

PUBLIC DISCLOSURE STATEMENT

ELGAS LTD

PRODUCT CERTIFICATION CY2022

Climate Active Public Disclosure Statement







NAME OF CERTIFIED ENTITY	Elgas Ltd (ABN: 85 002 749 260)
REPORTING PERIOD	1 January 2022 – 31 December 2022 (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.
	Sarch .
	Name of signatory – Gareth O'Brien Position of signatory – Director Elgas Date – 24 January 2023
E HATTER	



Australian Government

Department of Climate Change, Energy, the Environment and Water

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Version March 2022.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	282 tCO2-e (projected)
THE OFFSETS BOUGHT	282 tCO2-e
RENEWABLE ELECTRICITY	N/A
TECHNICAL ASSESSMENT	Date: 28 June 2022 Name: Andrew Gunst, CEO Organisation: Resource Intelligence Pty Limited Next technical assessment due: June 2025
THIRD PARTY VALIDATION	Initial report Type 3 Date: 22 July 2022 Name: Benjamin Jenkins, Director Organisation: GPP Audit Pty Limited

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2. CARBON NEUTRAL INFORMATION

Description of certification

This certification relates to Elgas Ltd's ABN 85 002 749 260 liquefied petroleum gas (LPG) product. The certification will be a cradle to grave life cycle assessment comprising of the following activities:

- Upstream production, transportation, refining & storage.
- Bottling, storage & distribution operations
- Downstream consumption by consumers.
- Corporate activities associated with Elgas operations

Carbon neutral LPG will be offered to customers as an opt-in product.

The functional unit is tonnes (t) of LPG sold by Elgas in Australia, with emissions expressed as tonnes of CO2-e per tonne of LPG sold.

The emissions inventory within this public disclosure statement covers the projected data for the period 1 January 2022 to 31 December 2022. It has been developed in accordance with the Climate Active Carbon Neutral Standard for Products and Services.

Product description

Elgas is a leading supplier of liquified petroleum gas (LPG) products for home, business and transport uses in Australia. It operates service centres across the country and LPG storage facilities at Dandenong and 'The Cavern' at Port Botany.

Elgas' main LPG products are:

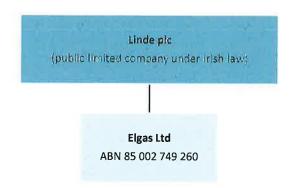
- LPG cylinders for domestic heating, cooking and hot water systems in homes.
- LPG cylinders and bulk storage for commercial and industrial applications.
- SWAP'n'GO LPG cylinders for barbeques, camping and outdoor heaters (leisure).

"Elgas is a subsidiary of Linde, a leading global industrial gases and engineering company, and helps customers worldwide improve their environmental performance and reduce their carbon footprint. At the same time, we are committed to minimising our own environmental resource intensity, including for energy, water and waste. Our performance is managed through a management system with KPIs and targets that are applicable to global operations and our value chain."



Elgas Ltd is a subsidiary of Linde plc, a leading global industrial gases and engineering company. As denoted in the following organisation chart, Linde plc is the global parent company for Elgas Ltd. Linde plc also has other operations in Australia.

The certification boundary that is outlined in this document is for Elgas' LPG products. Linde plc and its other operations in Australia are not included in the reporting boundary for this product certification and will not be using the Climate Active certification trademark.



At Linde and as part of the global operations, we live our mission of making our world more productive every day. Through our high-quality solutions, technologies and services we are making our customers more successful and helping to sustain and protect our planet. We are committed to fulfilling our vision to be the best performing global industrial gases and engineering company, where our people deliver innovative and sustainable solutions for our customers in a connected world.

Elgas uphold Linde's global standards internally and across their value chain. We maintain due diligence processes to reduce potential risks from compliance or environmental violations in prospective acquisitions and joint ventures. A member of Elgas' Management Committee is the senior executive responsible for this area.

