



# **PUBLIC DISCLOSURE STATEMENT**

**ORIGIN ENERGY LIMITED  
NATURAL GAS  
PRODUCT CERTIFICATION  
CY2021 (PROJECTED)**

Australian Government  
**Climate Active**  
**Public Disclosure Statement**



An Australian Government Initiative




NAME OF CERTIFIED ENTITY: Origin Energy Limited

REPORTING PERIOD: [1 January 2021 – 31 December 2021] (Projected)

**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 	Date 2 <sup>nd</sup> December 2020
Name of Signatory Duncan Permezel	
Position of Signatory General Manager, Retail Sales & Marketing	



**Australian Government**  
**Department of Industry, Science,**  
**Energy and Resources**

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# 1. CARBON NEUTRAL INFORMATION

## Description of certification

This Public Disclosure Statement (PDS) is in relation to Origin Energy's application for carbon neutral certification under Climate Active for Natural Gas. This product will be sold as "Green Gas". Carbon neutral gas will be offered as an opt-in product for residential and small business customers, with the option to service other market segments in the future.

Green Gas will allow customers to offset greenhouse gas emissions associated with sourcing, transmission, distribution, retailing and consumption.

The emissions reported in this PDS are for CY2021, which is both the base year and first year of certification. The CY2021 data is estimated on the basis of CY2019 data. The expected total emissions for the natural gas product are estimated to be ~62,760 t CO<sub>2</sub>-e in 2021. This number may increase depending on the level of uptake of the product.

Natural gas is purchased via supply contracts from various producers operating under different states and transmitted and distributed via various pipelines operated by pipeline operators.

The functional unit is gigajoules (GJ) of natural gas usage, with emissions expressed as tonnes of CO<sub>2</sub>-e per GJ.

***“Carbon neutral certified products tackle a key component of Origin Energy’s scope 3 emissions and are the latest addition to our comprehensive climate change commitments”***

## Organisation description

Origin is an integrated energy company with a rich heritage in energy exploration, production, power generation and retailing. We are one of the leading providers of electricity, natural gas, LPG and solar to homes and businesses throughout Australia and the Pacific. As of June 2020, Origin had 4.2 million customer accounts across Australia and the Pacific.

Origin owns, operates and contracts an electricity generation portfolio of over 7,400 MW, using a range of energy sources from traditional fuels like coal and natural gas, to renewables and storage such as solar, hydro and wind, across Australia.

Origin is the upstream operator and 37.5 per cent shareholder of Australia Pacific LNG, which supplies natural gas to domestic markets and exports LNG.

Our purpose of 'getting energy right for our customers, community and planet' underpins everything we do, and we understand our responsibility to our stakeholders. We are committed to providing 'good energy' that is reliable, affordable and sustainable for our customers. We respect the rights and interests of the communities in which we operate and consult with them to understand and manage our impact.

We unequivocally support the United Nations Framework Convention on Climate Change and the Paris Agreement, and actions consistent with maintaining the average global temperature increase to well below 2°C compared with pre-industrial levels, and pursuing efforts to further limit this increase to 1.5°C.

