://www.concernedaustralians.com.au/media/In_The_Absence_of_Treaty.pdf

[8] Ibid pp17-18.

[9] Ibid, p 18.

‘concerned Australians’ *CA*

Submission to the Northern Territory Department of Environment and Water Security.
Re: Origin Energy B2 Pty Ltd environment management plan (EMP) Amungee NW Delineation Program[1]. 14082022

CA have long held serious concerns about ‘consultation’ processes which have proved to be grossly flawed and little more than information session/ a tick the box exercise. Communities and Traditional Owners have been too often sidelined or ignored in their concerns and priorities. Flawed consultation processes were shown up throughout the NT Intervention’s and ‘so-called’ consultations . These have been documented in various reports or books that we were associated with in 2009[10], 2011,[11] 2013 [12] . We hold grave concerns about the recent 2015-2019 -2021 consultation process which the Government it seems delegated its role to the land councils. This can be a very good thing . But did consultations occur regarding the proposals and specifics of this 2021 Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021 (ALRA-NT EE Bill) in communities. Traditional Aboriginal Owners (TAOs) and communities we knew were mostly unaware. Refer to TAOs and local Aboriginal Organisation submissions [13] to this inquiry. Appendix 1 - Consultations ? Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021) provide some stark concerns. The vast majority of the 67 submissions called for more extensive consultations and more time over this Bill.

Since there are serious concerns about the removal of TAO control over the permit system, the streamlining of processes(further) regarding mining and exploration, and potential for sidelining Traditional Aboriginal Owners and Native Title holders further. Land councils in future will it seems have more control and have more flexible arrangements with how they consult. Professor Jon Altman [14] and Michael Dillion[15] and others raised concerns. As did the Senate Standing Committee for the Scrutiny of Bills regarding lack of detail.[16]. Despite all the serious concerns to this inquiry just two amendments to the legislation were passed.[17] June Oscar AO, the Aboriginal and Torres Strait

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10The Hon. Alastair Nicholson, Larissa Behrendt, Alison Vivian, Nicole Watson and Michele Harris - Research Unit Jumbunna Indigenous House of Learning, “Will They Be Heard?” – a response to the NTER Consultations June to August 2009, http://www.concernedaustralians.com.au/media/Will-they-be-heard-report.pdf
And ‘concerned Australians, *This Is What We Said* (2010), http://www.concernedaustralians.com.au/media/This_Is_What_We_Said.pdf

[11] Read ‘concerned Australians, *NT Consultations Report 2011* (2011), http://www.concernedaustralians.com.au/media/NT_Consultations_Report_2011.pdf
And *A Decision To Discriminate (*2012) http://www.concernedaustralians.com.au/media/A_Decision_to_Discriminate.pdf

[12] Community Living areas consultations , pp 21-33 http://www.concernedaustralians.com.au/media/In_The_Absence_of_Treaty.pdf

[13] Ms Rikki Dank Lhudi Noralima of the Gudanji and Wakaya Nations (NT), submission 10 **(PDF 82 KB)** ;
- Mr Yiŋiya Guyula MLA, Member for Mulka , submission 24, **(PDF 1041 KB)**
- Mr Ian Mongunu Gumbula , submission 42, (PDF 47 KB)
- Ngurratjuta/Pmara Ntjarra Aboriginal Corporation, submission 16, (PDF 210 KB)
-Urapuntja Aboriginal Corporation, submission 59, **(PDF 48 KB)**
- Name Withheld, submission 65, **(PDF 56 KB)**
-The Hon. Selena Uibo MLA, Northern Territory Minister for Aboriginal Affairs , submission 67 (PDF 1083 KB)
- Uniting Aboriginal & Islander Christian Congress & the Northern Regional Council of Congress , Submission 14 **(PDF 287 KB)**
- Australian Human Rights Commission, submission 38, (PDF 260 KB)
All submissions at https://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Finance_and_Public_Administration/ALREconomicEmpowerment/Submissions

[14] Emeritus Professor Jon Altman, School of Regulation and Global Governance, the Australian National University, Canberra in his submission 9, **(PDF 277 KB)** , and in previous articles/ meetings of (13 October 2021) http://www.concernedaustralians.com.au/media/Economic-Empowerment-Bill-2021-Jon-Altman-assessment.pdf
Read also Altman’ ‘speaking notes’ of 27 October 2021 http://www.concernedaustralians.com.au/media/Economic-Empowerment-Bill-2021-Land-Rights-at-Risk-again-talk-27-10-21.pdf

[15] Michael Dillon, submission 4 , ALRA-NT EE (2021) **(PDF 181 KB)**

[16] 2.36-2.81.
https://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Finance_and_Public_Administration/ALREconomicEmpowerment/Report/section?id=committees%2freportsen%2f024828%2f78302

[17] (1) Schedule 1, item 19, page 46 (line 4), omit “may”, substitute “must”.
(2) Schedule 1, item 19, page 46 (after line 5), after subitem (4), insert:

Islander Social Justice Commissioner (as did many others) called for meaningful and more consultations , and more time for this. Oscar also addressed future consultation processes on the 2021 Bill (which did not eventuate) and the requirements of Free Prior and Informed Consent in the Australian Human Rights Commission's submission to the 2021 Senate inquiry. [18] There were also

other issues around transparency with the new financial structure and lack of detail in legislation[19] which she and many others , including Professor Jon Altman raised in their submissions.[20]

As researcher and former international lawyer specialising in Indigenous human rights , and former resident and worker in the Northern Territory , Greg Marks, pointed out in the Senate inquiry about consultations,

> … . *The Land Councils it appears are* [now] *the gate keepers when it comes to consultation. This gatekeeper role is also evident in the* [Ken Wyatt*] Minister's statement that the land councils had consulted with 220 elected landowners. The 220 elected landowners are the elected members of the Land Councils****. This is not the way that consultation works for Aboriginal Traditional Owners.*** *Consultation cannot be mediated through third parties, even elected representative parties.* ***As is well known, a fundamental of Aboriginal law and custom is that Aboriginal people cannot speak for or make decisions about land for which they are not directly responsible according to that Aboriginal law and custom****. The Government cannot delegate its responsibilities for consultation to Land Councils, who in turn are consulting indirectly through elected land council members. Now, there may be difficulties in consulting all Traditional Owners, especially in a time of travel limitations because of COVID 19,* ***but a bona fide attempt has to be made by Government to consult widely*** *and to obtain a cross-section at least of the views of Traditional Owners, and other affected Aboriginal communities or groups, before proceeding with legislation of such moment. This is not to displace the role of Land Councils, which is critically important, but* ***to ensure that the appropriate consultation processes are followed.****[21]***(**2021)

