Middle Arm Industrial Precinct Submission 11



Supporting science-based policy to prevent dangerous climate change enabling sustainable development

Committee Secretary
Senate Standing Committees on Environment and Communications
PO Box 6100
Parliament House
Canberra ACT 2600

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Climate Analytics submission to the Middle Arm Industrial Precinct Inquiry

Dear Committee,

Climate Analytics welcomes the opportunity to provide a submission to the Middle Arm Industrial Precinct Inquiry (the Inquiry).

The exploitation of the Beetaloo Basin is deeply intertwined with the proposed development of the Middle Arm industrial precinct in Darwin. The gas supply from the sub-Basin is required for the operation of the precinct, and the precinct would generate local demand for the gas from the sub-Basin.

Hence, Climate Analytics would like to submit its report "Emissions impossible – Unpacking CSIRO GISERA Beetaloo and Middle Arm fossil Gas emissions estimates" to the Inquiry.

This report provides an independent evaluation of the CSIRO and GISERA assessments of the potential greenhouse gas emissions that would result from the exploitation of the Beetaloo fossil shale gas reserves. This is in light of the Scientific Inquiry into Hydraulic Fracturing of Onshore Unconventional Reservoirs in the Northern Territory, specifically Recommendation 9.8, which states:

"That the NT and Australian governments seek to ensure that there is no net increase in the lifecycle GHG emissions emitted in Australia from any onshore shale gas produced in the NT."

The Northern Territory Government has stated it has completed this action point. The GISERA report provided the basis for this statement.

We find the CSIRO GISERA report has:

- Underestimated emissions for the Beetaloo project and its associated LNG production facilities
 across the board, across all areas of the proposed project, from methane leakage on extraction to
 liquefaction emissions intensity. We estimate these emissions would add up to 11% of Australia's
 2021 emissions, and that:
 - The methane loss rate is underestimated by at least 56%.
 - The upstream emissions intensity is underestimated by 44% to 110%.
 - LNG production emissions underestimated by 57% to 89%.
- Underestimated annual onshore emissions by up to 84% from the scenarios used.

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- Underestimated the cumulative total emissions over 25 years, including those occurring overseas, by close to 1.5 times Australia's 2021 emissions.
- Focused on using offsets rather than real mitigation measures.
 - Failed to account for any of the scientific findings questioning the efficacy of using offsets for fossil CO₂ emissions.
 - Putting the emphasis on offsets, despite findings that offsets are not a viable alternative to cutting emissions.
- Overestimated the supply of offsets in Australia, by:
 - Using liberal assumptions for all the offsetting methods under the Emissions Reduction Fund.
 - Assuming a potential supply of offsets sufficient to offset Australia's 2021 emissions in their entirety.
- Assumed up to 42% of offsets would need to be sourced internationally, which is not possible under the recent Safeguard Mechanism regulations.
- Significantly exaggerated the viability of blue hydrogen and carbon, capture and storage, which would require injecting CO₂ into the Timor L'Este seabed to contain it for thousands of years.

Tamboran's Middle Arm emissions

Using updated emission estimates, we find that Tamboran Resources' plan to develop a 6.6 million tonnes per annum LNG plant at the Australian taxpayer funded Middle Arm gas precinct in the Northern Territory this decade would generate emissions equivalent to 2-3% of Australia's 2021 emissions. This figure translates to adding 6 to 8 million new cars to Australia's roads.

- Tamboran Resources' announced plan to expand capacity to 20 million tonnes per annum, would generate emissions equivalent to 10-13% of Australia's 2021 emissions, equivalent to having 30-38 million additional cars on Australia's roads.
 - Cumulatively, over the 25-years life of the project and including exported emissions, Tamboran Resources' plans to frack the Beetaloo and produce LNG would generate between 0.8 to 3.2 GtCO2e, when the IPCC and the IEA make it clear that existing fossil fuel infrastructure set us on track to exceed the remaining 1.5°C compatible carbon budget.
- The emissions from Tamboran's plans are 8-51% of Australia's cumulative emissions from 2024 to 2050, if Australia's emissions were to decline consistently to become net-zero by 2050.

Climate Analytics remains available to further discuss these findings and would welcome the opportunity to speak at the upcoming hearings.

Estelle Roux

Director Australia Pacific Office, Climate Analytics