



PUBLIC DISCLOSURE STATEMENT

LUMO ENERGY


**PRODUCT CERTIFICATION
FY2022-23 (TRUE-UP)**

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 True-up 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> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>DocuSigned by:  D8F71E0700EF439...</p> </div> <p>Martin Exelby Chief Financial Officer 18 February 2025</p>



Australian Government
**Department of Climate Change, Energy,
 the Environment and Water**

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Version: August 2023



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	1 tCO ₂ -e
THE OFFSETS USED	100% ACCUs
RENEWABLE ELECTRICITY	100% GreenPower (for retailing activities)
CARBON ACCOUNT	Prepared by: Rennie Advisory
TECHINCAL ASESMENT	Date: 03 November 2022 Organisation: Katherine Simmons, KREA Consulting Next technical assessment due: FY26
THIRD PARTY VALIDATION	Type 3 Date 11/02/2025 Lifecycle Strategies Pty Ltd

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2. CARBON NEUTRAL INFORMATION

Description of certification

This Public Disclosure Statement (PDS) covers 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" is 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 FY22-23, which is both the base year and first year of certification. The previous report was a projection. This report is a true-up report and provides actual emissions.

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.

GHG emissions associated with Carbon Neutral Gas retailing activities have been calculated according to the proportion of FTEs involved in the retail of the Carbon Neutral Gas product. These have been offset under the Lumo Energy parent organisation certification.

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' of a product or service. These attributable processes are services, materials and energy flows that become the product or service, make the product or service and carry the product or service through its life cycle. These attributable emissions 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

- Emissions from the exploration and production of natural gas
- Transmission & distribution losses for natural gas
- Combustion of gas at customers' premises
- Electricity
- ICT services and equipment
- Office equipment & supplies
- Telecommunications
- Outsourced customer support services
- Professional services
- Transport (land and sea)
- Transport (air)
- Stationary energy
- Refrigerants
- Electricity – New Zealand
- Waste
- Water
- Accommodation and facilities