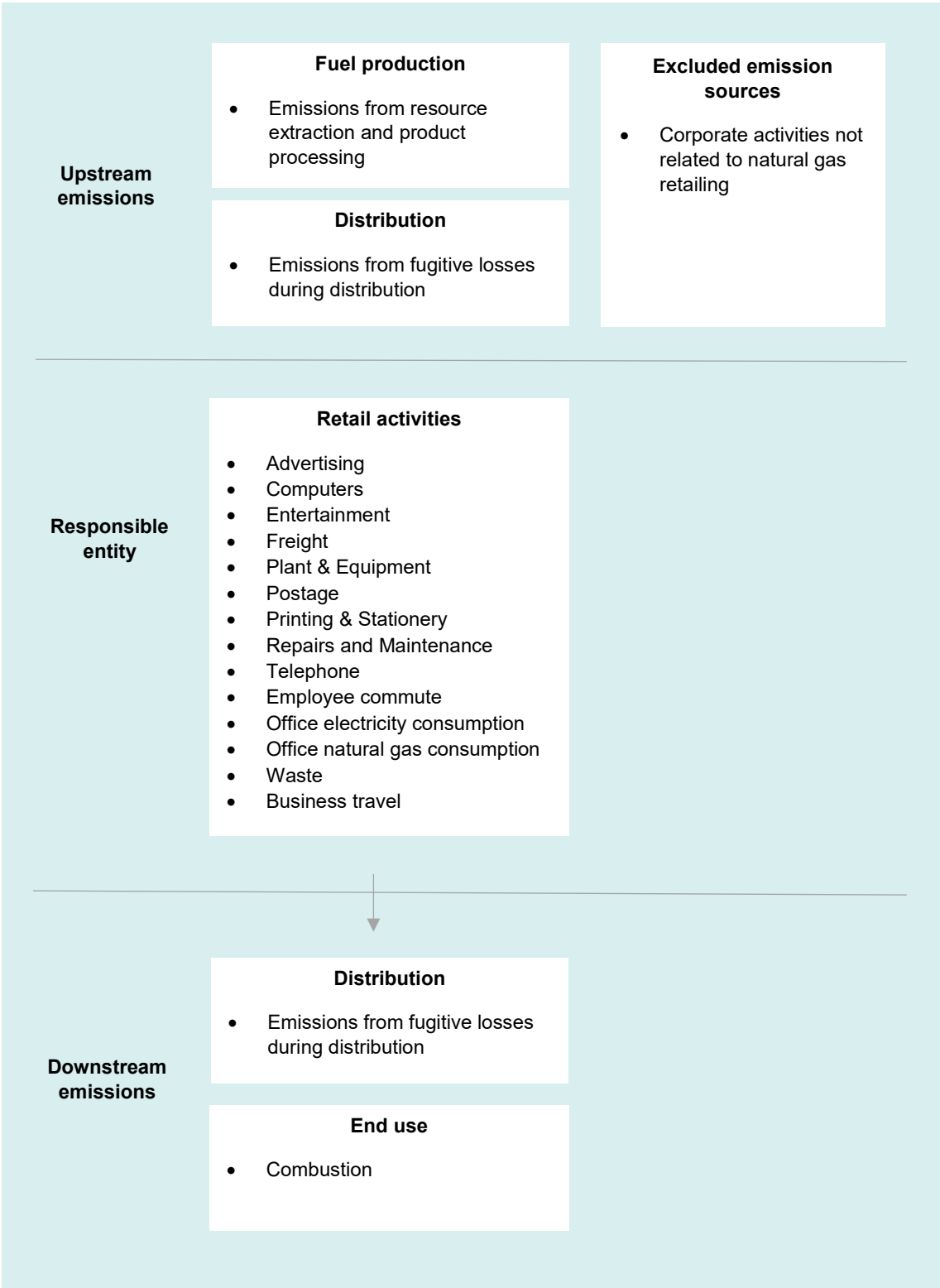
We believe Origin has a critical role in reducing emissions and delivering a clean energy future. Origin was the first company in Australia to set science-based emissions targets, independently approved by the Science Based Target initiative (SBTi).

We have developed a strategy to progressively decarbonise our business, and we are focused on empowering our customers with cleaner, smarter energy solutions.

This carbon neutral product certification will allow Origin to enable customers to opt-in and offset the greenhouse gas emissions associated with the supply and consumption of natural gas.

