



PUBLIC DISCLOSURE STATEMENT

ORIGIN ENERGY LIMITED
PRODUCT CERTIFICATION
ORIGIN GO ZERO LPG
CY2024

Australian Government

Climate Active Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Origin Energy Limited
REPORTING PERIOD	Arrears report: 1 January 2024 – 31 December 2024
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>  <hr/>
	Amber Fennell General Manager, LPG Date: 3/12/2025



Australian Government

Department of Climate Change, Energy,
the Environment and Water

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Version 9.1.

1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	5,115 tCO ₂ -e
CARBON OFFSETS USED	50.01% ACCUs, 49.99% VCUs
RENEWABLE ELECTRICITY	Total renewables 100% *
CARBON ACCOUNT	Prepared by: Origin Energy Limited
TECHNICAL ASSESSMENT	11/04/2025 Thinkstep Pty Ltd Next technical assessment due: CY 2027

*Electricity emissions reported in this statement relate exclusively to office locations under operational control

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2. CERTIFICATION INFORMATION

Description of product certification

This product certification is for Origin Energy Limited (Origin's) ongoing carbon neutral certification Liquified Petroleum Gas (LPG) product under Climate Active. This product is marketed and sold as "Origin Go Zero LPG".

- Functional unit: tonnes (t) of LPG usage, with emissions expressed as tonnes of CO2-e (t CO2-e) per tonne of carbon neutral LPG sold.
- Offered as: opt-in product to Origin's LPG customers across all current market segments, including residential, small business, commercial and industrial customers.
- Life cycle: cradle-to-grave.

"Origin Go Zero LPG" allows customers to offset the greenhouse gas emissions associated with the sourcing, transmission, distribution, retailing and consumption of LPG.

The responsible entities for this product certification and their ABN are as follows:

Responsible entities	ABN
Origin Energy Electricity Limited	33 071 052 287
Origin Energy Retail Limited	22 078 868 425
Origin Energy LPG Limited	77 000 508 369
They are wholly owned subsidiaries of Origin Energy Limited	

This Public Disclosure Statement includes information for CY2024 reporting period.

Description of business

Origin Energy Electricity Limited, Origin Energy LPG Limited and Origin Energy Retail Limited are wholly owned subsidiaries of Origin Energy Limited, responsible for the reporting, marketing and selling of the "Origin Go Zero LPG" product.

Origin Energy LPG Limited and Origin Energy Retail Limited, retail LPG and associated services to residential and business customers across the Australian Capital Territory, New South Wales, Northern Territory, Queensland, South Australia, Tasmania, Victoria and Western Australia. LPG is mostly sourced domestically, with some international purchases. It is transported from suppliers' production facilities, refineries, and ports to 44 Origin terminals, and delivered to Origin's customers using a fleet of over 200 trucks, bulk tankers and installation vehicles. Origin Energy Electricity Limited is responsible for the reporting and offsetting of associated greenhouse gas emissions through the retirement of certificates in the relevant registries.

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.