Non-quantified

N/A

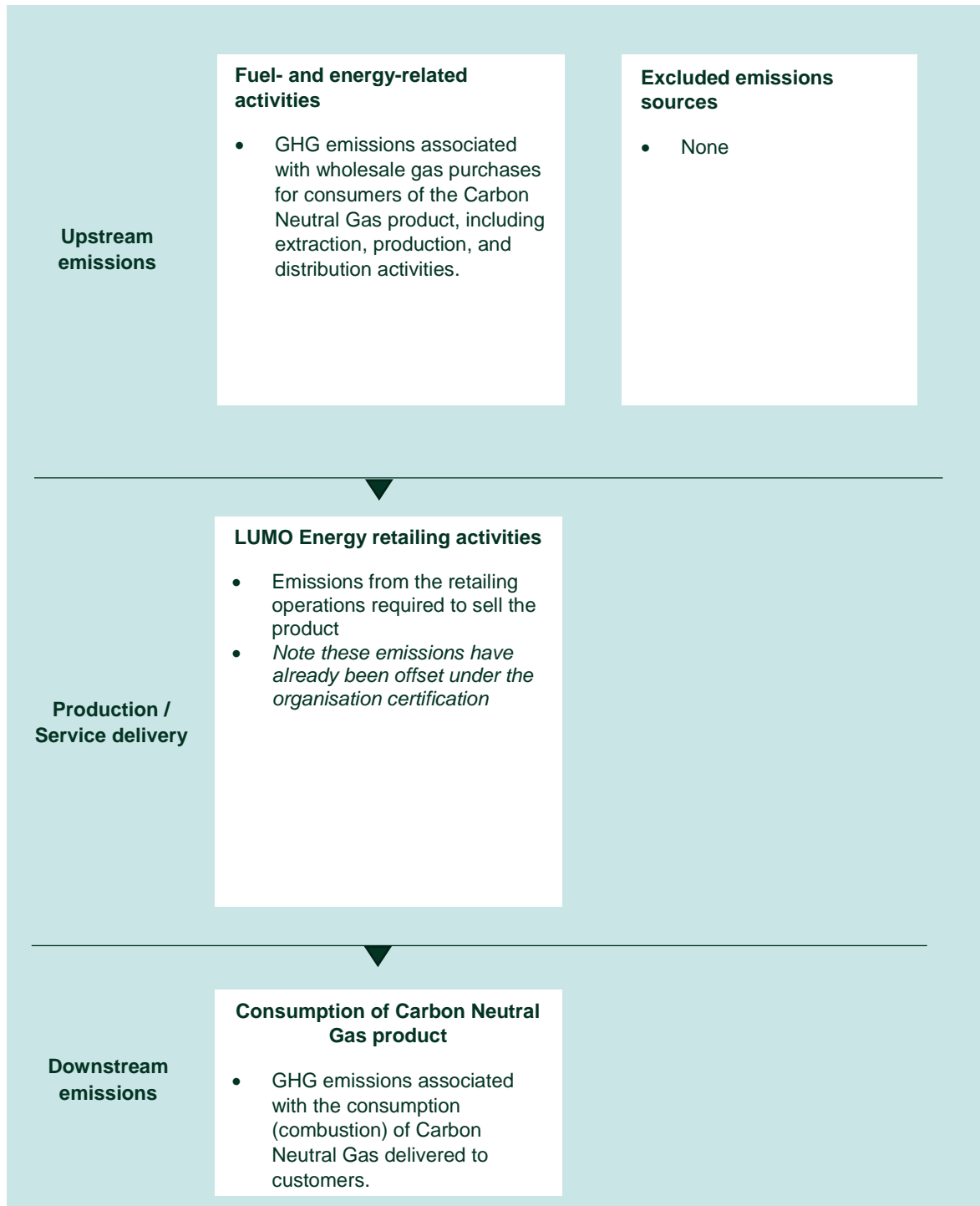
Outside emission boundary

Non-attributable

N/A

Product/service process diagram

Cradle-to-grave



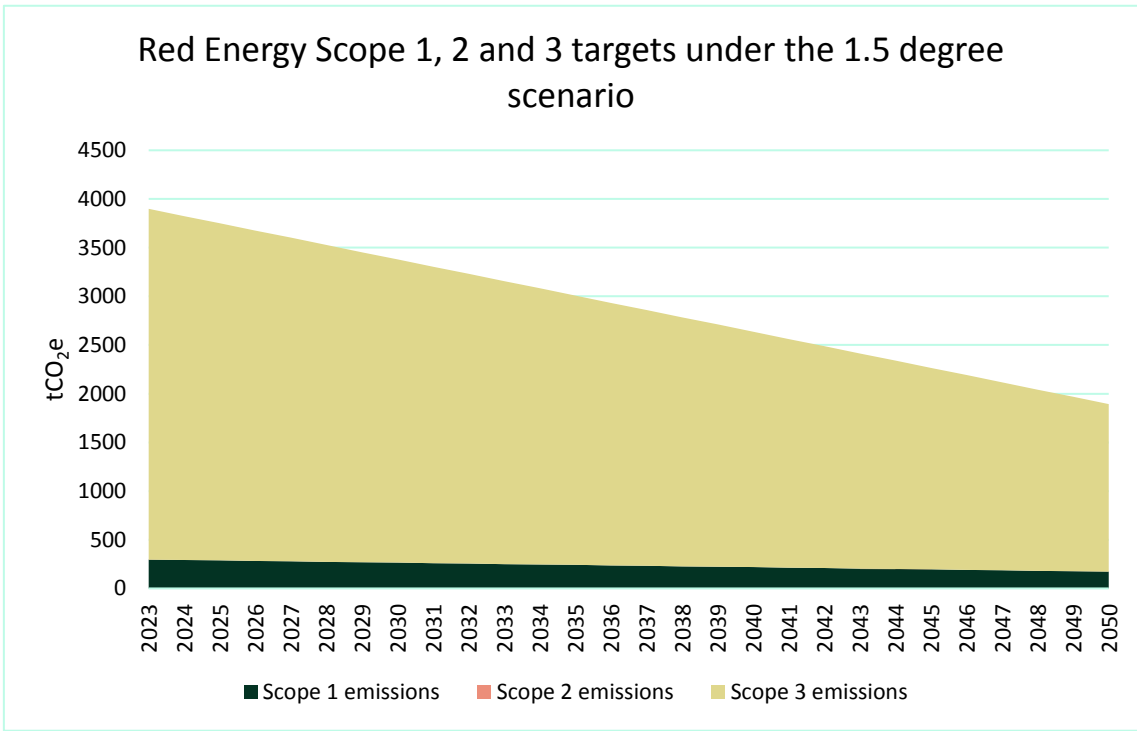
4. EMISSIONS REDUCTIONS

Emissions reduction strategy

We achieved carbon neutrality by offsetting our residual carbon footprint and are striving to reduce our footprint further and reduce the need to rely on carbon offsets.

