



PUBLIC DISCLOSURE STATEMENT

COOPER ENERGY LIMITED

**PRODUCT CERTIFICATION (NATURAL GAS)
FY2019-20**

Australian Government
Climate Active
Public Disclosure Statement



REPORTING PERIOD: 1 July 2019 – 30 June 2020

Declaration

To the best of my knowledge, the information provided in this Public Disclosure Statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.

Signature

A handwritten signature in blue ink that reads "David P. Maxwell".

Date: 14 December 2021

Name of Signatory: David Maxwell

Position of Signatory Managing Director



Australian Government
Department of Industry, Science,
Energy and Resources

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Version number February 2021

1. CARBON NEUTRAL INFORMATION

Description of certification

This certification relates to Cooper Energy Limited's ABN 93 096 170 295 natural gas product. In particular, the downstream (from Cooper Energy) processing, transportation and distribution, and combustion of natural gas produced from Cooper Energy's operations.

Carbon neutral natural gas will be offered as an opt-in product.

The functional unit is a gigajoule (GJ) of natural gas sold by Cooper Energy in south-east Australia, with emissions expressed as tonnes of CO₂-e per GJ of natural gas.

The emissions inventory within this public disclosure statement covers the period 1 July 2019 to 30 June 2020. It has been developed in accordance with the Climate Active Carbon Neutral Standard for Products and Services.

Organisation description

Cooper Energy Limited (Cooper Energy) is an ASX listed (ASX: COE) oil and gas exploration and production company.

In the 2019-20 financial year, Cooper Energy delivered 8.3 petajoules (PJ) of gas and 200,000 barrels (bbls) of oil and condensate to the south-eastern Australian domestic market.

Cooper Energy's core business is gas exploration and production operations centred around two hubs: one in the offshore Otway Basin in Western Victoria and the other in the offshore Gippsland Basin in Eastern Victoria. The company also has a minority non-operated interest in oil projects on the Western flank of the onshore Cooper Basin in South Australia and minority interests in various exploration licences onshore Victoria and onshore south-eastern South Australia.

In the offshore Otway Basin, the company holds a 50% interest. It is the operator of activities covering six licences: two production licences over the Casino Henry Netherby (CHN) gas fields, two retention licences, and two exploration licences. Cooper Energy also has a non-operated 10% interest in a production licence (the Minerva gas field), which has now ceased production, and a 100% interest in the VIC/P75 exploration licence.

"Net Zero 2020

Cooper Energy is a values-based organisation. We strive to provide attractive returns for our shareholders and good commercial outcomes for customers while creating a legacy for future generations.

We share in the dual challenge of delivering energy to support the community's health and prosperity, while protecting the climate.

In becoming carbon neutral and offering opt-in carbon neutral gas, we can support our customers in their decarbonisation journey and align with their sustainability strategies.

It is the right thing for our business and the right thing for the environment and communities in which we operate."

In the Gippsland Basin, Cooper Energy has a 100% operating interest in the Sole gas field. It also holds 100% of the Patricia Baleen and BMG fields and associated infrastructure (both are currently in a non-production phase) and the Manta gas and liquids resource, and several exploration permits.

Cooper Energy's head office is in Adelaide, where the company has approximately 60 staff and contract staff, at 70 Franklin Street, Adelaide, South Australia 5000. It also has an office in Perth with about 40 staff and contract staff, in Tower 2, Brookfield Place, 123 St Georges Terrace, Perth WA 6000. During the reporting period, less than ten staff worked at the Athena Gas Plant construction site.

'Cradle to gate' emissions from the Cooper Energy Organisation are now certified carbon neutral; the relevant Public Disclosure Statement can be found <https://www.climateactive.org.au/buy-climate-active/certified-members/cooper-energy>.

After natural gas is sold by Cooper Energy, also called 'downstream' of Cooper Energy, the natural gas:

