



PUBLIC DISCLOSURE STATEMENT

LUMO ENERGY

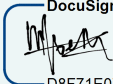
PRODUCT CERTIFICATION
FY2022–23 (PROJECTED)

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Lumo Energy
REPORTING PERIOD	Financial year 1 July 2022 – 30 June 2023 Projected report
DECLARATION	<p><i>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.</i></p> <p>DocuSigned by:  D8F71E0700EF439...</p> <p>Martin Exelby Chief Financial Officer 12 October 2022</p>



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

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Version March 2022. To be used for FY20/21/CY2021 reporting onwards.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	13.3t CO ₂ -e
THE OFFSETS BOUGHT	100% ACCUs
RENEWABLE ELECTRICITY	100% GreenPower (for retailing activities)
TECHNICAL ASSESSMENT	Date: 04 October 2022 Name: Katherine Simmons Organisation: KREA Consulting Pty Ltd Next technical assessment due: FY25
THIRD PARTY VALIDATION	

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2. CARBON NEUTRAL INFORMATION

Description of certification

This Public Disclosure Statement (PDS) Lumo Energy (SA)'s (ABN 61 114 356 697) application for carbon neutral certification for its Natural Gas product under Climate Active. This product named "Carbon Neutral Gas" will be offered as an opt-in product for residential and small business customers.

Product description

Carbon Neutral Gas is an Opt-in product which enables customers to offset greenhouse gas emissions associated with their consumption of Natural Gas at their connection point.

The emissions reported in this PDS are for FY23, which is both the base year and first year of certification. The data is estimated on the basis of budgeted FY23 data. The expected total emissions for the natural gas product are estimated to be ~13 t CO₂-e in 2023. 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.

Functional unit

The functional unit is tonnes CO₂-e per GJ of Carbon Neutral Gas product sold (cradle-to-grave). GHG emission sources covered are those associated with

- extraction, production, and distribution of natural gas,
- consumption of natural gas at the customers' premises (combustion), and
- Carbon Neutral Gas retailing activities.

"Lumo Energy is committed to a renewable energy future. With the support of Snowy Hydro we can lead the decarbonisation of the National Electricity Market. Climate Active helps us demonstrate our commitment and progress towards achieving those goals."

3. EMISSIONS BOUNDARY

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as 'attributable processes' that become the product, make the product and carry the product through its life cycle. These have been quantified in the carbon inventory.

Non-quantified emissions have been assessed as attributable and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

Outside the emissions boundary

Non-attributable emissions have been assessed as not attributable to a product or service. They can be **optionally included** in the emissions boundary and therefore have been offset, or they can be listed as outside of the emissions boundary (and are therefore not part of the carbon neutral claim). Further detail is available at Appendix D.

Inside emissions boundary

Quantified/ attributable

Natural gas distributed in a pipeline in SA, metro and non-metro Retailing activities (*N.B. associated GHG emission sources are included in the organisation certification of Lumo Energy*)
Electricity
ICT services and equipment
Office equipment & supplies
Professional services