As part of this journey, we are committed to **reducing our scope 1, 2, and 3 GHG emissions by 42% by the end of the fiscal year 2050**, with FY23 as our base year. This strategy outlines our specific approaches to meet these targets.

This emissions reduction strategy extends to all certifications covered under the Red Energy parent certification.



Emissions reduction actions

Action item	Commencement date	Expected outcome	Details
Purchase of electric and hydrogen vehicles	Already implemented	8-12% reduction in scope 1 emissions	Purchased 5 electric and 2 hydrogen vehicles. Trialling EV chargers at the Bryant & May building.
Fleet transition to electric vehicles	Target: 2027	Elimination of scope 1 emissions from fleet.	Committed to replacing the entire vehicle fleet with electric vehicles by 2027.
100% GreenPower commitment	Already implemented	100% reduction in scope 2 emissions.	Committing to source 100% of electricity from GreenPower or similar renewable energy options.
Engaging with Red Energy suppliers	Ongoing	3-5% reduction in scope 3 emissions from suppliers	Asking suppliers to collaborate with Red Energy to reduce their carbon footprint.
LED Lighting at Bryant & May Office	Already implemented	Reduction in energy consumption	Replaced traditional lights with energy-efficient LED lighting at the Bryant & May office.
Paper-light policy	Already implemented	1-2% reduction in scope 3 emissions	Implemented a paper-light policy and encouraged digital work.
Installation of light sensors	Already implemented	Additional reduction in energy consumption	Equipped offices with light sensors for ambient light and auto shut-off meeting room lighting.
Promotion of video conferencing	Ongoing	5-7% reduction in scope 3 emissions from business travel	Promoting video conferencing to minimise travel.
Flexible working arrangements	Ongoing	2-4% reduction in scope 3 emissions from commuting.	Encouraging flexible working arrangements to reduce employee commuting.
Promotion of eComms for customers	Ongoing	1-2% reduction in scope 3 emissions	Encouraging customers to opt for electronic communications to reduce paper usage and associated emissions.

5. EMISSIONS SUMMARY

Significant changes in emissions

Emission source name	Projected emissions FY23 (t CO ₂ -e)	Actual emissions FY23 (t CO ₂ -e)	Detailed reason for change
Extraction, production, and distribution of Carbon Neutral Gas product	1.42	0.16	Lower units sold than projected due to a later rollout of the product than projected.
Consumption (combustion) of Carbon Neutral Gas Product	11.88	0.77	

Use of Climate Active carbon neutral products and services

Not applicable.

Emissions summary

Life cycle stage	tCO ₂ -e	Product offset liability (tCO ₂ -e)
Upstream emissions	0.16	0.16
Downstream emissions	0.77	0.77
Production / Service delivery (i.e. retail)	0.019	0 ¹

Emissions intensity per functional unit	0.06 tCO₂-e per GJ
Number of functional units to be offset	14.91 GJ
Total emissions to be offset	0.93 tCO ₂ -e

¹ Production/ Service delivery (i.e. retail) emissions are covered under LUMO Energy's organisational certification.

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 0.93t CO₂-e. The total number of eligible offsets used in this report is 1t CO₂-e. Of the total eligible offsets, 14t CO₂-e were previously used for the projected report. Zero offsets were newly purchased and retired following the true-up. 13 are remaining and have been banked for future use.

Co-benefits

Mullagalah Regeneration Project: This project establishes permanent native forests through assisted regeneration from in-situ seed sources (including rootstock and lignotubers) on land that was cleared of vegetation and where regrowth was suppressed for at least 10 years prior to the project having commenced.