(4A) The Minister must table a copy of any progress report given to the Minister in each House of the Parliament within 15 sitting days of that House after the Minister receives the report. Click on Schedule of Amendments at https://www.aph.gov.au/Parliamentary_Business/Bills_LEGislation/Bills_Search_Results/Result?bId=r6766

[18] ***Streamlining' and the potential impact on FPIC*** *Of further concern to the Commission in the context of FPIC are the provisions of the Bill described in the following paragraphs of the Explanatory Memorandum:*
20. Current processes for exploration and mining under the ALRA can be difficult to navigate, unnecessarily time consuming and costly for all stakeholders. The Bill will improve the application and consent process by enabling applicants to provide further information in support of their application or amend an application without having to recommence the application process. This will save the applicant significant savings in time and cost, particularly where an application is amended late in the negotiating period.
21Further time and cost savings will result from amendments to allow Land Councils to take a more flexible approach to holding meetings with traditional owners in relation to exploration licence applications.
In principle, the Commission supports reforms to make decision-making and approval processes more efficient, however, this should not come at the expense of the procedural rights and the control over decision-making of Traditional Owners. As noted by the Expert Indigenous Working Group to the COAG Investigation into Indigenous Land Administration and Use (COAG Investigation), 'the principle of free, prior and informed consent should underpin any decision to delegate, streamline or preauthorise decision-making, p.6.
Australian Human Rights Commission, submission 38 (PDF 260 KB)

[19] Including the Scrutiny committee, refer sections
https://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Finance_and_Public_Administration/ALREconomicEmpowerment/Report/section?id=committees%2freportsen%2f024828%2f78302

[20] Emeritus Professor Jon Altman, submission 9, **(PDF 277 KB)**
Mr Gregory Marks (PDF 117 KB) 8.1 Supplementary to submission **8 (PDF 77 KB)**
Dr Ed Wensing, submission 31, **(PDF 371 KB)**

[21] Greg Marks , Submission (8) to ***Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021*** **p, 3 at** (PDF 117 KB)

Despite the rhetoric of Governments and land councils we suspect that TAOS and communities , other than land council delegates themselves , knew little of the proposed and specific changes to the Act (which were only made public in late August 2021) , and little about the of the 'so-called' 3–5-year co-design process. The latter seems to be a new buzz word. Discussion papers are not readily available, and little seems to have been written in previous land rights news over this period till August 2021. There are references in some land council minutes, as they pointed to in their submission to the inquiry.

As significant Traditional Owners and communities that we knew had no knowledge of the Bill at all in early August 2021 rang serious alarm bells. CA called for a Senate inquiry . The Section of Bills Committee did refer this to an Inquiry. The reasons being:

> *-Insufficient consultations on the proposed bill with affected first Nations communities and traditional owners*
> *-Potential weakening of the first Nations land rights*
> *-Potential weakening of consultation with traditional owners , particularly in relation to mining and exploration processes*
> *-Strengthening of land council powers*
> *-Implications of changes to the ABA and establishment of the NTAI*
> *-Re-definition of Aboriginal person*[22]

Meaningful consultations and negotiations are paramount as is the need for Industry, Governments, and Aboriginal Organisations to gain the **Free, Prior and Informed Consent (FPIC)** from Traditional Aboriginal Owners Refer Appendix 2: Elements of a common understanding of free, prior and informed consent[23]

This does have relevance to this committee regarding Origin Energy and hope this committee promotes and encourage culturally relevant, respectful and meaningful consultation and negotiation processes and FPIC in all future matters over First Nations lands.

Is it a coincidence that the ALRA-NT was amended again in December 2021, following the formation the of the new 2020 Nurrdalinji Aboriginal Corporation which collectively speaks for the Barkly and Beetaloo Basin Native Title Holders? This was formed to by-pass land council processes that had failed the Traditional Owners for years. [24] The new legislation could compromise the aims of the Native Title holders- the collective voice of the TAOs -if they are all not deeply engaged and informed and consulted about matters affecting their lands.

At this stage we understand there are others issues as Native Title law which does not allow the right of veto, and in addition the 1993 NTA has also been reformed/ eroded since former Prime Minister Howard's era. Many are calling for the Act to be strengthened in favour of Traditional landowners as the pendulum has swung too far back , particularly following the costly destruction of Jukkan Gorge in Western Australia. As Professor Jon Altman wrote in 2020 ,

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[22] http://www.concernedaustralians.com.au/media/Economic-Empowerment-Bill-2021-Reasons-for-referral-of-the-bill-Appendix-1.pdf

[23] Extract from United Nations Permanent Forum on Indigenous Issues, Report of the International Workshop on Methodologies regarding Free, Prior and Informed Consent and Indigenous Peoples (New York, 17–19 January 2005), UN Doc E/C.19/2005/3 (2005), paras 46–49. At http://www.un.org/esa/socdev/unpfii/en/workshopFPIC.html
Also, in Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021 submission 38, pp 9-10.

[24] .....

> *Currently, inadequate native title arrangements are allowing the destruction of Indigenous material and spiritual heritage and eroding forms of Indigenous self-determination and limited sovereignty. Second, the late historian Patrick Wolfe argued that the Australian settler-colonial formation is premised on displacing Indigenous people from the land to access it for exploitation. Today, the extraction of minerals from native title lands remains an enduring, arguably escalating, characteristic of the late-capitalist settler-colonial society, despite native title law. Marxist geographer David Harvey terms this process capitalist accumulation by dispossession; for those with recently recognised native title, this process is, sadly, accumulation by re-dispossession.*

Altman is correct the current 1993 Act supports dispossession, …*mineral extraction and heritage destruction*.[25]

Such is the neo-colonial and assimilationist onslaught that First Nations Peoples across Australia, especially in the Northern Territory , are calling for truth telling, respect for their Traditional voices, and for agreement making - treaty/ies Now. For the right to control and manage their lives and lands. Their own structures are to be respected as they had successfully for over thousands of generations.

We recommend this committee consider the June Oscar-AHRC submission[26] to the Senate 2 which addresses meaningful consultation processes and the elements of Free , Prior and Informed Consent (See also Appendix 2.) [27]

Any processes involving First Nations Peoples be it between the Northern Territory Government , or a statutory body of the Territory/ Federal Governments (like land councils) , or with industry involving First Nations Peoples lands must allow for cultural Integrity , mutual respect and mutual responsibility. In April 2009 Australia belatedly endorsed the UN Declaration on the Rights of Indigenous Peoples (UNDRIP), *which explicitly refers to the need for free, prior and informed consent to be granted by Indigenous landowners before any development can occur on their land.*[28] Australia is yet to apply this into law .