LPG is made during natural gas processing and oil refining. The product is separated from unprocessed natural gas using refrigeration and extracted from heated crude oil using a distillation tower. Once separated it can be used is or further separated into LPG products comprising of three primary parts: propane, butane and isobutane. LPG is stored pressurised, as a liquid, in cylinders or tanks.

LPG is used in multiple domestic, commercial and industrial applications. In homes it is used for cooking, heating, hot water, autogas, aerosol propellant, air conditioning refrigerant and back-up generator applications. LPG used in a home is typically supplied in 45kg LPG gas bottles. It is also used in leisure time activities including caravans, boats, recreational vehicles and camping.

Business and industry use LPG fuel for a multitude of processes including steam boilers, kilns, ovens and LPG forklifts. LPG products are also employed as a propellant, refrigerant, vehicle fuel and petrochemical feedstock.

LPG fuel for transport is also a big user of LPG (Autogas).



The carbon neutral product certification includes LPG sold by Elgas in Australia to customers, with emissions expressed as tonnes of CO2-e per tonne of LPG sold. The product certification is a cradle to grave life cycle assessment comprising of the activities outlined in the certification description, above.

Carbon neutral LPG will be offered to customers as an opt-in product. Elgas will purchase carbon neutral offsets for those customers that have selected the Carbon Neutral LPG.

The following table lists the Elgas' LPG products that will be offered to customers as opt-in Carbon Neutral LPG.

Application	Product Type	Use
Home	45 kg, 90 kg, 210 kg cylinders & small bullets	Cooking, home heating & supply of hot water
	SWAP'n'GO LPG cylinders	barbeques and outdoor heaters
Business	15 kg & 18 kg gas cylinder for forklifts 820 L, 1640 L & 1960 L to 5880 L forklift LPG refill storage cylinders 0.5 tonnes to 50 tonnes & larger LPG storage vessels for bulk supply	Commercial and industrial applications, such as forklift trucks, agriculture, diesel substitution, caravan parks, hospitality, gas heating, gas hot water & industrial gases
SWAP'n'GO LPG	4 kg & 9 kg cylinders	Leisure - barbeques, camping and outdoor heaters etc.



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

There are no non-attributable emissions for this product certification.

The emission sources in the boundary diagram below are as per the emissions categories in the emission summary table (in section 4).



Inside emissions boundary Quantified Non-quantified Accommodation and Refrigerants facilities Cleaning and Chemicals Construction Materials and Services Electricity ICT services and equipment LPG - Volumes vented by Elgas sites and customers Machinery and vehicles Office equipment & supplies Postage, courier and freight **Products** Professional Services, including marketing activities Stationary Energy - gaseous fuels Stationary Energy - liquid Optionally included fuels - includes upstream & downstream combustion by Elgas sites and customers Transport - Air Transport - Land and Sea Waste Water Working from home

Outside emission boundary

Non-attributable

Linde & its other operations in Australia - corporate & engineering activities (see note below)

Note: Elgas Ltd is a subsidiary of Linde plc, which is the global parent company. The certification boundary that is outlined in this document is for Elgas' LPG products. Linde plc and its other operations in Australia are not included in the reporting boundary for this product certification and will not be using the Climate Active certification trademark.



Product process diagram

Upstream

emissions

Cradle-to-grave

Upstream Attributable Activities

- Fuel Production Upstream resource extraction and product processing of LPG supplier
- Fuel Distribution Upstream distribution losses
- LPG Cylinder Manufacturer -Upstream raw materials extraction and processing
- Purchased energy line losses - gas & electricity

Excluded emission sources

N/A

Product Production & Delivery Attributable Activities

- Accommodation and facilities
- Cleaning and Chemicals
- Construction Materials and Services
- Electricity
- ICT services and equipment
- LPG Volumes vented by Elgas sites and customers
- Machinery and vehicles
- Office equipment & supplies
- Postage, courier and freight
- **Products**
- Professional Services, including marketing activities
- Refrigerant
- Stationary Energy gaseous
- Stationary Energy liquid fuels
- Transport Air
- Transport Land and Sea
- Waste
- Working from home

Excluded emission sources - non-attributable

Linde & its other operations in Australia corporate & engineering activities

Production

delivery

- Water

Downstream Attributable Activities

Downstream emissions

- Downstream, transmission & distribution - LPG gas losses fugitive
- Downstream combustion of LPG product by customers and consumers



Data management plan for non-quantified sources

There is one non-quantified source in the emissions boundary that requires a data management plan. The following table outlines the data management plan for the non-quantified source.