Eligible offsets retirement summary

Offsets retired 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 retired (tCO ₂ -e)	Eligible quantity used for other reports	Eligible quantity banked for future reporting periods	Revised eligible quantity used this report	Percentage of total (%)
Mullagalah Regeneration Project	ACCU	ANREU	06 July 2022	8,331,175,515–8,331,176,514	2021-22		5,000	3920*	1079	1	100%
Total eligible offsets retired and used for this report										1	
Total eligible offsets retired across this parent certification and banked for use in future reports									1079		

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Australian Carbon Credit Units (ACCU)	1	100%

*Red Energy Organisation 2,558; Lumo Energy Organisation 1,233; Direct Connect Organisation 110; Red Energy Carbon Neutral Gas Product 19; Lumo Energy Carbon Neutral Gas Product 1; True Green Carbon Neutral Electricity Product 0

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary


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

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

* 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	Project location	Eligible unit type	Registry	Surrender date	Accreditation code	Certificate serial number	Generation year	Fuel source	Quantity (MWh)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total LGCs surrendered this report and used in this report									N/A

APPENDIX A: ADDITIONAL INFORMATION



Australian National Registry of Emissions Units

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Transaction Details

Transaction details appear below:

Transaction Successfully Approved

Transaction ID	AU22949
Current Status	Completed (4)
Status Date	06/07/2022 11:39:09 (AEST) 06/07/2022 01:39:09 (GMT)
Transaction Type	Cancellation (4)
Transaction Initiator	Exelby, Martin
Transaction Approver	Fenton, David John
Comment	Voluntary cancellation for Red Energy and affiliates Climate Active accreditation

Transferring Account

Account Number: AU-1507

Account Name: Red Energy Pty Limited

Account Holder: Red Energy Pty Limited

Acquiring Account

Account Number: AU-1058

Account Name: Australia Voluntary Cancellation Account

Account Holder: Commonwealth of Australia

Party	Type	Transaction Type	Original CP	Current CP	ERF Project ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial Range	Quantity
AU	KACCU	Voluntary ACCU Cancellation			EQP101038					2021-22		8,331,171,515 - 8,331,176,314	5,000

Transaction Status History

Status Date	Status Code
06/07/2022 11:39:09 (AEST)	Completed (4)
06/07/2022 01:39:09 (GMT)	Completed (4)

Certification	Type and level	Projected retirement (previous report)	True-up retirement (this report)	Difference	Inclusions
Red Energy	Organisation (Parent)	2943	2558 (8,331,171,515 - 8,331,174,072)	-385	Red Energy organisation emissions; Red Energy Carbon Neutral Gas Product retail emissions; True Green Carbon Neutral Electricity Product retail emissions
Lumo Energy	Organisation (Child)	1183	1233 (8,331,174,073 – 8,331,175,305)	50	Lumo Energy organisation emissions; Lumo Energy Carbon Neutral Gas retail emissions
Direct Connect	Organisation (Child)	88	110 (8,331,175,306 - 8,331,175,415)	22	Direct Connect organisation emissions
Lumo Energy Carbon Neutral Gas	Product (Child)	14	1 (8,331,175,435)	-13	Lumo Energy Carbon Neutral Gas non-retail product emissions
Red Energy Carbon Neutral Gas	Product (Child)	320	19 (8,331,175,416– 8,331,175,434)	-301	Red Energy Carbon Neutral Gas non-retail product emissions
True Green Carbon Neutral Electricity	Product (Child)	N/A	0	0	True Green Carbon Neutral Electricity non-retail product emissions
Total offsets banked and available for use for all certifications under the Red Energy Parent certification					1,530

The above offsets are to cover the true-up FY2022-2023 emissions for Lumo Energy's Carbon Neutral gas product (up and downstream emissions only, not retailed emissions). As a group of certifications, the 5,000 offsets purchased and retired have been allocated as shown.

APPENDIX B: ELECTRICITY SUMMARY

Not Applicable.

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following emissions sources 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	Justification reason
Not applicable.	N/A

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 actual data	No projected data	Immaterial
Not applicable.			

Data management plan for non-quantified sources

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

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.

1. **Size** The emissions from a particular source are likely to be large relative to other attributable emissions.
2. **Influence** The responsible entity could influence emissions reduction from a particular source.
3. **Risk** The emissions from a particular source contribute to the responsible entity's greenhouse gas risk exposure.
4. **Stakeholders** The emissions from a particular source are deemed relevant by key stakeholders.
5. **Outsourcing** The emissions are from outsourced activities that were previously undertaken by the responsible entity or from outsourced activities that are typically undertaken within the boundary for comparable products or services.

Non-attributable emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Not applicable.						



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