



PUBLIC DISCLOSURE STATEMENT

ENERGYAUSTRALIA PTY LTD

**ELECTRICITY AND GAS
PRODUCTS CY2023**

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY	EnergyAustralia Pty Ltd
REPORTING PERIOD	1 January 2023 – 31 December 2023
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><i>Kate Gibson</i></p> <hr/> <p>Kate Gibson Chief Customer Officer Date 11/09/2024</p>



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

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Version: January 2024



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	1,647,181 tCO ₂ -e
CARBON OFFSETS USED	99% CERs, 1% ACCUs
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: EnergyAustralia PTY LTD
TECHNICAL ASSESSMENT	Next technical assessment due: 2025

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2. CERTIFICATION INFORMATION

Description of certification

EnergyAustralia Pty Ltd (ABN 99 086 014 968) offers product level Climate Active certified electricity and gas for customers that have explicitly opted in. This means that we purchase eligible, quality carbon credits to offset the emissions associated with the production of the energy used by these customers in their homes and businesses. To date, EnergyAustralia has carefully selected and bought offsets equal to over 6 million tonnes of greenhouse gas emissions for its residential and business customers. Noting, EnergyAustralia does not use offsets to defer or diminish its efforts to decarbonise its own operations – This important work continues in parallel, with only our funding arrangements for the Tallawarra B power station in NSW require us to purchase ACCUs to offset its Scope 1 emissions.

Product description

We currently offer Go Neutral Electricity and Go Neutral Gas at no extra cost to residential customers and offer Business Carbon Neutral Electricity as part of a bundled cost offering.

For electricity supply emissions offsets, the relevant functional unit is megawatt hours (MWh), with consumption of the product by customers measured as MWh per year.

For gas supply emissions offsets, the relevant functional unit is gigajoules (GJ), with consumption of the product by customers measured in GJ per year. Emissions are calculated from the Australian National Greenhouse Accounts Factors which include all emissions relevant to the production, supply and use of the products.

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.