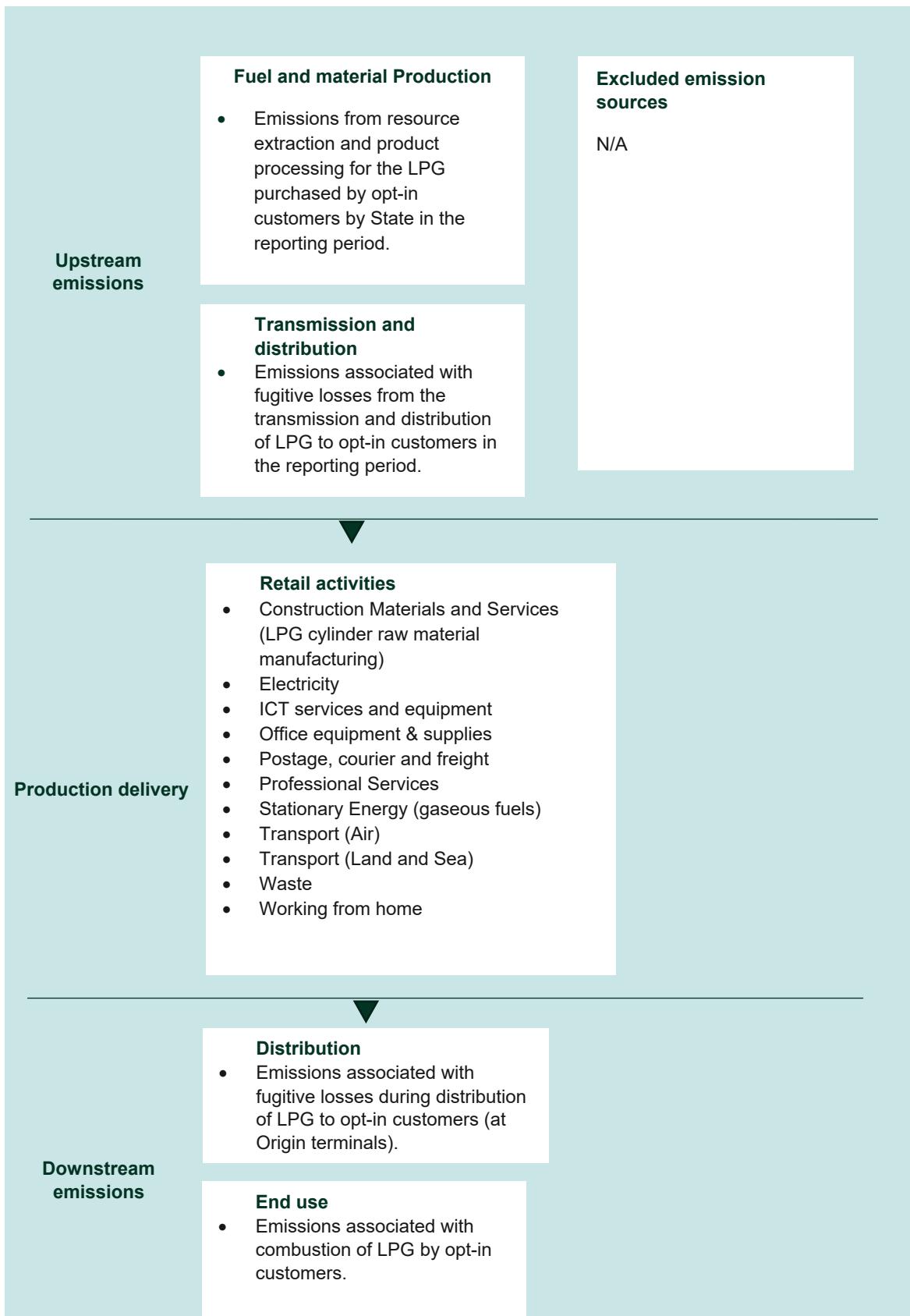
Outside the emissions boundary

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		Outside emission boundary
<p><u>Quantified</u></p> <p>LPG consumed by opt-in customers by state during the reporting period, end use combustion</p> <p>LPG sold – extraction, processing, and distribution (at Origin terminals).</p> <p>Origin retailing activities, including:</p> <ul style="list-style-type: none"> Construction Materials and Services (LPG cylinder raw material manufacturing) Electricity ICT services and equipment Office equipment & supplies Postage, courier and freight Professional services Stationary Energy (gaseous fuels) Transport (Air) Transport (Land and Sea) Waste Working from home Climate Active carbon neutral products and services 	<p><u>Non-quantified</u></p> <p>Water use at corporate sites related to LPG retailing.</p> <p>LPG losses at customer sites</p>	<p><u>Non-attributable</u></p> <p>Corporate activities not related to LPG retailing.</p>
	<p><u>Optionally included</u></p> <p>N/A</p>	

Product process diagram

Cradle-to-grave boundary



4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Climate change is one of the most significant challenges facing society today. Decarbonisation underpins Origin's strategic objectives and the opportunities created by the energy transition.