Non-quantified

N/A

Outside emission boundary

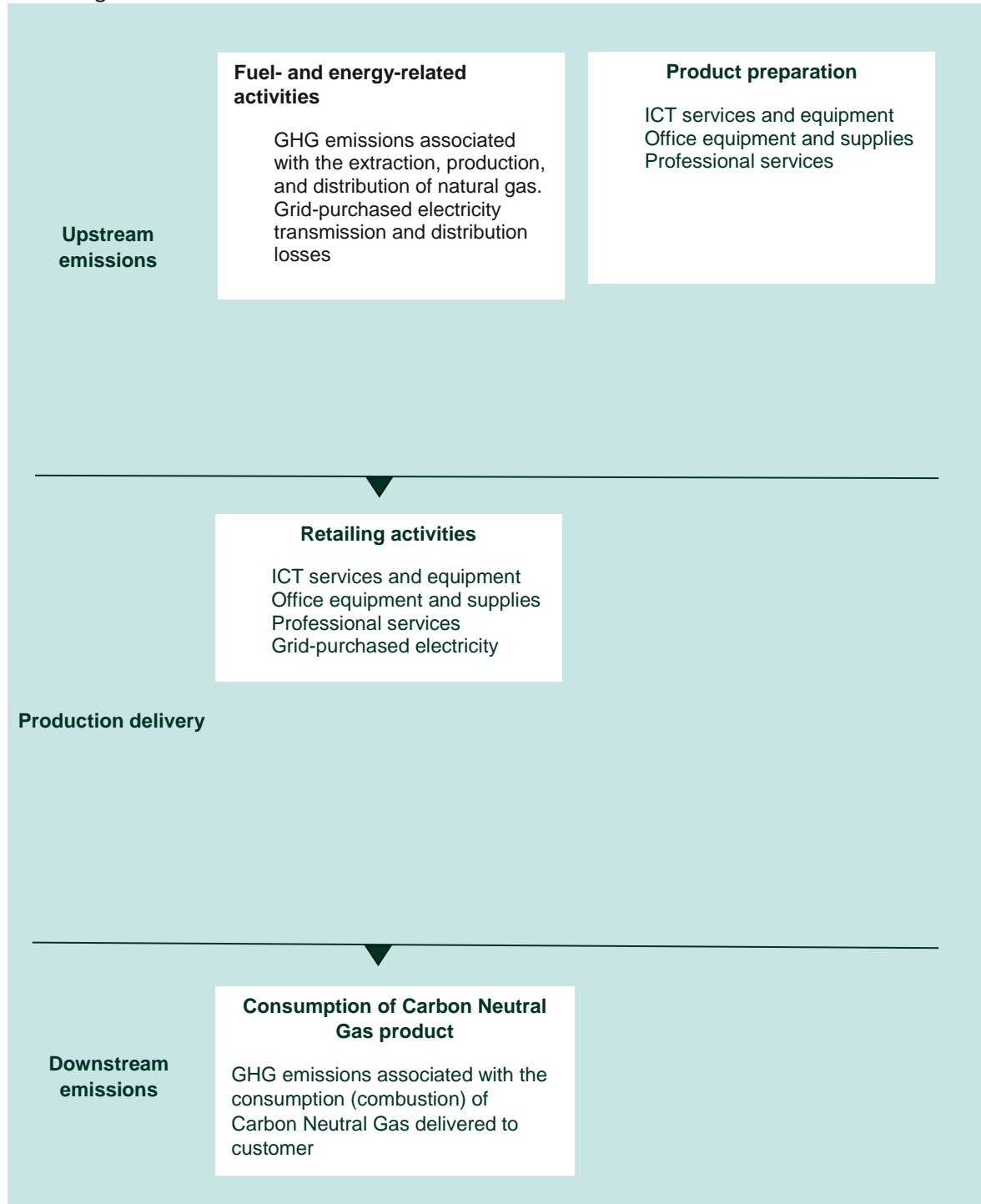
Non-attributable

Land and sea transport
Stationary energy
Electricity NZ
Professional services not related to Carbon Neutral Gas product
ICT services and equipment not related to Carbon Neutral Gas product
Office equipment and supplies not related to Carbon Neutral Gas product
Refrigerants
Waste
Water

(N.B. Non-attributable emissions are included in the organisation certification of Lumo Energy and have been offset).

Product/service process diagram

Cradle-to-gate



Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

The data management plan below outlines how more rigorous quantification can be achieved for material (greater than 1%) non-quantified emission sources.

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Lumo Energy's emissions reduction strategy is summarised in the parent organisation's PDS, which is available on the [Climate Active website](#).

5. EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

Not applicable

Product/Service emissions summary

Stage	tCO ₂ -e
Extraction, production, and distribution of Carbon Neutral Gas product	1.42
Consumption (combustion) of Carbon Neutral Gas Product	11.88
Retailing activities	0.33

Emissions intensity per functional unit	0.056
Number of functional units to be offset	245
Total emissions to be offset	13.30*

* Retailing activities are covered by Lumo Energy's organisation certification, see [Climate Active website](#)

6. CARBON OFFSETS

Offsets retirement approach

Forward purchasing	
1. Total emissions footprint to offset for this report	13.30t CO ₂ -e
2. Total eligible offsets purchased and retired for this report and future reports	466
3. Total eligible offsets retired and used for this report	14
4. Total eligible offsets forward purchased and banked to use toward next year's report	452

* Projecting 14 from 32 banked offsets.