Diagram of the certification boundary: ELECTRICITY PRODUCT

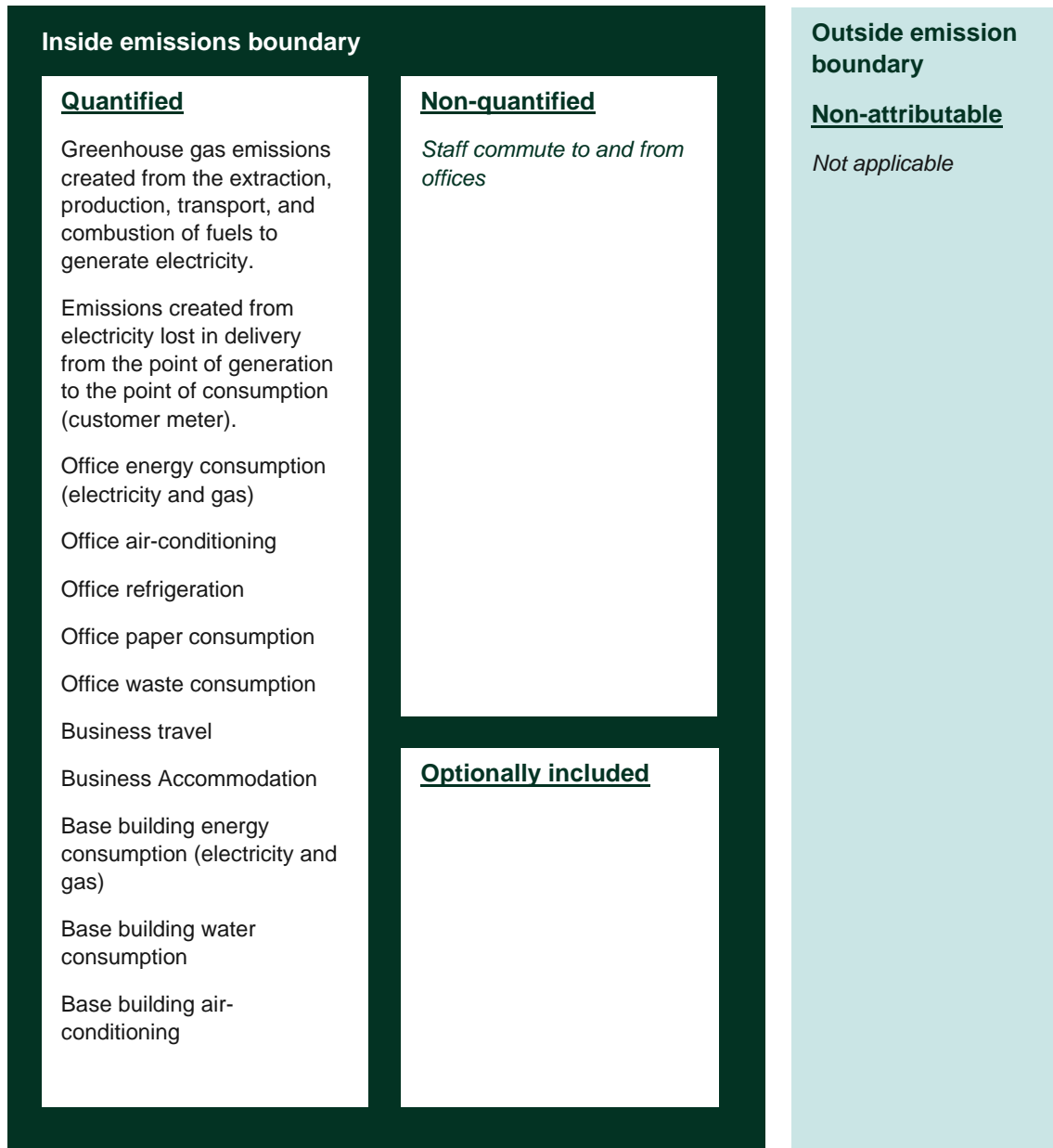