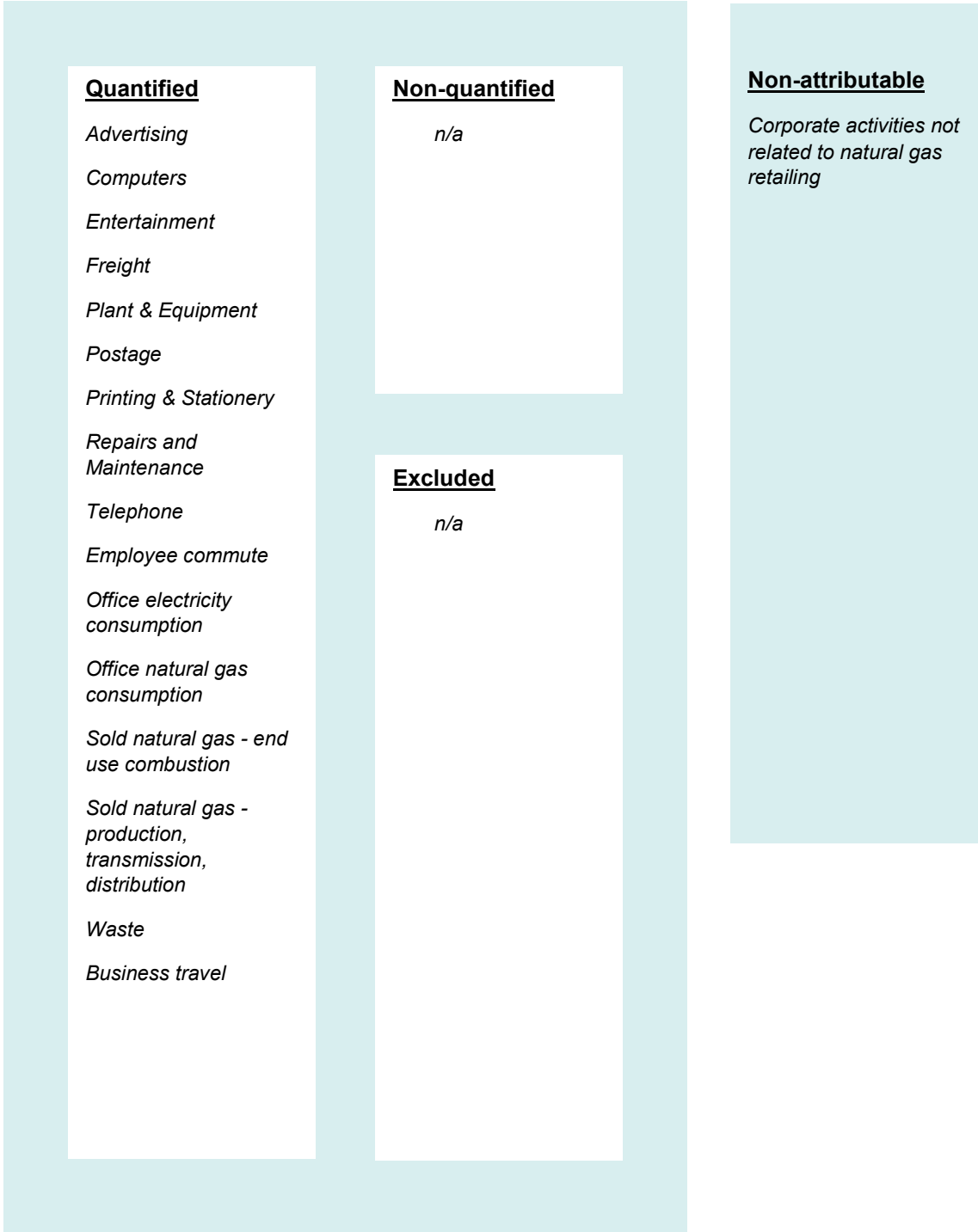
# Product/service process diagram

The following diagram is cradle to grave.



## 2. EMISSION BOUNDARY

### Diagram of the certification boundary



## **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)**

There are no excluded emission sources within the emissions boundary.

## **Non attributable sources (outside certification boundary)**

Corporate activities not related to natural gas retailing have been deemed non-attributable as they do not make or carry the product through its lifecycle.

## 3. EMISSIONS SUMMARY

### Emissions reduction strategy

Climate change is one of the most significant challenges facing society today and managing the transition to a low-carbon economy is a strategic priority for Origin.

Origin is a proud member of the 'We Mean Business' coalition, which is dedicated to accelerating corporate action on climate change. In 2017, Origin was the first Australian company to set a science-based emissions reduction target independently validated and approved by the Science-Based Target initiative (SBTi). We have announced plans to update our emissions reduction targets in line with a 1.5°C pathway, with a longer-term aim to achieve net-zero emissions by 2050.

Our commitments include halving our Scope 1 and Scope 2 greenhouse gas emissions by 2032 and reducing our Scope 3 emissions by 25 per cent over the same period. In keeping with our commitment to progressively decarbonise our business, we have announced a new short-term emissions target to reduce Scope 1 emissions over the three financial years to FY2023 by 10 per cent on average, compared to our FY2017 SBTi baseline.

We will continue to progressively review our targets and be informed by the science-based guidance as it evolves, whilst continuing our focus on providing customers with clean and sustainable energy solutions.

### Emissions over time

As this is the certification's base year, there are no changes in emissions over time to report.

### Functional units

Table 2

	Number of functional units
<i>a) Number of functional units sold this period</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>	1,091,283.8 GJ of natural gas



## Emissions summary (inventory)

Table 3

Emission source category	tonnes CO <sub>2</sub> -e
Electricity (location based)	4.4
Natural gas used in offices and sold to customers	62,618.6
Postage, courier and freight	40.7
Office equipment & supplies	26.3
Professional services	18.7
ICT services and equipment	8.9
Construction materials and services	0.0
Waste	4.1
Air transport	1.5
Land and sea transport	36.4
1. Total inventory emissions	62,760 tCO <sub>2</sub> -e
2. Emissions per functional unit (based on the number of functional units represented by the inventory) Total tCO <sub>2</sub> -e divided by the number of functional units in table 1.	0.05751 tCO <sub>2</sub> -e/GJ
3. Carbon footprint (Emissions per functional unit (2)* number of functional units (a or b from table 2))	62,760 tCO <sub>2</sub> -e

## Uplift factors

No uplift factors were required.