Regarding Origin Energy

1. Traditional Aboriginal Owners (TAOs) clearly reject Fracking in the Beetaloo Basin , including on the Amungee Station which Origin Energy proposes to drill 12 wells. The original Origin Energy consent processes in 2004 provided limited information and consultations since have been fraught with issues-lacked detail, interpreters, and culturally relevant processes etc. The full information about the hydraulic fracking processes and the extent to which how many wells would be built was not provided. Johnny Wilson, a Gudanji-Wambaya man who learnt that a gas well was being built about 20 kilometres from his ancestral home off the Carpentaria Highway reminded us in May this year that

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[25] Jon Altman, *The Native Title supports mineral extraction and heritage destruction*.(June 2020) https://arena.org.au/the-native-title-act-supports-mineral-extraction-and-heritage-destruction/

[26]**June Oscar, Australian Human Rights Commission,** submission 38 (PDF 260 KB)

27 Ibid

28 Footnote 25.

> *Fracking companies are operating on our country under exploration agreements made decades ago, before our native title was even recognised. When these agreements were made we did not know what fracking involved, or the scale of the development to come. We have never consented to what is now proposed. If the scale of fracking plans and the risks had been fully and properly explained to us, we would not have agreed to the grant of permits that allow the companies to enter onto our country in the first place. Our cultural heritage is connected by the waters that flow under the ground. Those waters hold us and our stories together. We have not been consulted or listened to about the risks to our cultural heritage arising from interference with those waters.*
> ***Water is life.***[29]

2. **Free Prior and Informed Consent**[30] has not been achieved yet Origin Energy continues to blatantly disregard human and Indigenous rights and the deep Indigenous knowledges of this area. This breeches international human rights and other treaties , convention and declarations that we are signatory to.

3. The Native Title holders fear for their underground waters/ aquifers, their lands, and their extended songlines which will be sliced. Such are their concerns that they formed as organisation in 2020 to fight fracking on their countries . Their physical, mental and social health, and cultural heritage is definitely at risk. Hence why we , *CA* thus calls on this committee to **reject Origin Energy's Environmental Management Plan.**

4. In addition, we note that Origin Energy's Environmental Management Plan (EMP) for the Amungee proposal seemed hasty , limited in detail, and does not stack up. Many others to this inquiry will testify to this, including friend to *CA* , Greg Marks BA (Economics); Dip Ed; M Int Law (Indigenous Rights); MAIATSIS. We fully endorse his concerns and submission to this inquiry . **We remind this committee that the moratorium on Fracking in the Northern Territory was lifted only on the understanding that all 135 recommendations**

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[29] Miki Perkins, , **Fractured future: Water fears as drilling for gas begins in the NT , October 2019**
https://www.smh.com.au/national/fractured-future-water-fears-as-drilling-for-gas-begins-in-the-nt-20191003-p52xfj.html

[30] June Oscar AO Aboriginal and Torres Strait Islander Social Justice Commissioner Australian Human Rights Commission **, "***THE RIGHT TO FREE, PRIOR AND INFORMED CONSENT to decisions affecting us is enshrined in the United Nations Universal Declaration on the Rights of Indigenous Peoples (UNDRIP) which applies to First Nations peoples the right to self-determination found in the Universal Declaration on Human Rights. Free prior and informed consent requires genuine consultation, which, in the case of remote Aboriginal Territorians, takes time and resources.*
Free, prior, and informed consent is the right to give – or not give – our consent before certain actions affecting us can occur. It is one of the most important principles to protect the right to participate in decision-making and ensure it is expressed in a way that builds community cohesion.
*Free, prior and informed consent recognises Indigenous peoples' inherent and existing rights and respects our legitimate authority to require that third parties enter into an equal and respectful relationship with us, based on the principle of informed consent. This principle applies not only to administrative acts and decisions, and the exploitation of our resources and lands, but also to the legislative process itse*lf. **Australian Human Rights Commission** . submission 38 to the Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021, p2.
Refer also to Appendix 1 **Elements of A Common Understanding of Free, Prior And Informed Consent**, pp 9-10 with submission 38.

were fulfilled. The EMP clearly does not fulfill all 135 recommendations of the Pepper inquiry and thus should be rejected .

5. Re the Pepper Inquiry it was reported

"A significant majority of people who took part in the Northern Territory government's inquiry into fracking said the industry was not safe, trusted or wanted. "It must be noted that the strong antipathy surrounding hydraulic fracturing for onshore shale gas demonstrated during the consultations did not abate," the inquiry committee, headed by Justice Rachel Pepper, wrote in its final report."

"It's impossible to overstate the importance of groundwater in the territory. About 90 per cent of regional water demand is supplied by groundwater, through bores. The Beetaloo Basin sits below the Tindall limestone aquifer, a large underground water system that feeds springs and rivers throughout the region. Dixon [a Mudburra man and one of 45 Native Title Holders] *is concerned that fracking will reduce the availability of groundwater for traditional owners and local communities as the climate crisis continues and imperil Mudburra country. Petroleum companies have failed to properly consult with the region's traditional owners, he says.* ***"The Mudburra went with the agreement because they didn't know this mining mob were coming around and talking the smooth way,"*** *says Dixon****. "They made agreements and didn't understand what they were signing up for."*** [31]

Wilson attended community meetings with other traditional owners in 2020 about the growth of shale gas exploration in the Beetaloo Sub-basin where they live, 500 kilometres south-east of Darwin. He became the chair of Nurrdalinji, which was set up as a Native Title Aboriginal Corporation to replace the existing native title representative, the Northern Land Council, which signed off on the drilling deals with gas companies up to 18 years ago.[32]

6. In 2020 the traditional owners of the Beetaloo formed the Nurrdalinji Aboriginal Corporation as they were very most unhappy with Origin Energy and Northern Land Council processes throughout decades. The 45 Native Title holders across the Barkly and Beetaloo speak with one voice and reject Fracking and the processes to date. They call for proper consultation processes and "*support members to be consulted about what happens on country and enable them to be heard so we can better determine future aspirations for our country"* .View their website here[33]

7. Chapter 4 of the 2021-2022 Beetaloo Basin Interim inquiry[34] provides testimony to the rejection of fracking and of the concerns around consultation processes Refer Appendix 3

8. There have been countless scientific and other local , national and international reports which speak to the dangers of hydraulic exploration and fracking /fossil fuels particularly within regards to massively increasing emissions which will exacerbate global warming and

[31] Miki Perkins, , **Fractured future: Water fears as drilling for gas begins in the NT , October 2019**
https://www.smh.com.au/national/fractured-future-water-fears-as-drilling-for-gas-begins-in-the-nt-20191003-p52xfj.html
[32] Timna Jacks and Justin McManus, *The traditional owners taking on NT's billion-dollar fracking industry*. (May 2022)
https://www.smh.com.au/interactive/2022/gaslighting-nt/
[33] https://www.nurrdalinji.org.au/
[34]
https://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Environment_and_Communications/BeetalooBasin/Interim_Report/section?id=committees%2freportsen%2f024744%2f77655

the current climate emergency. Fossil Fuels- the coal/ gas industry- is a dying industry as responsible citisens and Nations across the world are turning away . This industry and resources make no economic sense in the medium-long term as many economists have repeatedly attested to. Australian shareholders are divesting from it.