Co-benefits

Eligible offsets retirement summary

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	Stapled quantity	Eligible quantity (tCO ₂ -e)	Eligible quantity used for Organisation certifications and Red Energy product	Eligible quantity banked for future reporting use	Eligible quantity used for this reporting period	Percentage of total (%)
Mullagalah Regeneration Project (EOP101098)	ACCU	ANREU	06 July 2022	8,331,176.493-8,331,176.514	2021-22		5,000*	4,534	452	14	100%
Total offsets retired this report and used in this report										14	
Total offsets retired this report and banked for future reports									452		

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Australian Carbon Credit Units (ACCUs)	14	100%

The offset summary for Lumo Energy covers the list below, each PDS is available on the [Climate Active website](#)

*The above offsets are to cover the projected FY2022-23 emissions for each entity as follows:

- Red Energy – Organisation 2,943 (2942.82 t CO₂-e)
- Lumo Energy – Organisations 1,183 (1,182.51 t CO₂-e)
- Direct Connect – Organisation 88 (87.04 t CO₂-e)
- Red Energy – Opt-in Gas Product 320 (319.32 t CO₂-e)
- Lumo Energy – Opt- in Gas Product 14 (13.3 t CO₂-e)
- Total banked for future use 452

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

N/A

The following RECs have been surrendered to reduce electricity emissions under the market-based reporting method.

1. Large-scale Generation certificates (LGCs)*	
2. Other RECs	

* LGCs in this table only include those surrendered voluntarily (including through PPA arrangements), and does not include those surrendered in relation to the LRET, GreenPower, and jurisdictional renewables.

Project supported by LGC purchase	Eligible units	Registry	Surrender date	Accreditation code (LGCs)	Certificate serial number	Generation year	Quantity (MWh)	Fuel source	Location
<i>Total LGCs surrendered this report and used in this report</i>									

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

Any GHG emissions associated with grid-purchased electricity are covered by Lumo Energy's organisation certification.

Electricity emissions are calculated using a market-based approach
Location-based method

The location-based method provides a picture of a business's electricity emissions in the context of its location, and the emissions intensity of the electricity grid it relies on. It reflects the average emissions intensity of the electricity grid in the location (State) in which energy consumption occurs. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments. It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

Market Based Approach Summary			
Market Based Approach	Activity Data (kWh)	Emissions (kgCO ₂ e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	0	0	0
Total non-grid electricity	0	0	0
LGC Purchased and retired (kWh) (including PPAs & Precinct LGCs)	0	0	0
GreenPower	0	0	0
Jurisdictional renewables (LGCs retired)	0	0	0
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0
Large Scale Renewable Energy Target (applied to grid electricity only)	0	0	0
Residual Electricity	0	0	0
Total grid electricity	0	0	0
Total Electricity Consumed (grid + non grid)	0	0	0
Electricity renewables	0	0	
Residual Electricity	0	0	
Exported on-site generated electricity	0	0	
Emissions (kgCO ₂ e)		0	
Total renewables (grid and non-grid)	0		
Mandatory	0		
Voluntary	0		
Behind the meter	0		

Residual Electricity Emission Footprint (TCO2e)	0
<i>Figures may not sum due to rounding. Renewable percentage can be above 100%</i>	

Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Grid electricity (scope 2 and 3)	0	0	0
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	0	0	0
Total Electricity Consumed	0	0	0

Emission Footprint (TCO2e)	0
<i>Scope 2 Emissions (TCO2e)</i>	0
<i>Scope 3 Emissions (TCO2e)</i>	0

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
<i>Enter product name/s here</i>	0	0

Climate Active carbon neutral electricity is not renewable electricity. The emissions have been offset by another Climate Active member through their Product certification.

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following sources emissions have been assessed as attributable, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. These emissions are accounted for through an uplift factor. They have been non-quantified due to one of the following reasons:

1. **Immaterial** <1% for individual items and no more than 5% collectively
2. **Cost effective** Quantification is not cost effective relative to the size of the emission but uplift applied.
3. **Data unavailable** Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
4. **Maintenance** Initial emissions non-quantified but repairs and replacements quantified.

Relevant-non-quantified emission sources	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance plan in place
Not applicable				

Excluded emission sources

Attributable emissions sources can be excluded from the carbon inventory, but still considered as part of the emissions boundary if they meet **all three of the below criteria**. An uplift factor may not necessarily be applied.

1. A data gap exists because primary or secondary data cannot be collected (**no actual data**).
2. Extrapolated and proxy data cannot be determined to fill the data gap (**no projected data**).
3. An estimation determines the emissions from the process to be **immaterial**.

No relevant emission sources have been excluded.

APPENDIX D: OUTSIDE EMISSION BOUNDARY

Non-attributable emissions have been assessed as not attributable to a product or service (do not carry, make or become the product/service) and are therefore not part of the carbon neutral claim. To be deemed attributable, an emission must meet two of the five relevance criteria. Emissions which only meet one condition of the relevance test can be assessed as non-attributable and therefore are outside the carbon neutral claim. Non-attributable emissions are detailed below.

Lumo Energy's non-attributable emissions have been offset and are covered by its organisation certification.

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>
Not applicable					



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