## Carbon neutral products

No carbon neutral products were used.

## 4. CARBON OFFSETS

**Offset purchasing strategy:** forward purchasing on a quarterly basis

**Table 5**

Forward purchasing summary	
1. Total offsets previously forward purchased for this reporting period	0
2. Total offsets required for this reporting period	62,760 tCO <sub>2</sub> -e. Offsets will be forward-retired quarterly in transactions of 15,690 tCO <sub>2</sub> -e in November 2020, March 2021, June 2021 and September 2021.
3. Net offset balance for this reporting period	62,760 tCO <sub>2</sub> -e of which 15,690 tCO <sub>2</sub> -e are retired in November 2020.
4. Total offsets to be forward purchased for next reporting period	62,760 tCO <sub>2</sub> -e

## Offsets summary

Table 6

<b>1. Total offsets required for this report</b>				15,690 tCO <sub>2</sub> -e					
<b>2. Offsets retired in previous reports and used in this report</b>				0					
<b>3. Net offsets required for this report</b>				15,690 tCO <sub>2</sub> -e					
Project description	Eligible offset units type	Registry unit retired in	Date retired	Serial number (including hyperlink to registry transaction record)	Vintage	Quantity (tonnes CO <sub>2</sub> -e)	Quantity used for previous report	Quantity banked for future years	Quantity used this report
Kia Ora Native Forest Protection Project	ACCU	ANREU	30 Nov 2020	<a href="#">3,796,172,488 - 3,796,176,711</a>	2019-20	4,224	0	0	4,224
Glenwood Native Forest Protection Project	ACCU	ANREU	30 Nov 2020	<a href="#">3,803,367,179 - 3,803,370,649</a>	2020-21	3,471	0	0	3,471
Buckwaroon Native Forest Protection Project	ACCU	ANREU	30 Nov 2020	<a href="#">3,803,889,344 - 3,803,893,581</a>	2020-21	4,238	0	0	4,238
Osterley Downs Native Forest Protection Project	ACCU	ANREU	30 Nov 2020	<a href="#">3,804,540,363 - 3,804,544,119</a>	2020-21	3,757	0	0	3,757
<i>Total offsets retired this report and used in this report</i>							15,690		
<i>Total offsets retired this report and banked for future reports</i>							0		

## Co-benefits

Origin has purchased offsets from projects in Australia. These projects are the Kia Ora, Buckwaroon, Glenwood and Osterley Downs Native Forest Protection Projects located in NSW, Australia. These projects will achieve a number of key conservation benefits including:

- Protecting soil from degradation through managed grazing
- Protection and regeneration of numerous native plant species
- Prevention of broad scale clearing
- Fire risk mitigation

The Kia Ora Native Forest Protection Project is located south west of Cobar, NSW. The project area is approximately 18,000 hectares in size and is dominated by Callitris, Eucalyptus, Dodonea, and Eremophila species. These vegetation types have been typically cleared or degraded in many parts of western NSW. The communities present on the property are vulnerable to local extinction due to excessive clearing in the bioregion, this project is ecologically significant for the conservation of the native plants and animals.

The Buckwaroon Native Forest Protection Project, situated approximately 30km north of Cobar NSW, comprises many box flats and varying terrains throughout. The vegetation is primarily Mulga with a Eucalypt overstorey. Eremophila shrubs are also common. The project protects over 6,000 hectares of semi-arid woodland communities and maintains the ecological benefits provided by the native vegetation.

The Glenwood Native Forest Protection Project is located just outside of Nymagee in the Cobar Shire, NSW. It protects just over 4,000 hectares of semi-arid woodland communities. The canopy is comprised of a mix of species. Due to the excessive clearing in the Cobar Penneplain bioregion, these vegetation communities are vulnerable to local extinction. This project is significant for the conservation of native plants and wildlife.

The Osterley Downs Native Forest Protection Project, located south of Cobar NSW, protects over 11,000 hectares of semi-arid woodland communities including grasslands, shrublands and woodlands. The project area is dominated by Callitris, Eucalyptus, Dodonea, and Eremophila species.

## 5. USE OF TRADEMARK

**Table 7**

Description where trademark used	Logo type
Sustainability report	Certified product
Website	Certified product
Social media and PR	Certified product
Marketing materials (print and digital)	Certified product

## 6. ADDITIONAL INFORMATION

# 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 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>
Corporate activities not related to natural gas retailing	No	No	No	No	No

## 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**

<b>Non-quantification test</b>				
Relevant-non-quantified emission sources	<i>Immaterial &lt;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>
-	-	-	-	-