9. The climate emergency is at hand. Fracking should be banned. Australia will be left behind and is at great environmental risk.

10. In Australia, in the past few years alone, we have seen droughts fires and floods. Northern Territory is facing extreme temperatures. Rising sea levels have been impacting on Indigenous coastal regions and life therein for the past twenty years , and extreme weather conditions including cyclones in the north are increasing. Industry is demanding more and more resources and the water table/ levels in Central Australia are dropping. However , on the other hand and because of increasing extreme events the Beetaloo Basin is prone to flooding during the wet season . The spreading of hydraulic fracking contaminants is a real risk and not worth taking.

11. Hydraulic fracking processes place underground water resources /aquifers at great risk .To say that waste can be transported interstate we believe is reckless, a nonsense and abrogates industry responsibility.

12. **Water is Life**. People will be further dispossessed off their lands as we heard during our travels the NT April-May this year. Water is already contaminated in Borroloola (McArthur river mine issues) and Katherine (air force chemical contaminants) because of various industry . Industries promise locals much but deliver little as many, including TAOs such as Jack Green Garawa man of Borroloola , and Jonny Wilson (and many others) have often attested to . Upcoming youth leaders such as Nicholas Fitzpatrick a Yanyuwa and Garawa man and others continue to speak up for years. Appendix 3.

13. *cA* has read reports and discussed these and 'listened' to other concerns of First Nations friends and non- Indigenous friends of 'concerned Australians.'

14. Between April- May this year we travelled from Alice Springs in and out of the Barkly, then to Elliott , though Daly Waters to Mataranka , back to Beswick , Barunga, along the central Arnhem Highway to Nhulunbuy, back to Daly Waters and along the Carpentaria highway to Borroloola and into the surrounding town camps. We later spoke with people in Katherine and Darwin . First Nations Peoples we met <u>all</u> rejected Fracking

15. First Nations communities want sustainable and much affordable energy supplies, like Solar on their homes. Solar is in abundance supply across their Territory. Why not solar farms with battery back-up and a new energy grid? The lack of and state of disrepair of housing and overcrowding were serious issues (due to decades of government neglect and denial of funding over 15 years[35]. There have long been very serious concerns about unmade roads

[35] Greg Marks, *The Wasted Years* : *An overview of the changes in Government policy impacting on Aboriginal communities in the Northern Territory , Australia, over the past 15 years,* June 2020. http://www.concernedaustralians.com.au/media/Greg_Marks-The_Wasted_Years.pdf

and highways-including the Central Arnhem , Plenty and Sandover Highways. These are all impassable in the wet. Indeed, as we travelled in unusually wet conditions in April and May we were unable to reach into some Aboriginal communities as the road conditions were wet flooded in areas , very slow and dangerous. On two occasions we passed two massive trucks carrying equipment along the Central Arnhem road travelling at best 20-30 kms per hour. One had broken down. Yet other roads into mining areas off the Stuart highway were bitumen (and off limits.) Communities want their priorities addressed and sustainable industries and true partnerships. Industry that respects culture, country, and all within. They want respect and to work with industry and governments.

16. Appendix 3 raises the voices of Traditional Aboriginal Owners and other community leaders to be impacted by fracking- there is strong rejection and no consent

cA believe Origin Energy is continuing to disregard the views and concerns of Traditional Aboriginal Owners, Native Title holders and other non-indigenous landowners . And, despite all the scientific evidence , numerous reports including international climate reports etc it seems Origin is out of step at all levels.

Origin's EMP does not meet all 135 recommendations of the Pepper Inquiry.

'concerned Australians' call on this committee to recommend the rejection of Origin Energy's Environmental Management Plan over the Amungee Station.

We also call on this committee to recommend to the Northern Territory Government to move to ban fracking in the NT, and move towards sustainable and affordable energy industries , and to work cooperatively and respectfully with First Nations Peoples in this.

We urge this committee to engage in meaningful consultations / negotiations with Traditional Aboriginal Owners and respected structures and community Voices. Cultural Integrity , mutual respect and mutual responsibility essential in all processes.

We congratulated the NT Government in their commitment to truth telling and treaty/ies and encourage moves towards Treaty Now.

Thank you

Georgina Gartland for
'concerned Australians'
PO Box 2903
Rowville, Vic 317

Appendix 1 (1of 2) : Consultations?
Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021

For example, regarding this Bill

Yingiya Mark Guyula MLA, Member for Mulka , and a senior leader of the Liya Dhalinymirr people of the Djambarrpuyŋu clan of the Yolngu peoples said in his submission on

> *Consultation*
>
> *The Aboriginal Land Rights (Northern Territory) Act 1976 (ALRA) is the most significant Balanda Law for the protection of First Nations rights in the Northern Territory. Any changes to this legislation must be made carefully and with consideration for the ongoing future impact of our people. I became aware of proposed amendments in August this year when they were brought to my attention by an interested party, following media statements from the Office of the Minister for Indigenous Australians. Two weeks later the Bill had been introduced to the Parliament. I, like many other First Nation land owners and leaders across the Northern Territory was not made aware of this Bill, nor were we consulted. I have now spoken widely to elders and leaders in my electorate and they do not know about any changes to the ALRA. I have also spoken to members of the Land Councils from my own electorate and more broadly across the regions, and they have advised that they do not know the detail of the Bill. One councillor said, "we hear rumours about changes to the Land Rights Act but no one ever comes to talk to us about what it is." Other councillors believed they would be consulted at their next meeting.* Yingiya Mark Guyula, MLA.[36]

A Senior cultural elder from both Ngukurr and Galiwinku Community, Mr Ian Mangun Gumbula said,

> *Our people out on country do not know that this Bill is in parliament. They have not heard about the changes. There were no consultations or engagement with our people out on our country. That means that the great majority have been excluded from the process. The Bill has over 80 pages of changes to the Aboriginal Land Rights Act and it is complex law. We don't know what all of these changes mean and while these amendments may be helpful, we have not had time to understand or give our consent or consideration to the changes. We hold concerns about some of these changes and whether they are going to grow our self-determination or disempower us.*[37]