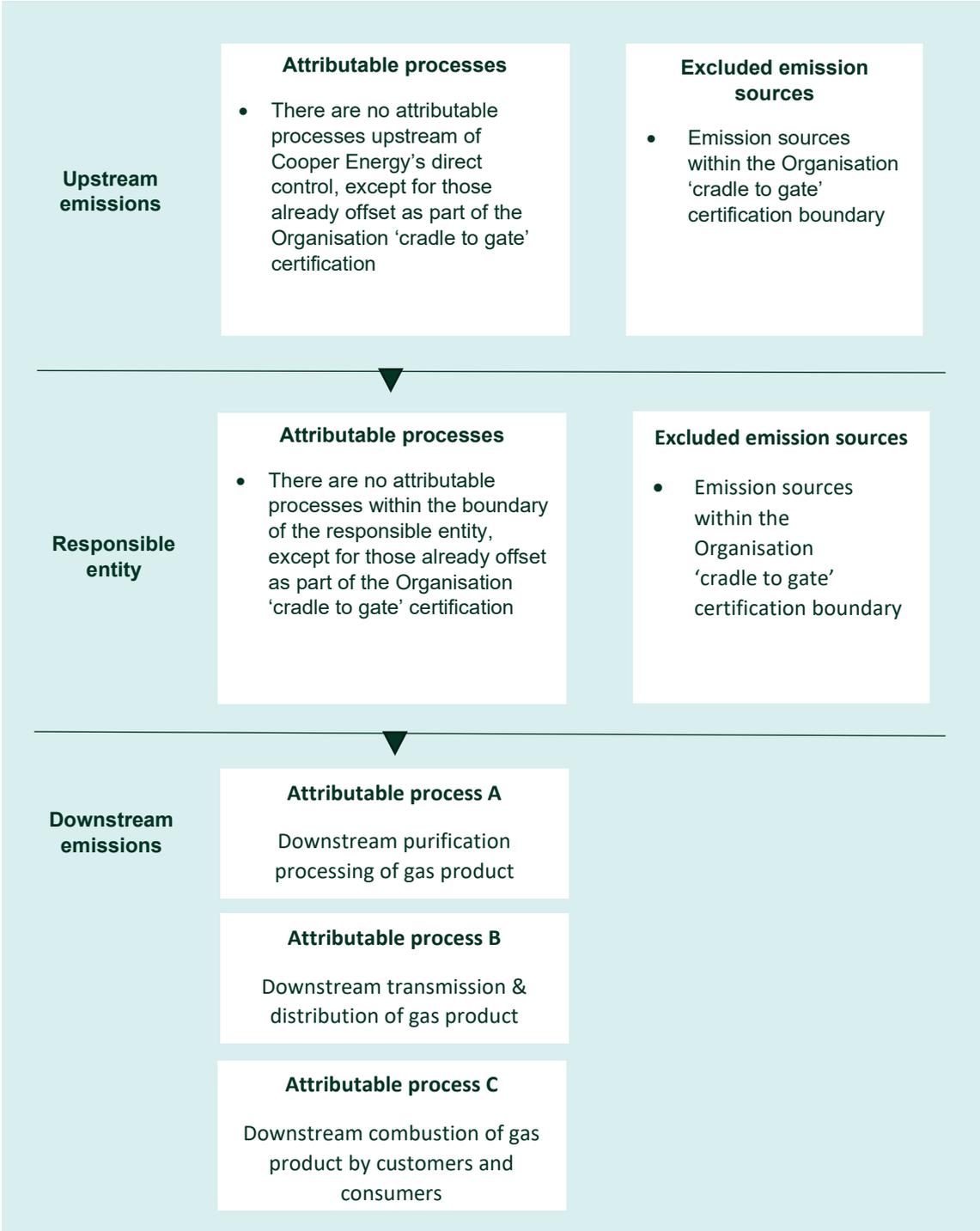
- A. may be further purified in a customer gas treatment plant. These plants may combust up to 5% of the gas Cooper Energy provides to generate electricity and run purification processes. The emissions source attributable to these operations is the combustion of natural gas, emitting greenhouse gases: carbon dioxide (CO₂) and minor quantities of methane (CH₄) and nitrous oxide (N₂O). These emissions are estimated using the Australian National Greenhouse and Energy Reporting System (NGERS) Method 1 emissions factors;
- B. will then be transmitted by high pressure (defined in the NGER system as over 1,050 kPa) pipelines to power stations and large industrial users and may be distributed in low pressure pipelines to small business and household consumers in south-eastern Australia. The emissions source attributable to these pipelines is the leakage of greenhouse gases: methane and minor quantities of carbon dioxide. These fugitive emissions are estimated using the National Greenhouse Accounts (NGA) factors for transmission and distribution pipelines, weighed by Cooper Energy's estimate of the proportion of gas use by customer type by state;
- C. will then be combusted by the end consumer of the gas, be it a power station, large industrial, small business or household consumer. The emissions source attributable to these operations is the combustion of natural gas, emitting greenhouse gases: carbon dioxide (CO₂) and minor quantities of methane (CH₄) and nitrous oxide (N₂O). These emissions are estimated using the Australian National Greenhouse and Energy Reporting System (NGERS) Method 1 emissions factors.