Emission source	Management Plan	Due Date
Refrigerants - air-conditioning	Conduct a survey of office and operational sites	31 Oct 2023
units and other processes on	to determine if refrigerants are in use on site and	
Elgas sites	collect relevant equipment and usage data	



4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Elgas' emissions reduction strategy is governed by the Linde's global Sustainable Development Targets 2028 that are detailed in its 2021 Sustainable Development Report and summarised in the following diagram. The targets are a roadmap and plan for the next several years

2028 Sustainable Development Targets*



Reference: https://www.linde.com/-/media/linde/merger/documents/sustainable-development/2021/2021-sustainable-development-report-v2.pdf



The Sustainable Development Targets 2028 are organised into four categories or Priority Factors (PFs) that are considered relevant to the company and its internal and external stakeholders. The four PFs are:

- · Climate Change,
- Safety, Health & Environment,
- People & Community, and
- Integrity and compliance.

Within the four PFs are ten (10) subset areas covering twenty (20) targets that are summarised in the following diagram. The Climate Change targets span Linde's full value chain, from pre-investment and R&D to operations, customers and growth strategy.

Sustainable Development Targets 2018-2028*



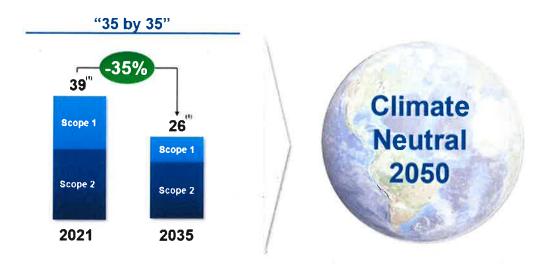
"See Perform over lower di largets for definitions of scope and boshdary of each larget. All tangets con 2018 - 2028 except where otherwise noted

Reference: https://www.linde.com/-/media/linde/merger/documents/sustainable-development/2021/2021-sustainable-development-report-v2.pdf



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In October 2021 Linde announced a new GHG reduction target for 2035 and its 2050 climate ambition as outlined in the following diagram. The targets reflect Linde's alignment with the goals of the Paris Agreement. Progress towards the 2035 target and 2050ambition will be provided in future Sustainability Development reports.



Commitment underpinned by strong policy and regulatory support

1) Million metric tons CO2e: The 2021 emissions are estimated, baseline will be established by 2021 audited figures.

Elgas are currently reviewing strategies that are aligned with the Linde's global Sustainable Development targets. These strategies include all aspects of its operations, including transport of LPG product, plant operations, office and branch operations and corporate activities. Elgas' focus will be on the following key Climate Change areas.

GHG intensity improvement across all operations eg., production, operations & distribution,

Renewable energy sourcing,

Sustainable Productivity Savings,

Sustainable Productivity - Zero waste,

Water Management, and

Clean Technology and Innovation.

Elgas' management team have prepared a list of Climate Change actions for its operations and are meeting on a regular basis to implement strategies and set target dates for its operations in Australia. More detailed information regarding Elgas' emission reduction strategies will be included in future updates of this document.



5.EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

List all Climate Active carbon neutral products/services used.

Certified brand name	Product or Service used
N/A	

Product emissions summary

Elgas' opt-in LPG product certification for Year 1 comprises of the following projected emissions summary for the period 1 January 2022 to 31 December 2022 (CY2022). The projected data is based on emissions data collected for the Base Year, 1 January 2021 to 31 December 2021 (CY2021).