Rikki Dank (Lhudi Noralima) a Gudanji and Wakaya woman from Borroloola

> *The proposed aspiration of 'Economic Empowerment' is nothing but lip service to our people. If the empowerment of our people was a legitimate goal of government, then we would have been consulted in the development of this legislation, several years in the making. What is very clear is that the proposed amendments are nothing more than a cynical attempt to exploit an already exploited people.* [38]

An Aboriginal Corporation (incorporated and formed in August 1985) to benefit their communities (further south) deemed to be "affected" by the oil and gas mining operations at Mereenie and Palm Valley, added its concerns

[36] Mr Yingiya Mark Guyula MLA, Member for Mulka , and a senior leader of the Liya Dhalinymirr people of the Djambarrpuyŋu clan. (Submission24), *Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021.*
[37] Ian Mongunu Gumbula Sub 42 to *Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021.*
[38] Rikki Dank Lhudi Noralima, Gudanji and Wakaya Nations, Submission 10. to *Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021.*

Appendix 1 (1of 2) : Consultations?
Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021

***Key Issues with the Bill** 1.*

Developing the Bill secretly without engaging Aboriginal people in their communities and their organisations The Bill has been hailed by the Minister and Land Councils as the most significant reform to land rights since the Land Rights Act was passed in 1976. We are told by the Government that the Bill was informed by an extensive co-design process with Aboriginal Territorians through their Land Councils. That so called extensive co-design process occurred primarily through an ABA Reform Working Group, including representatives from the Commonwealth, Land Councils and the ABA Advisory Committee and another Working Group set up to review the exploration and mining provisions comprising representatives from the Land Councils, the NT Government and the Commonwealth. This so-called co-design process needs to be investigated by the Senate Committee. We were never aware of it and we think that is the case for most if not all community organisations across the Northern Territory. There were no public announcements by the Coalition Government that such a process was underway. Unlike with the co-design process that was led by the Coalition Government to develop the National Agreement on Closing the Gap, there was no agreement negotiated or published beforehand as to how the co-design process was to be conducted and more importantly there wasn't any formal engagement process with communities and their organisations. We and many other communities and their organisations had no input which is unfair and unjust and meanwhile the Government which is proposing that Parliament agree to this Bill has not involved us.[39]

An unnamed submitter added

As an NT Born and raised Aboriginal Traditional custodian, leader and father it has been overwhelming to have seen and read the response of many individuals and organisations in support of proper consultation regarding the proposed amendments to the above-mentioned bill.
As a former representative and member on the Northern Land Council as well as a member of the Aboriginal Benefits Advisory Committee that provides advice to the Minster, I can say without doubt the "consultations" about the proposed changes were not what I would consider a proper demonstration of "consultation".
…
We need more time and if this bill is passed without the proper consultation and consideration of the Aboriginal population then why even have the ALRA? There are also the other aspects of this bill that has not been talked about with Aboriginal people. The fact that as a traditional custodian an organisation that exists because there are Aboriginal people is now more important and seemingly above them. I agree there are flaws in the permit system, however that is a matter for the people on the lands, not the Land Council. If the land council wish to revoke a permit they must first and always get the permission of the people, they are meant to consult with. As a leader of my people, I speak for them with their support and permission and I always try my best to inform and consult with all family leaders within my people of potential matters or interest regarding our lands. The land councils should never ask for something that diminishes their rights. [40]

[39] Ngurratjuta/Pmara Ntjarra Aboriginal Corporation, Submission 16 , Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021

[40] Name Withheld, submission 65. , Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021

Appendix 2 (1 of 2)
Elements of a common understanding of Free, Prior and Informed Consent[41]

1. What

- **Free** should imply no coercion, intimidation or manipulation.
- **Prior** should imply that consent has been sought sufficiently in advance of any authorization or commencement of activities and that respect is shown for time requirements of indigenous consultation/consensus processes.
- **Informed** should imply that information is provided that covers (at least) the following aspects:
- the nature, size, pace, reversibility and scope of any proposed project or activity
- the reason(s) for or purpose(s) of the project and / or activity
- the duration of the above
- the locality of areas that will be affected
- a preliminary assessment of the likely economic, social, cultural and environmental impact, including potential risks and fair and equitable benefit-sharing in a context that respects the precautionary principle
- personnel likely to be involved in the execution of the proposed project (including indigenous peoples, private sector staff, research institutions, government employees and others)
- procedures that the project may entail.

- **Consent**

Consultation and participation are crucial components of a consent process. Consultation should be undertaken in good faith. The parties should establish a dialogue allowing them to find appropriate solutions in an atmosphere of mutual respect in good faith, and full and equitable participation. Consultation requires time and an effective system for communicating among interest-holders. Indigenous peoples should be able to participate through their own freely chosen representatives and customary or other institutions. The inclusion of a gender perspective and the participation of indigenous women are essential, as well as participation of children and youth, as appropriate. This process may include the option of withholding consent.

Consent to any agreement should be interpreted as indigenous peoples have reasonably understood it.

[41] Extract from United Nations Permanent Forum on Indigenous Issues, Report of the International Workshop on Methodologies regarding Free, Prior and Informed Consent and Indigenous Peoples (New York, 17–19 January 2005), UN Doc E/C.19/2005/3 (2005), paras 46–49. At http://www.un.org/esa/socdev/unpfii/en/workshopFPIC.html
Also, in Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021 submission 38, pp 9-10.

Appendix 2 (2 of 2)
Elements of a common understanding of Free, Prior and Informed Consent[42]

2. When
• FPIC should be sought sufficiently in advance of commencement or authorization of activities, taking into account indigenous peoples' own

decision-making processes, in phases of assessment, planning, implementation, monitoring, evaluation and closure of a project.

3. Who
• Indigenous peoples should specify which representative institutions are entitled to express consent on behalf of the affected peoples or communities. In free, prior and informed consent processes, indigenous peoples, United Nations organizations and Governments should ensure a gender balance and take into account the views of children and youth, as relevant.

4. How
• Information should be accurate and in a form that is accessible and understandable, including in a language that the indigenous peoples will fully understand. The format in which information is distributed should take into account the oral traditions of indigenous peoples and their languages.

5. Procedures / mechanisms
• Mechanisms and procedures should be established to verify free, prior and informed consent as described above, inter alia, mechanisms of oversight and redress, including the creation of national ones.
• As a core principle of free, prior and informed consent, all sides in a FPIC process must have equal opportunity to debate any proposed agreement/development/project. 'Equal opportunity' should be understood to mean equal access to financial, human and material resources in order for communities to fully and meaningfully debate in indigenous language(s), as appropriate, or through any other agreed means on any agreement or project that will have or may have an impact, whether positive or negative, on their development as distinct peoples or an impact on their rights to their territories and/or natural resources.
• Free, prior and informed consent could be strengthened by establishing procedures to challenge and to independently review these processes.
• Determination that the elements of free, prior and informed consent have not been respected may lead to the revocation of consent given.