These 'gate to grave' emissions are the subject of this opt-in Product certification.

The reporting boundaries for Organisation and Product are consistent with other natural gas, LPG and electricity Product certifications, discoverable from their Public Disclosure Statements. We also anticipate that the reporting boundaries will be comparable with other similar operations or entities reporting under NGER due to the legislated reporting requirements for Scope 1 and Scope 2 emissions.

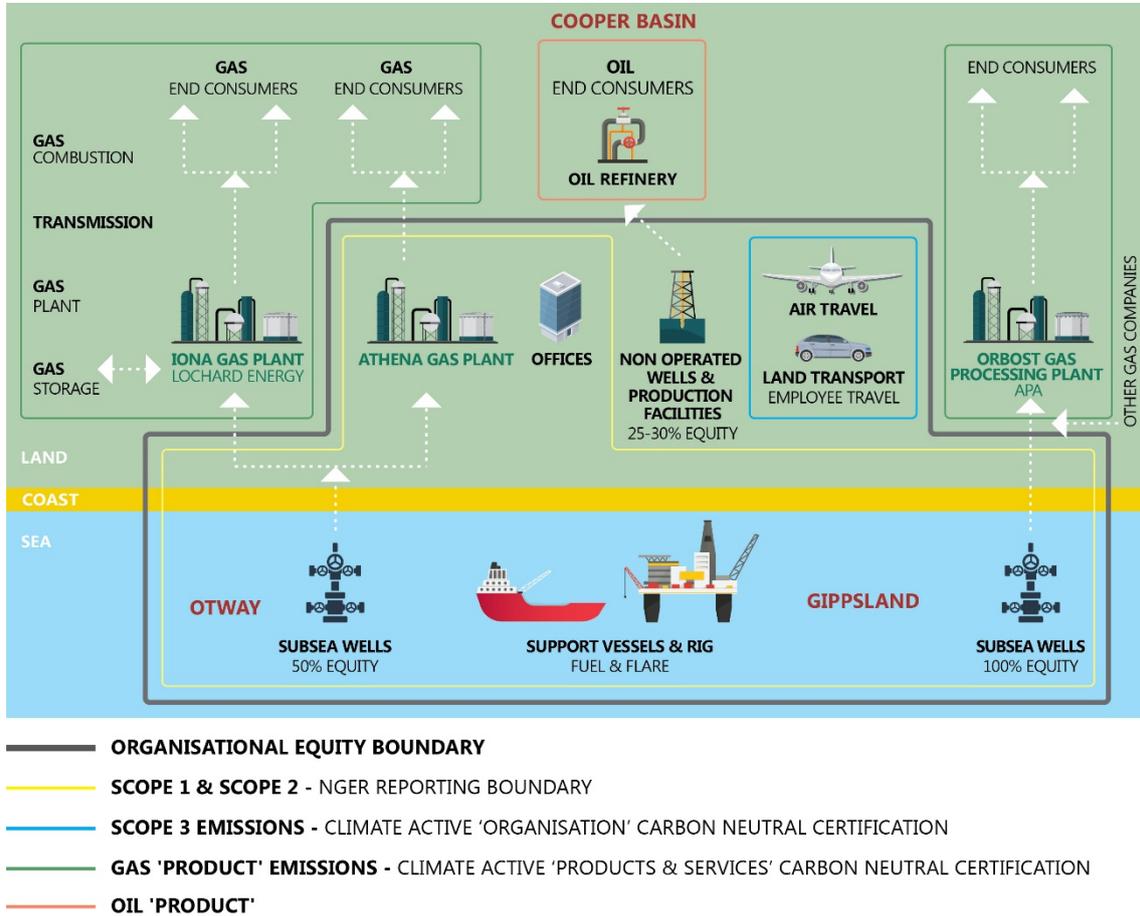
Product/service process diagram

As outlined in the following diagram, the product process is 'gate to grave', complementing Cooper Energy's Organisation Certification, which is 'cradle to gate'.



2. EMISSION BOUNDARY

Diagram of the certification boundary



The natural gas Product reporting boundary is all emissions sources resulting from the natural gas (but not oil) product downstream of the Organisation boundary. In summary,

- the Organisation boundary is 'cradle to gate',
- the Product boundary is 'gate to grave'.