In 2022, Origin released its first Climate Transition Action Plan (CTAP), which outlines the company's strategy and ambition to lead the energy transition through cleaner energy and customer solutions.

The CTAP also includes targets to support the transition, and our long-term ambition to be net zero for Scope 1, 2 and 3 emissions by 2050. Origin's medium-term emissions reduction targets are to:

- reduce Scope 1, 2 and 3 equity emissions intensity by 40 per cent by 2030, from a FY2019 baseline; and
- reduce absolute Scope 1, 2 and 3 equity emissions by 20 million tonnes by 2030, from a FY2019 baseline.

We believe our medium-term emissions intensity target and our long-term net zero emissions ambition remain consistent with the goals of the Paris Agreement.¹

Our [2025 Climate Transition Action Plan](#) and latest [Sustainability Report](#) outline our progress against our plan and targets. Origin's ambition is supported by three strategic objectives and priorities to drive decarbonisation and evolve our portfolio. These are:

1. Unrivalled customer solutions and enable customers to decarbonise:

- We are providing customers with a growing portfolio of simple, affordable lower-carbon products and cleaner energy solutions, including rooftop solar and batteries, renewable energy, electric vehicle solutions, renewable power PPAs, load and demand management.
- Grow scale at Octopus Energy,² which is the largest energy retailer in the UK market by customer accounts. The electricity Octopus supplies to customers is 100 per cent matched from renewable energy, including wind, hydroelectric and solar power.

2. Accelerate renewable and cleaner energy:

- We aim to grow renewables and storage capacity within our generation portfolio to 4-5 GW by 2030.
- We aim to grow our Virtual Power Plant (VPP), which we expect to play an increasingly important role in helping us optimise the supply and demand balance in the electricity market – to 2 GW under management by FY2026.

¹ Pursuant to the methodology set out in the [CTAP](#).

² Origin has a ~23% interest in Octopus Energy

3. Deliver reliable energy through the transition and reduce emissions from our existing operations:

- Accelerate Eraring closure. In 2022, we announced plans to accelerate our exit from coal-fired power generation at the Eraring Power Station to potentially as early as August 2025. In May 2024, we agreed with the NSW Government to extend operations at Eraring Power Station to August 2027 to support the security of electricity supply in NSW. Under the terms of the agreement, the plant must retire in full no later than April 2029.
- Reduce emissions from our gas operations. As upstream operator for Australia Pacific LNG, we aim to reduce fugitive emissions by replacing equipment and devices with more efficient and advanced technologies, retrofitting facilities to reduce methane venting, and using artificial intelligence tools to manage flaring during planned shutdown and maintenance events and respond more quickly to unplanned shutdown events.

Emissions reduction actions

For CY2024, our LPG business continued the following actions:

1. Transitioning our light vehicle sales fleet to electric vehicles (EVs) where practicable. In CY2024, we converted 6 petrol & hybrid cars into EVs. This brings us to a total of 25 per cent EVs within our LPG light vehicle fleet. Our ongoing transition to EVs helps us lower fuel use and reduce Scope 1 emissions.
2. Encouraging our customers to switch to or take up LPG for use in machinery as an alternative to coal and / or diesel, as LPG is a lower emissions-intensity fuel than coal or diesel. In CY2024, we successfully signed two greenfield C&I customers who were considering coal or diesel for their main energy source, and we continued to identify and evaluate further opportunities for customers to convert from coal or diesel to LPG.
3. Roll-out of telemetry (LPG metering) technology, which enables remote gathering of LPG consumption data. By installing telemetry technology on LPG tanks, we can better manage LPG deliveries to our customers, resulting in fewer site visits. In CY2024, our fleet fuel consumption dropped by 32.5kL as a result of fewer site visits related to the installation of telemetry technology, helping to reduce our Scope 1 emissions.