Stage	tCO2-e
Upstream - LPG Production, LPG Distribution Losses, Raw Materials & Purchased Energy Line Losses	0.1
Production Delivery – LPG product delivery	6
Downstream – LPG Transmission & Distribution Losses & Combustion of LPG by customers and consumers	276

Emissions intensity per functional unit (tCO2-e/tonne)	3.52
Number of functional units to be offset – projected (tonnes)	80
Total emissions to be offset – projected (tCO2-e)	282

Note:

The total emissions to be offset (projected) includes an uplift factor that was added to the original emissions total. Please refer to the Uplift Factor table on the following page.

Carbon neutral LPG will be offered to customers as an opt-in product. Elgas will purchase carbon neutral offsets for those customers that have selected the Carbon Neutral LPG. The number of functional units to be offset each year will be based on the quantity of Carbon Neutral LPG sold by Elgas in Australia to customers. Total emissions to be offset will be calculated using the emissions intensity and tonnes of Carbon Neutral LPG sold.



Uplift factors

The following uplift factor was added to the original emissions total.

Reason for uplift factor		tCO ₂ -e
Uplift to conservatively account for non-quantit	ed and estimated sources	
where full source data is unavailable		5%



6. CARBON OFFSETS

Offsets retirement approach

INITIAL REPORT - Projected

Forward purchasing (projected)

toward next year's report

Total emissions footprint to offset for this report
 Total eligible offsets purchased and retired for this report and future reports
 Total eligible offsets retired and used for this report
 Total eligible offsets forward purchased and banked to use

Co-benefits

Elgas have purchased offsets from three projects, the Wattle Glen Landfill Gas Project, the Southern Cardamom REDD+ Project and the Anhuang Afforestation Project.

The Wattle Glen Landfill Gas Project is located in Queensland, Australia and captures and combusts methane gas generated at the landfill from legacy and non-legacy waste.

The Southern Cardamom REDD+ Project (SCRP) is located in the Koh Kong province of Cambodia. The project is an initiative designed to promote climate change mitigation and adaptation, maintain biodiversity and create alternative livelihoods under the United Nations scheme of Reducing Emissions from Deforestation and forest Degradation (REDD+). The 445,339 ha SCRP encompasses parts of Southern Cardamom National Park and Tatai Wildlife Sanctuary and will protect a critical part of the Cardamom Mountains Rainforest Ecoregion, said to be one of the 200 most important locations for biodiversity conservation on the planet. The Project will directly support the livelihoods of 21 villages in nine communes around the perimeter of the project area. Eight additional villages in four communes are eligible to receive educational scholarships. These communities represent approximately 3,957 families and 16,495 individuals.

The Anhuang Afforestation Project is located in the Guizhou Province of China. The project aims to plant native species on barren lands for GHG removal whilst contributing to local sustainable development goals. 39,000 ha of forest was planted on barren lands in Huangping County, Wengan County and Anlong County which used to be a poor sustainable ecological environment with karst rocky desertification. These barren lands for afforestation activities belong to the villagers and the village committees manage the lands on behalf of villagers. The implementation of the project activity has provided jobs for 28,500 local villagers, among which 60 percent are women.