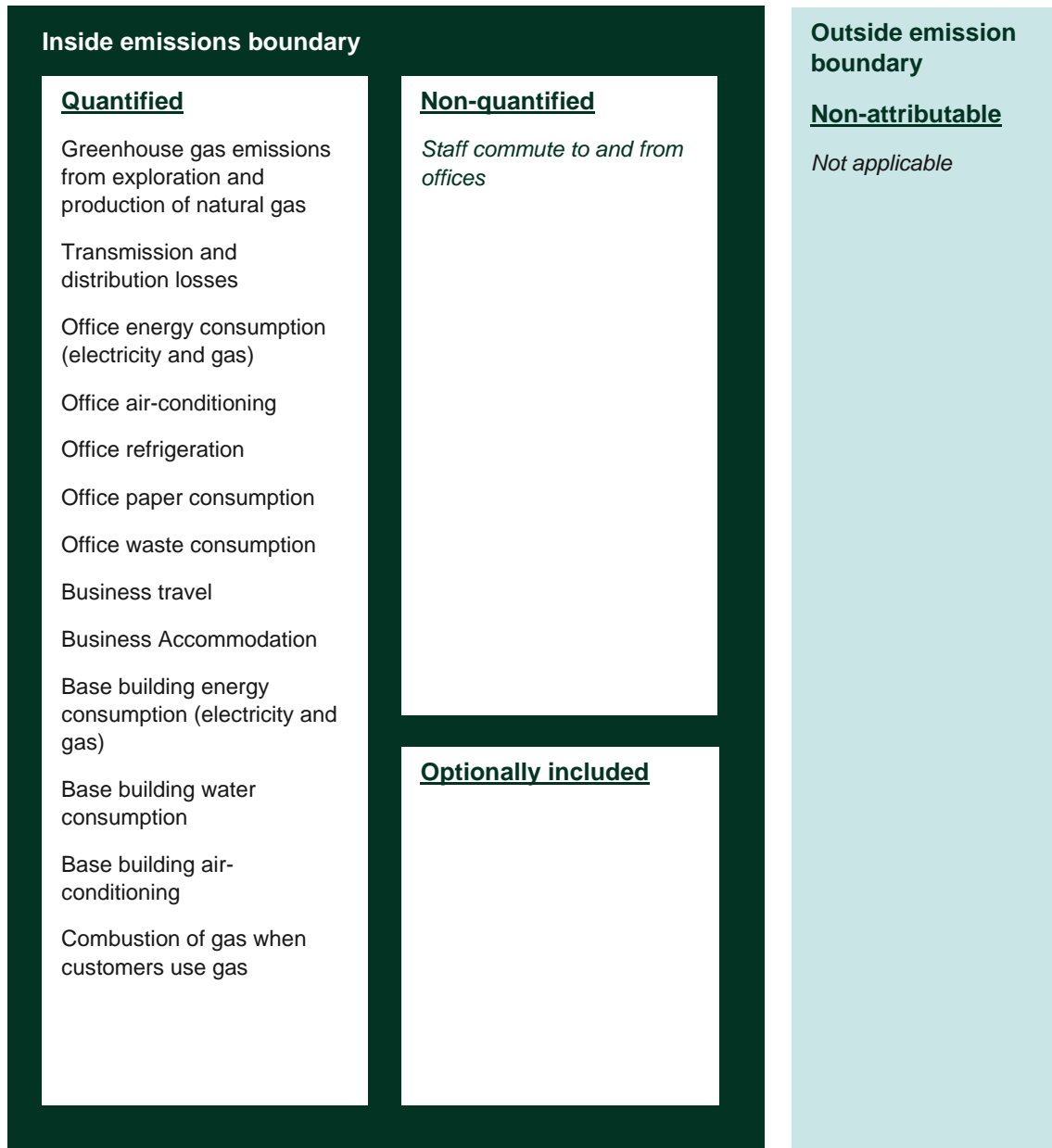
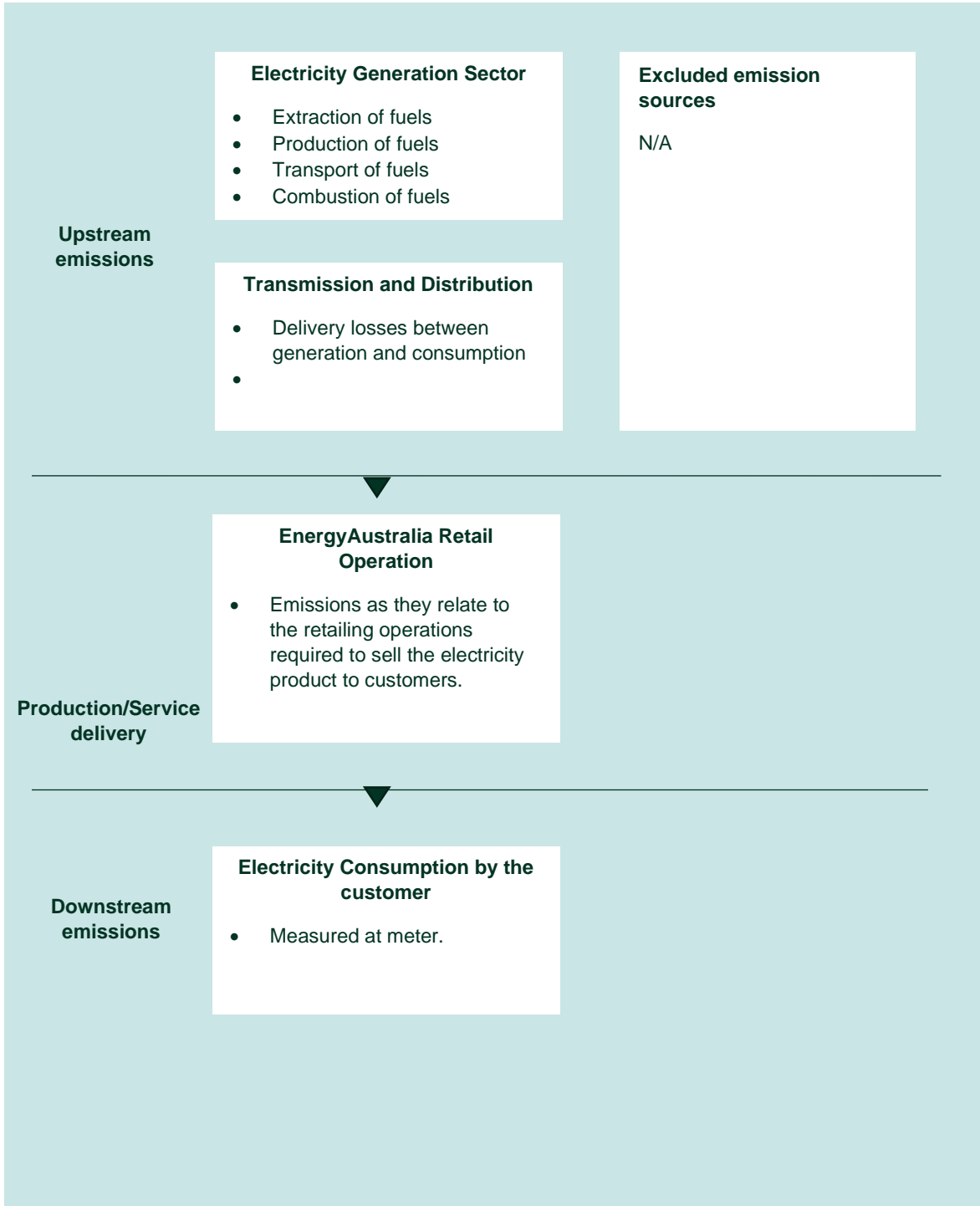