5. EMISSIONS SUMMARY

Emissions over time

Emissions since base year			
		Total tCO ₂ -e	Emissions intensity of the functional unit
Base year/Year 1:	2021	3,601.48	3.1980 t CO ₂ -e per tonnes
Year 2:	2022	4,801.98	4.0103 t CO ₂ -e per tonnes
Year 3:	2023	5,977.76	4.0115 t CO ₂ -e per tonnes
Year 4:	2024	5,114.60	4.2464 t CO ₂ -e per tonnes

Significant changes in emissions

Significant changes in emissions			
Attributable process	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Reason for change
LPG- QLD Scope 3 EPT + T&D of LPG -Extraction, Processing, Transmission and Distribution	973.12	784.64	Reduced sales in QLD
LPG- NSW Scope 3 Emissions associated with combustion of LPG	952.68	784.64	Reduced sales in NSW
LPG- QLD Scope 3 Emissions associated with combustion of LPG	2,919.36	2,353.91	Reduced sales in QLD

Use of Climate Active carbon neutral products, services, buildings or precincts

Certified brand name	Product/Service/Building/Precinct used
Barangaroo Precinct	Origin NSW offices are in the Barangaroo Precinct (South)

Emissions summary

	Sum of Scope 1 emissions (tCO2-e)	Sum of Scope 2 emissions (tCO2-e)	Sum of Scope 3 emissions (tCO2-e)	Sum of Total emissions (t CO2-e)
Construction materials and services	0.00	0.00	1.27	1.27
Electricity	0.00	0.00	0.00	0.00
ICT services and equipment	0.00	0.00	0.44	0.44
Office equipment and supplies	0.00	0.00	14.97	14.97
Postage, courier and freight	0.00	0.00	254.00	254.00
Professional services	0.00	0.00	15.05	15.05
Stationary energy (gaseous fuels)	0.03	0.00	0.01	0.03
Stationary energy (liquid fuels)	0.00	0.00	4,827.33	4,827.33
Transport (air)	0.00	0.00	0.69	0.69
Transport (land and sea)	0.00	0.00	0.38	0.38
Waste	0.00	0.00	0.24	0.24
Working from home	0.00	0.00	0.21	0.21
Grand Total	0.03	0.00	5,114.58	5,114.60

No uplift factors were included in the emissions total.

Since this is an opt-in product, this emissions summary represents the attributable emissions from customers who have opted-in to the product only.

Note:

Electricity emissions reported in this statement relate exclusively to office locations under operational control.

Stationary energy (liquid fuels) Scope 3 emissions include upstream emissions (extraction, processing, transmission and distribution) of LPG, and combustion of LPG by customer. In CY2023, LPG combustion by customers was reported under Scope 1 emissions. This has changed to Scope 3 to align with GHG accounting principles.

Product offset liability	
Emissions intensity per functional unit	4.2464 tCO2-e per tonnes
Emissions intensity per functional unit including uplift factors	N/A
Number of functional units covered by the certification	1,204 tonnes
Total emissions (tCO₂-e) to be offset	5,115

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset unit	Quantity used for this reporting period					Percentage of total units used				
Australian Carbon Credit Units (ACCUs)	2,558					50.01%				
Verified Carbon Units (VCUs)	2,557					49.99%				
Project name	Type of offset unit	Registry	Date retired	Serial number	Vintage	Total quantity retired	Quantity used in previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period	Percentage of total used this reporting period
West Arnhem Land Fire Abatement (WALFA) Project	ACCU	ANREU	14-Apr-25	8,329,202,457 - 8,329,205,014	2020-21	2,558	0	0	2,558	50.01%
Rimba Raya Biodiversity Reserve Project	VCU	Verra Registry	14-Apr-25	9900-157867336-157869892-VCS-VCU-263-VER-ID-14-674-01012018-31122018-1	2018	2,557	0	0	2,557	49.99%
Offset Totals:						5,115	0	0	5,115	100%

Co-benefits

N/A

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)*	NA
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* 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.