Note 1: Organisation Certification Sources, Excluded from this Product Certification

<u>Quantified</u>	<u>Non-quantified</u>	<u>Excluded</u>
<p>Scope 1 emissions:</p> <ul style="list-style-type: none"> Fuel Consumed Fugitive Emissions Non-Operated Assets Scope 1 Oil Consumed <p>Scope 2 emissions:</p> <ul style="list-style-type: none"> Electricity Purchased from Grid <ul style="list-style-type: none"> Gas plant - processing raw gas to create pipeline quality gas Non-Operated Assets Scope 2 Offices <p>Scope 3 emissions:</p> <ul style="list-style-type: none"> Business travel - flights, taxis, hire cars & hotels (international/domestic) Capital Goods – oil & gas infrastructure Capital Goods – plant Employee commuting ICT services & equipment within office, external data centre usage Line losses from transmission to site of electricity and natural gas Office fitout Office paper consumption Postage and outbound courier services Refrigerants (from air conditioning units) Professional services on sites Purchased goods & services – office equipment & supplies units) Rented premises - fuel, energy and water, own (tenant) use plus share of common areas Upstream fuel consumed Waste from offices Water used 	<p>Scope 3 emissions:</p> <ul style="list-style-type: none"> Waste from construction Waste from operations Printing carried out externally Office cleaning supplies External telecommunications (Telstra, etc.) Inbound courier services Professional services carried out externally 	<p>Scope 3 emissions:</p> <ul style="list-style-type: none"> Food consumed by employees Other purchased goods & services with no financial record Downstream processing of products by customers Downstream, transmission & distribution of products by customers Downstream combustion of products by customers and consumers

Attributable non-quantified sources

There are no attributable emission sources that are non-quantified.

Data management plan

A data management plan is not required as there are no non-quantified emission sources.

Excluded sources (within certification boundary)

Sources within the separate Organisation Certification (cradle to gate) are excluded from this downstream Product Certification (gate to grave).

No sources within the Product Certification boundary are listed as excluded.

Non attributable sources (outside certification boundary)

Two sources are listed as non-attributable, as shown in the diagram above and in Appendix 1 below.

3. EMISSIONS SUMMARY

Emissions reduction strategy

Cooper Energy's emissions reduction efforts to date have focused on areas within Cooper Energy's 'cradle to gate' control. Areas include eliminating natural gas well testing and flaring where possible via greater adoption of methods such as downhole evaluation and formation testing while drilling. There has also been a focus on reducing operational emissions relating to diesel use by minimising the number of long-distance rig moves and combining shore base facilities within the operating region, which effectively reduces vessel transit time and lowers emissions.

Cooper Energy is bringing the Athena Gas Plant online later in 2021 to process gas from the offshore Casino Henry gas fields. Once online, the Athena Gas Plant will be a new contributor to the company's emissions profile. Hence, following commissioning, a more detailed emissions reduction strategy will be developed to identify, cost, and implement economically viable emissions reduction opportunities.

This product certification provides a means for Cooper Energy to support customers with their sustainability strategies and emissions reduction targets.

Emissions over time

FY20 represents Cooper Energy's base year. Emissions over time will be shown in subsequent years.

Table 1 – Not Required for Baseline Year

Emissions reduction actions

FY20 represents Cooper Energy's base year. Emissions over time will be shown in subsequent years.

Functional units

Table 2

	Number of functional units
<i>a) Number of functional units sold this period, OR</i>	0
<i>b) Number of functional units to be forward offset demonstrating commitment to carbon neutrality (true-up to be conducted at the end of the reporting period)</i>	-

Emissions summary (inventory)

Table 3 summarises Cooper Energy's emissions inventory by source.

Table 3

Emission source category	tonnes CO ₂ -e
Downstream purification processing of gas product by customers	41,195
Downstream, transmission & distribution of gas product by customers	76,332
Downstream combustion of gas product by customers and consumers	881,613
1. Total inventory emissions – Baseline Year	999,140
a. Number of functional units represented by the inventory emissions	18,067,487 GJ
2. Emissions per functional unit (based on the number of functional units represented by the inventory) <i>Total tCO₂-e divided by the number of functional units in 1a.</i>	0.0553 tCO₂e/GJ
3. Carbon footprint <i>(Emissions per functional unit (2)* number of functional units (a or b from table 2))</i>	0
Total Net Emissions	0

Uplift factors

No uplift factor has been applied.