Diagram of the certification boundary: GAS PRODUCT



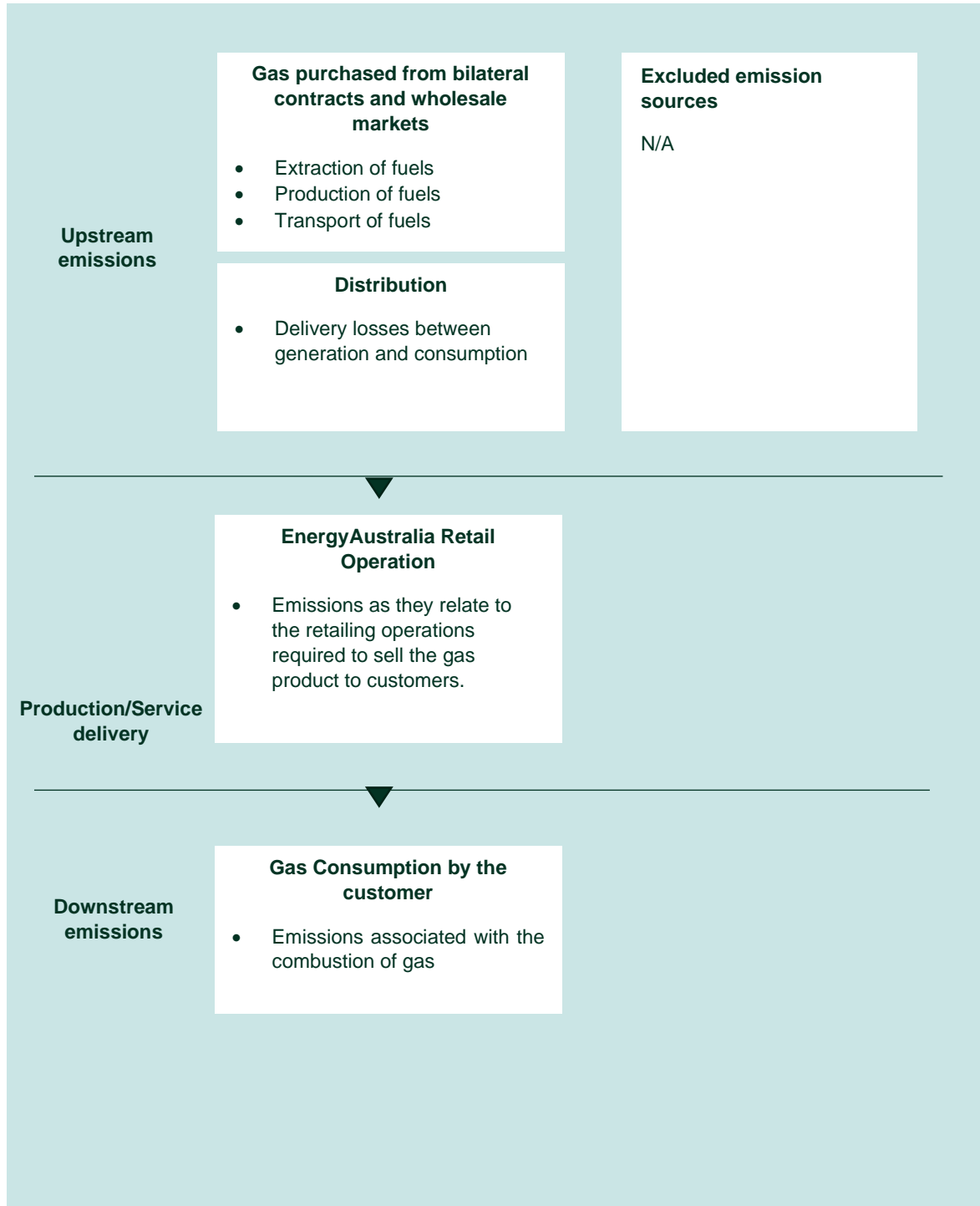
Product process diagram – ELECTRICITY PRODUCT