It is recommended that all actors concerned, including private enterprise, pay due attention to these elements.

[42] Extract from United Nations Permanent Forum on Indigenous Issues, Report of the International Workshop on Methodologies regarding Free, Prior and Informed Consent and Indigenous Peoples (New York, 17–19 January 2005), UN Doc E/C.19/2005/3 (2005), paras 46–49. At http://www.un.org/esa/socdev/unpfii/en/workshopFPIC.html
Also, in Aboriginal Land Rights (Northern Territory) Amendment (Economic Empowerment) Bill 2021 submission 38, pp 9-10.

Appendix 3 (1 of 7)
Extracts of Chapter 4 of the 2021- 2022 Beetaloo Basin inquiry
Testimony to the rejection of fracking and concerns about consultation processes

The Beetaloo Basin Senate Inquiry interim report states ,

Strong opposition to oil and gas activities on country

4.3
First, the committee heard that oil and gas exploration and production in onshore NT is a highly contentious issue, including in the Beetaloo, where there is strong and widespread opposition to the shale gas industry.[1]

4.4
Mr Johnny Wilson, Chair of the Nurrdalinji Native Title Aboriginal Corporation highlighted that Traditional Owners in and around the Beetaloo do not support fracking in the region and consider that their voices have been lost in the process:
...a lot of money is being put into the Beetaloo Basin to get this program started, to get all this work started. Why? This is our country. We don't want it. We don't want any of this. We are very concerned because our country is going downhill. Our voices are not heard. We have grave concerns for our country, and our water especially. We have to live here. We have to live on our country. Our water is sacred to us. There are our sacred sites and our cultural heritage—everything. We are connected to our land. It is very disturbing that our government will not listen to us.[2]

4.5
The committee notes that Mr Wilson lives in close proximity to a fracking well in the Beetaloo basin.

4.6
Other Traditional Owners agreed that water is a critical concern on Country, not just for drinking purposes but also for cultural and spiritual reasons. Ms Nancy McDinny, a Traditional Owner from Borroloola stated, for example:
Fracking is not good for our country, not good for our water... Our water was here from ancestors. Thousands and thousands of years ago people were living with this water, living on clean country... We've got to protect it and protect the water. You know, it's not good for the fracking to come down, we don't want fracking. We're arguing, talking and meeting every year, every year. People still want to come... We don't want any fracking, no mining in our country. We're gonna protect our country. Listen to the elders, know, how our land is so important to us.[3]

4.7
Similarly, Ms Joni Wilson, a Yanyuwa Gawara woman from Borroloola and also a Gawara woman through her father's line, explained:
Country is important to me because it's my life; it is a part of my body, my soul and my spirit. It provides food, medicine, water and healing. It's important for my cultural connection to the land and my language, and the identity of who I am through my skin name. My skin determines how I fit into my clan. Country is important because I live off the land, like my ancestors did. It's my responsibility as a jungai, protector for country, as a traditional owner, to protect it with my people for the next generation to come. I want my kids to be able to practise, teach and learn on country, like I did and like my people did before me. Without our land and water, we are nothing and we are nobody.4

Appendix 3 (2 of 7)
Extracts of Chapter 4 of the 2021- 2022 Beetaloo Basin inquiry
Testimony to the rejection of fracking and concerns about consultation processes

4.8
Larrakia Traditional Owner, Ms June Mills, expressed her anger at having to fight to protect her family's country:
…why do we, the most disadvantaged people in the country, underprivileged, impoverished, lacking in all sorts of resources, why do we have to rally up and fight this assault on our environment, on our peoples against such an unnecessary evil? Which is [what] the government is hell bent on rolling out all across the country. It's disgusting. It's filthy. It's the most unnecessary industry that they are insisting and forcing upon us. It should not be allowed.5

4.9
Mr Wilson also expressed his pain and frustration with government for not understanding the importance of Country to First Nations people:
We are crying for our country. This is our living. This is our life. This is left here by our Elders. My grandfather left my country here for my family to live, so that we may start off something of our own for our children—our business—so they could have something in the future for themselves. But how is this all possible if we have all these wells around our country?6

4.10
Mr Yingiya Mark Guyula, a Yolŋu Elder from North East Arnhem Land and MLA in the NT Legislative Assembly, pointed out that there are cultural connections among First Nations people, which create responsibilities beyond geographically delineated areas to care for Country:
I want to voice concerns about oil and gas exploration in the Beetaloo Basin. The waters of this region are also considered significant through Yolŋu culture. Our song lines and our ceremonial songs sing about the underwater channels that connect the Beetaloo Basin country to Yolŋu country. We have great concerns for Fracking in this region and the spiritual, cultural and environmental impact it may have for our people. These connections through our song lines create an onus of responsibility to care for that country.7

4.11
First Nations people emphasised to the committee that they come together to support each other on the issue of fracking in the Beetaloo, even when this is not their land. Mr Gadrian Hoosan, whose family is part of the McArthur Basin, said, for example:
We all support each other…We all get together and we all talk about all the issues together… I know for a fact that lot of those [Traditional Owners] around the Beetaloo area don't agree to fracking.8

4.12
The committee notes that significant support for the First Nations people was expressed in well over a thousand form letter submissions, for example:
Aboriginal communities have been fiercely opposing fracking on their land for years. It is time we listened to their concerns. These are the people who will be directly affected by this proposal and to ignore their concerns is not the Australian way.9

The First Nations people with a genuine spiritual connection to the land and what is under it do not want fracking.10

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4.13
The committee notes the deep cultural and spiritual links First Nations' witnesses provided in their evidence. In particular, their telling of the song lines, or in Yanyuwa known as 'Kujika', that travel across the Gulf country, north to Arnhem Land and south across the Barkly region, which links families and Country, strongly together.11

...
...