Table 4

Reason for uplift factor	tonnes CO ₂ -e
No uplift factors have been applied	0
Total uplift factors	0
Total to offset (Carbon footprint + total uplift factors)	0

Carbon neutral products

The entire upstream 'cradle to gate' operation and production of natural gas within Cooper Energy's Organisational Boundary is certified carbon neutral under a Climate Active Organisation Certification. We are not aware of any other certified carbon neutral source relevant to this product.

4. CARBON OFFSETS

Offsets strategy

Table 5

Offset purchasing strategy:	
In arrears / Forward purchasing: To be advised with first report after customer opt in	
1. Total offsets previously forward purchased and banked for this report	0
2. Total emissions liability to offset for this report	0
3. Net offset balance for this reporting period	0
4. Total offsets to be forward purchased to offset the next reporting period	To be advised with first report after customer opt in
5. Total offsets required for this report	0

Co-benefits

Cooper Energy is a values driven organisation and seeks to maximise the environmental and social co-benefits of our emission offsetting. Our current strategy is to invest in environmental projects to offset our emissions while providing meaningful co-benefits to landholders, biodiversity and water quality. We seek to locate our offset projects in the areas we undertake our operational activities.

For Cooper Energy's Organisation certification, one hundred per cent of the offsets retired for this 2019-20 baseline year are Australian Carbon Credit Units (ACCUs) generated from the Coorong Biodiversity Project in the south-east of South Australia. The project includes reforestation and restoration of over 600 ha of native vegetation and wildlife habitat, including large areas of subcoastal wetlands, Mallee and woodlands on the shores of the Coorong National Park. As well as removing thousands of tonnes of carbon dioxide from the atmosphere, the reforestation project provides important connectivity between the Coorong National Park and the Messent Conservation Park. It restores native vegetation and wildlife habitat for the threatened Mallee fowl and migratory shorebirds; and improving the condition of subcoastal wetlands.

The co-benefits associated with product certification offsets will be determined based on initial uptake and customer alignment, noting that depending on uptake levels, offsets are likely to be required from additional projects outside Cooper Energy's current portfolio.

Offsets summary

Proof of cancellation of offset units

Table 6

Offsets cancelled for Climate Active Carbon Neutral Certification										
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Eligible Quantity (TCO2-e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
Total offsets retired this report and used in this report										
Total offsets retired this report and banked for future reports										
Additional offsets cancelled for purposes other than Climate Active Carbon Neutral certification										
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Eligible Quantity (TCO2-e)	Purpose of cancellation			

Type of offset units	Quantity (used for this reporting period claim)	Percentage of Total
Australian Carbon Credit Units (ACCUs)	0	Not applicable
Certified Emissions Reductions (CERs)	0	Not applicable
Removal Units (RMUs)	0	Not applicable
Verified Emissions Reductions (VERs)	0	Not applicable
Verified Carbon Units (VCUs)	0	Not applicable

5. USE OF TRADE MARK

Table 7

Description where trademark used	Logo type
Cooper Energy Sustainability Report, Annual Report and other public reports	Certified product
Cooper Energy staff email signatures, letter head, business cards and marketing materials	
Cooper Energy website	
Presentations made by Cooper Energy staff	

6. ADDITIONAL INFORMATION

Cooper Energy's 2020 Sustainability Report:

https://www.cooperenergy.com.au/Upload/202011COOP_Productive_02_SustainabilityReport_Updated_Pages.pdf

Cooper Energy Limited website: <https://www.cooperenergy.com.au/>

APPENDIX 1

Non-attributable emissions for products and services

To be deemed attributable an emission must meet two of the five relevance criteria. Non-attributable emissions are detailed below against each of the five criteria.

Table 8

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the emissions resulting from the product, or relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.</i>
Emissions from service maintenance of gas pipelines	No	No	No	No	No
Emissions (such as from electricity or other fuel use) at customer sites other than from gas combustion	No	No	No	No	No

No other sources are listed as non-attributable.

APPENDIX 2

Non-quantified emissions for products/services

Please advise which of the reasons applies to each of your non-quantified emissions. You may add rows if required.

Table 9

Non-quantification test				
Relevant-non-quantified emission sources	<i>Immaterial <1% for individual items and no more than 5% collectively</i>	<i>Quantification is not cost effective relative to the size of the emission but uplift applied.</i>	<i>Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.</i>	<i>Initial emissions non-quantified but repairs and replacements quantified</i>
-	-	-	-	-

No sources are listed as non-quantified.



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