Eligible offsets retirement summary

Offsets cance	elled for (Climate Ac	tive Cark	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 previous reporting periods	Eligible quantity banked for future reporting	Eligible quantity used for this reporting	Percentage of total (%)
Southern Cardamom REDD+ Project	VCU	Verra	27 Apr 2022	9778–134500763-134500770-VCS-VCU 263-VER KH-14-1748- 01012016-31122016-1 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=139753 Refer to Certificate_English_139753 (pdf).	01/01/2016	0	∞	0		∞	3%
Anhuang Afforestation Project	VCU	Vегта	27 Apr 2022	11588-344283998- 344284015-VCS-VCU 291-VER CN-14-2310- 15032016-31122016-1 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=160639	15/03/2016 31/12/2016	0	6	0	0	6	%9
Anhuana				Refer to Certificate_English_160639 (pdf). 11588-344294218-344294299-VCS-VCU 291-VER CN-14-2310-	15/03/2016						
Afforestation Project	000	Verra	27 Apr 2022	15032016-31122016-1 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=160335	31/12/2016	0	83	0	0	82	29%
Anhuang Afforestation Project	NCU	Vегга	27 Apr 2022	Refer to Certificate_English_160335 (pdf). 11588-344283916-344283997-VCS-VCU 291-VER CN-14-2310-15032016-31122016-1 https://registry.verra.org/myModule/rpt/myrpt.asp?r=2068h=151641	15/03/2016	0	82	0	0	82	79%
Wattle Glen Landfill Gas Project by	KACCU	ANREU	13 Dec 2022	Refer to VCU Retired Units_11588-344283916-344283997 (pdf). 3,795,254,432 - 3,795,254,523 Refer to Elgas ACCUs Retired_13-12-2022 summary (pdf). Note: Registry link was not available at the time of preparing this document.	2019-20	0	92	0.	0	95	33%



Total offsets retired this report and used in this report	282	100%	
otal offsets retired this report and banked for future reports			

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Australian Carbon Credit Units (ACCUs)	92	33%
Verified Carbon Units (VCUs)	190	%29



7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

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APPENDIX A: ADDITIONAL INFORMATION

N/A



APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a location-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 (kgCO2e)	Renewabl e Percentag e 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)	0	0	0%	
GreenPower	0	0	0%	
Jurisdictional renewables (LGCs retired)	9,487	0	0%	
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	2,159	0	0%	
Large Scale Renewable Energy Target (applied to grid electricity only)	1,188,061	0	19%	
Residual Electricity	5,220,033	5,190,556	0%	
Total grid electricity	6,419,740	5,190,556	19%	
Total Electricity Consumed (grid + non grid)	6,419,740	5,190,556	19%	
Electricity renewables	1,199,707	0		
Residual Electricity	5,220,033	5,190,556		
Exported on-site generated electricity	7,682	-5,608	1.3	
Emission Footprint (kgCO2e)		5,184,948		

Total renewables (grid and non-grid)	40.000/
	18.69%
Mandatory	18.69%
Voluntary	0.00%
Behind the meter	0.00%
Residual Electricity Emission Footprint	1177
(TCO2e)	5,185

Figures may not sum due to rounding. Renewable percentage can be above 100%

Voluntary includes LGCs retired by the ACT (MWh)



Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	11,647	9,084	815
NSW	3,578,081	2,790,903	250,466
SA	151,349	45,405	10,594
Vic	1,802,298	1,640,091	180,230
Qld	808,668	646,934	97,040
NT	0	0	0
WA	0	0	0
Tas	67,698	9,478	1,354
Grid electricity (scope 2 and 3)	6,419,740	5,141,895	540,499
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	Ö	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	0	0	0
Total Electricity Consumed	6,419,740	5,141,895	540,499

Emission Footprint (TCO2e)	5,682
Scope 2 Emissions (TCO2e)	5142
Scope 3 Emissions (TCO2e)	540

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
N/A	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 <u>one</u> of the following reasons:

- 1. <u>Immaterial</u> <1% for individual items and no more than 5% collectively
- 2. <u>Cost effective</u> Quantification is not cost effective relative to the size of the emission but uplift applied.
- 3. <u>Data unavailable</u> 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
Refrigerant	No	Yes (uplift applied)	Yes (uplift applied)	Yes

Excluded emission sources

N/A



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.

- Size The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions
- 2. <u>Influence</u> The responsible entity has the potential to influence the reduction of emissions from a particular source.
- 3. **Risk** The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.
- 4. Stakeholders Key stakeholders deem the emissions from a particular source are relevant.
- Outsourcing 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.

Emission sources tested for relevance	(1)	(2)	(3)	(4)	(5)
	Size	Influence	Risk	Stakeholders	Outsourcing
Linde & its other operations in Australia - corporate & engineering activities (see note below)	NA	NA	NA	NA	NA

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An Australian Government Initiative