4.16
As indicated earlier in this chapter, a key concern for First Nations people is that their strident and continued opposition to hydraulic fracturing in the Beetaloo is being disregarded and their voices are not heard.[14] Mr Guyula reiterated that concern:
As a Member of the Northern Territory Legislative Assembly, I have spoken to many elders and leaders from the Beetaloo Basin who have expressed great heartache about the oil and gas exploration on their country. It is these elders and leaders who must now be consulted in relation to the future of production on their country.[15]

4.17
In an open letter to the NT Parliament, Traditional Owners throughout the NT stated that they have not been consulted about hydraulic fracturing on Country:
These gas corporations lack any respect for us as Traditional Owners. They have failed to follow proper process in consultation with us, failed to acquire consent, failed to provide transparency in their dealings with us, and have systematically excluded our voices from the decision-making process for activities on our Country.[16]

4.18
Many submitters and witnesses to the inquiry agreed that the consultation processes to date have not included all Traditional Owners and community members who should be consulted, and have therefore been inadequate. For instance, Mr Guyula stated:
The people down there in the Beetaloo Basin and around the western part of the Gulf of Carpentaria are concerned very much that we haven't been thoroughly, properly consulted. People haven't been consulted. I have in the past three years met a lot of [Registered Traditional Owners] from the Beetaloo Basin region who are very concerned about fracking on their country and do not want it. That is the clear message that they are saying with their voice, and someone needs to listen to their voice.[17]

4.19
Ms Wilson was one such person and she told the committee that, in addition, her family did not receive any information regarding what was proposed for their Country:
We have not been given any information on this fracking thing. We have not given anybody permission for fracking. No one has come to us and asked us: 'Here's the paper. We want to do this on our land. No one has done this to us. If they did do it to my grandparents or great grandparents, they didn't know what the bloody hell they were signing. They didn't understand. If someone in plain English would say, 'Hey, here's a piece of paper to frack or to destroy your country,' I don't think my grandparents would have done anything. So, no, we didn't give permission. We didn't get any information—none of that. We just read it from news or Facebook. We get information from there. We never have people come to our place and give us information—nothing. No.[18]

4.20
The Australian Youth Climate Coalition submitted that there has generally been an absence of Free, Prior and Informed Consent,[19] a point emphasised by Nurrdalinji Native Title Aboriginal Corporation in its submission:

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At present, Origin Energy is fracking our country under exploration permits granted some 15 years ago to other companies, and later assigned to Origin Energy. Our people did not understand what fracking was at the time they were advised to enter into agreements consenting to the grant of those exploration permits. How could they? The exploitation of unconventional gas reserves using extensive fracking was new and barely understood in Australia at that time. Many of our people are now worried about the risks of fracking.[20]
The consultation process

4.21
The committee heard also that there are significant concerns regarding the current consultation process. Mr Guyula, for example, noted that consultations are often in the nature of a briefing only, and do not actually seek input from Traditional Owners:
…when the consultations first came out right up through Gapuwiyak here, I was there, and then we went to Yirrkala, and the consultations were done there. But people weren't happy, because it all seemed like just briefing, and then it was: 'What's next? What's it up to? When's our turn to have a say about that?'… We are not happy about what happened in the consultation… We've said, 'No, no, we need to have a proper consultation.' We believe it should happen again. Let the people have the final say or have a good discussion with the government.[21]

4.22
Mr Guyula suggested that a better process would be for activity proponents to speak directly with Traditional Owners on Country:
Proper consultation would look like a kind of diplomatic talk. If you want to explore and create mining on land or fracking on country, there could be some organisations in between those people. Rather than talking to organisations that are advisory groups, we would like to see the government and the mining companies—the people who have business to do—come straight onto and talk to the actual [Traditional Owners]. It is the voices of the [Traditional Owners] that need to be heard by different companies.[22]

4.23 Mr Nicholas Fitzpatrick, a Yanyuwa and Garawa man, agreed that 'it would definitely help better if they came out on the ground and spoke with people all together'.[23]

4.24 A Traditional Owner at Minyerri, Ms May August, told the committee that she had twice travelled to Sydney to invite the CEO of Origin Energy to come on Country and discuss hydraulic fracturing in the region. Despite these personal requests 'they never showed up'.[24]

4.25
Similarly, Ms Rikki Tanika Dank, a Traditional Owner for Balbrini and Mukumpala, and her husband, Dr Sanjit Paul, gave evidence that they had attempted to obtain information from Empire Energy for some years and although the company has recently attempted to speak with her family, they now consider any communications meaningless:
[Two months ago Empire came forward and said] 'We hear that you have an issue and we'd like to talk to you'… Our initial assessment of their proposal was that it was just a token gesture and was insincere because, at that stage, one well had already been sunk. So this wasn't even an eleventh-hour appeal to our case; the clock had struck had struck midnight a long time ago and the chariot had already turned into a pumpkin.[25]

4.26
The committee notes that the Pepper Inquiry (see Chapter 1) recommended that the cultural impacts associated with the development of any onshore shale gas industry, including in the Beetaloo, must be fully explained prior to the development of that industry. Further, First Nations people must be involved in the design and implementation of any such plan.[26]

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Consultations by the land council

4.27
The committee heard allegations that the Northern Land Council (NLC) has not been performing its statutory duties, for example, as required under the Land Rights Act.[27]

4.28
Ms Dank, for instance, submitted that, despite the devastating impact of Empire Energy's petroleum activities on Country, the right people in her family were not approached for consultation purposes:
…when things concern our country, people don't approach one person; they need to approach and have a meeting containing the senior ngimaringkis, which is both my grandmothers, Katie Baker and Peggy Mawson, and the senior djungai, the senior law person, which is my mother. At no time was my mother or Katie Baker present at…meetings.[28]

4.29
Mr Fitzpatrick supported Ms Dank, telling the committee:
What's happening out there in that area where Rikki is definitely hasn't been done properly in the consultation. I can't say too much for that area, but I've got experience from my area. The NLC had meetings recently. They called it 'man meetings'. I went to this meeting. They only talked about a 'man' part of our law for about two minutes, and then everything else was about fracking. It was about giving the man power over the woman. True God. I said: 'This is not even a man's meeting. This is a meeting about fracking. This is about getting the man on board with fracking.' They were like: 'Oh no, no, no. That's not what's happening. This is a man meeting'—talking to someone who understands their cultural side very deeply, and I understand what we can and can't talk about. And they were just talking about fracking.[29]

4.30
Similarly, the Nurrdalinji Native Title Aboriginal Corporation contended that the NLC and Origin Energy have not properly communicated or consulted with the Native Title holders from 11 determinations of Native Title across the Beetaloo:
Origin Energy and NLC are not consulting with all people whose interests may be affected by those risks. Our people have raised these and other concerns with the NLC and Origin Energy on numerous occasions over recent years. Origin Energy hides behind the NLC. The NLC first ignored our concerns, and more recently has behaved disrespectfully and aggressively towards us. Many of us feel trapped by the…representation and agency arrangements, and we need urgent help to change those arrangements so that we are given respect as native title holders, and so that we can start to make decisions about our country and our future with proper advice from faithful representatives and agents.[30]