APPENDIX A: ADDITIONAL INFORMATION

NA

APPENDIX B: ELECTRICITY SUMMARY

There are two international best-practice methods for calculating electricity emissions – the location-based method and the market-based method. Reporting electricity emissions under both methods is called dual reporting.

Dual reporting of electricity emissions is useful, as it provides different perspectives of the emissions associated with a business's electricity usage.

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.

For this certification, electricity emissions have been set by using the **market-based approach**.

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)	0	0	0%	
GreenPower	236	0	82%	
Climate Active precinct/building (voluntary renewables)	42	0	15%	
Precinct/Building (LRET)	8	0	3%	
Precinct/Building jurisdictional renewables (LGCS surrendered)	0	0	0%	
Electricity products (voluntary renewables)	0	0	0%	
Electricity products (LRET)	0	0	0%	
Electricity products jurisdictional renewables (LGCs surrendered)	0	0	0%	
Jurisdictional renewables (LGCS surrendered)	0	0	0%	
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%	
Large Scale Renewable Energy Target (applied to grid electricity only)	45	0	16%	
Residual Electricity	-44	-40	0%	
Total renewable electricity (grid + non grid)	331	0	115%	
Total grid electricity	287	0	115%	
Total electricity (grid + non grid)	287	0	115%	
Percentage of residual electricity consumption under operational control	100%			
Residual electricity consumption under operational control	-44	-40		
Scope 2	-40	-36		
Scope 3 (includes T&D emissions from consumption under operational control)	-5	-4		
Residual electricity consumption not under operational control	0	0		
Scope 3	0	0		

Total renewables (grid and non-grid)	115.48%
Mandatory	18.48%
Voluntary	97.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO₂-e)	-0.04
Residual scope 3 emissions (t CO₂-e)	0.00
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.00
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.00
Total emissions liability (t CO₂-e)	0.00

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

Location-based approach summary						
Location-based approach	Activity Data (kWh) total	Under operational control			Not under operational control	
Percentage of grid electricity consumption under operational control	100%	(kWh)	Scope 2 Emissions (kgCO ₂ -e)	Scope 3 Emissions (kgCO ₂ -e)	(kWh)	Scope 3 Emissions (kgCO ₂ -e)
ACT	42	42	28	2	0	0
NSW	59	59	15	5	0	0
SA	92	92	72	6	0	0
VIC	94	94	69	14	0	0
QLD	0	0	0	0	0	0
NT	0	0	0	0	0	0
WA	0	0	0	0	0	0
TAS	287	287	185	27	0	0
Grid electricity (scope 2 and 3)	0	0	0	0		
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	0	0	0	0		
QLD	0	0	0	0		
NT	0	0	0	0		
WA	0	0	0	0		
TAS	0	0	0	0		
Non-grid electricity (behind the meter)	287					
Total electricity (grid + non grid)	42	42	28	2	0	0

Residual scope 2 emissions (t CO₂-e)	0.18
Residual scope 3 emissions (t CO₂-e)	0.03
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.16
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	0.03
Total emissions liability	0.18

Note: Electricity emissions reported in this statement relate exclusively to office locations under operational control.

Operations in Climate Active buildings and precincts

Operations in Climate Active buildings and precincts	Electricity consumed in Climate Active certified building/precinct (kWh)	Emissions (kg CO ₂ -e)
Level 29-32, 100 Barangaroo Avenue, Barangaroo NSW 2000	42	0
<i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their building or precinct certification. This electricity consumption is also included in the market based and location-based summary tables. Any electricity that has been sourced as renewable electricity by the building/precinct under the market-based method is outlined as such in the market based summary table.</i>		

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
Water use at corporate sites related to LPG retailing	Immaterial
LPG losses at customer sites	Immaterial. Losses of LPG do not emit greenhouse gases. By assuming all the sales volume are combusted (i.e. no losses at customer sites), we are being conservative.

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**).

N/A

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
	Y	N	N	N	N	
Corporate activities not related to LPG retailing	Y	N	N	N	N	Size: The emissions source is likely to be large compared to other attributable emissions; however it does not become part of this product.



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