4.31
Mr Wilson alleged that the NLC has been selectively and improperly consulting with Traditional Owners, which is causing great divisions within communities:
…the NLC are hand-picking a few traditional owners who they know they can manipulate to give them what they want so they can have the authorisation to give to the mining companies and say: 'Here; we've got authorisation. Go ahead and do it. Go do what you have to do. We've looked after the other side, the traditional owners.' We all know now that that's been happening with the NLC. They have been hand-picking people—elders—and making them sign off without proper consultation with the whole family, with the whole clan. You've got families. You've got one family here and one family there. There have been arguments because one family or somebody in one family has signed over these agreements without the knowledge of the whole family, of the whole clan, of the whole traditional owners group, and that is very upsetting. That is where all the arguments are coming in, and it's destroying Aboriginal people.[31]

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4.32
Ms Dank submitted that, in her case, the NLC has actively attempted to prevent her family's voice from being heard.[32] She attributed their 'frustrating' relationship to her family's reputation as 'trouble makers':
My family have been, historically, and it probably all stems back to 1999, when we were given Balbarini back. A few months after we were handed back Balbarini, the NLC came to us with a pastoral company. The pastoral company wanted to lease our place, and it was a 99-year lease, and we refused. We've refused certain things like that ever since. So we've become known as the 'no' people, the troublemakers.[33]

4.33
Dr Paul described their current situation as dire, with the Australian and NT Governments unwilling to intervene to address the situation:
…it seems like no minister at the federal or Territory level is willing to take our concerns seriously and that all we're going to get is stock letters from elected officials. No-one is going to hold the NLC responsible, and therefore no-one is going to hold Empire [Energy] responsible for the actions they follow.
All the people and bodies who are supposed to represent us have refused to execute their responsibilities and have thus failed us. This is why we appear before you today—to ask that all members of this inquiry take the responsibilities seriously and act with a clear conscience. We want you to consider this: if this were your country and your home for the last 60,000 years, what would you do to protect it? Our social status, political affiliations, access to legal counsel and economic status should not affect our right to justice.[34]

4.34
Mr Guyula argued that there is a role for representative bodies—like the NLC—in consultations however, he emphasised that the legitimacy of these bodies depends upon their acceptance by Traditional Owners: 'we can use organisations like the Northern Land Council or other Indigenous organisations as long as the people out there are satisfied'.[35]

4.65. The committee notes … that, while Empire Energy's Beetaloo project is underway, in some respects the project is not so advanced. For instance, the company has not yet completed its environmental, social and governance policy, nor was it able or willing to provide the committee with a copy of its sustainability road map.[67]

4.66
The committee acknowledges the deep and enduring connection that First Nations people have with their Country and that any unwanted interference can have significant and ongoing cultural and spiritual consequences. The committee recognises that petroleum activities in the Beetaloo have the potential to create such interference.

4.67
The committee heard that, over a considerable period of time, some First Nations people have clearly expressed their opposition to fracking in the Beetaloo. However, the oil and gas industry and governments have not heard, or have chosen to prioritise, petroleum exploration and production.

4.68
The committee notes that activity proponents often conduct their consultation processes through representative bodies—such as prescribed body corporates or land councils—and acknowledges that these representative bodies do not necessarily represent or consult all Traditional Owners.
4.69
The committee also heard that, while the NLC has consulted in relation to proposals for shale gas exploration, a significant First Nations cohort does not consider that it has been properly consulted.

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4.70
For example, the committee is deeply concerned that Traditional Owners—such as Ms Dank and her clan and the Nurrdalinji Aboriginal Native Title Corporation—whose Country is integral to the Strategic Plan and the subject of the Instrument, reject that consent has been provided and those in a position to investigate the lack of consent have declined to do.

4.71

Based on the totality of information received, the committee is not convinced that all Traditional Owners and Native Title holders in the Beetaloo have provided Free, Prior and Informed Consent to petroleum activities on Country. The committee considers that there is a need for further action to ensure that consultation is conducted inclusively and consent is only given in a free and informed manner. It is incumbent on government to institute the regulatory requirements to achieve this outcome.

4.72
A review of the regulatory processes under relevant Commonwealth and territory laws should be conducted, using a collaborative approach with all stakeholders and with specific consideration of the need to conduct properly resourced on Country consultations, including the provision of translators, in order to comply with and respect First Nations laws.

4.73
This is consistent with the Pepper Inquiry *which concluded that an 'onshore shale gas industry in the NT can be appropriately managed by [among other things] reforming the current regulatory framework governing onshore shale gas development in the NT to strengthen transparency and accountability of all decision-making'.*[68] [43]

[43] 2022 https://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Environment_and_Communications/BeetalooBasin/Interim_Report/section?id=committees%2freportsen%2f024744%2f77655

From: james.ingram1992@gmail.com
To: OriginPetroleum DEPWS
Cc: Minister Moss
Subject: Submission: Origin Energy's EMP
Date: Monday, 15 August 2022 9:16:36 PM

To Hon Environment Minister Lauren Moss and Northern Territory Department of Environment, Parks and Water Security:

I am a doctor and public health student living and working in Darwin. I am committed to providing top quality healthcare to my patients, which involves advocating for issues that impact on health, or threaten to exacerbate health inequalities, such as climate change and water contamination.

I am writing to you to share my concerns regarding Origin Energy's Amungee NW Delineation EMP. I have some serious concerns about this EMP, and the potential harm this project will cause to local waterways, the health of local populations, as well as threatening cultural heritage, biodiversity and our climate.

One of the greatest issues I have with this project is the way in which Origin are attempting to produce and sell fracked gas under the guise of 'exploration'. By stretching the exploration period to the proposed 730 days and stealthily selling this gas without undergoing due process required to gain a production license. Allowing this to go ahead would contravene the government's commitment to water allocation plans and crucial Pepper inquiry recommendations, thus severely undermining the integrity of our regulatory system.

Furthermore, the half a million tonnes of Scope 1 emissions would need to be offset, and jeopardise our commitment to a net zero target. The federal government has stated they will no longer step in to assist the NT in offsetting it's emissions, and these emissions will hurt both the climate and NT's emissions targets.

Every tonne of CO2 counts, and every tonne of CO2 kept in the ground means lives saved.

I call on you as Minister to please consider doing two things:

1. Reject Origin's EMP and their attempts to sell fracked gas without a production license.
2. Refer the entire EMP to the EPA for a full Environmental Impact Statement.

Additionally, please consider the impacts of this project (and future similar projects) on the health of the local ecosystem, human populations, cultural heritage, as well as the indirect health impacts caused through climate change, the most severe of which may not be seen for some years to come.

I will follow the progress of this submission process closely.

Thank you for taking my concerns into account.

Kind regards,
Dr James Ingram
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