The following diagram is cradle to grave



Product process diagram - GAS PRODUCT

The following diagram is cradle to grave



4. EMISSIONS REDUCTIONS

Emissions reduction commitments

EnergyAustralia's Climate Transition Action Plan (CTAP) sets out its climate ambition. The inaugural version was released in August 2023 and contains the following key commitments:

- Achieving Net Zero greenhouse gas emissions across Scopes 1 and 2 by 2050, with an ambition to extend this to Scope 3.
- Expand the asset portfolio so that up to 3GW of renewable energy is committed or operational by 2030.
- Work to develop a decarbonisation pathway for Scope 3 emissions by December 2024.
- Transition out of all coal-fired assets by 2040.

Emissions reduction strategy

EnergyAustralia's strategy for meeting the CTAP commitments turns on reducing emissions from its coal-fired generation fleet, growing its renewable generation and storage portfolio, and delivering other customer-focused solutions to ensure reliable, affordable, low-emissions power supply to customers. This includes:

- Closing the Yallourn coal-fired power station in mid-2028 which will reduce EnergyAustralia's Scope 1 emissions by over 60% relative to 2019-20 levels.
- Transitioning the Mount Piper power station to a reserve role which has the potential to cut Scope 1 emissions by approximately 75% from the early to mid-2030s.
- Working with partners to deploy \$5 billion in capital to develop EnergyAustralia's pipeline of electricity and renewable firming assets.
- Continuing to invest in customer solutions, including behind-the-meter initiatives, to make it simpler and easier for customers to decarbonise their energy use.

Emissions reduction actions

Key actions for delivering the emissions reductions in the CTAP over the last year have included:

- Practical completion of the Tallawarra B Power Station, Australia's first gas-peaking power station designed to be gas and hydrogen-capable with total emissions offset over its operational life.
- Commercial operation of Riverina and Darlington Point Batteries as part of a 10-year offtake agreement with Edify Energy.

- Announcement of the development of a 50MW/200MWh battery alongside the Hallett Power Station in South Australia.
- Release of the concept design for the Lake Lyell Pumped Hydro project.

5. EMISSIONS SUMMARY

Emissions over time

The tables below show the annual emissions attributable to the Electricity Product and Gas Product, demonstrating an incremental increase in emissions as the number of customers opting into the products has grown. The reduction in emissions intensity values represents the incremental decarbonisation of the National Electricity Market over this time period.

Emissions since base year – Electricity Product			
		Total tCO ₂ -e	Emissions intensity of the functional unit
Base year ¹ :	2015	22,311,266	
Year 1:	2016 - 17	173,006	1.04
Year 2:	2018	546,171	0.98
Year 3:	2019	879,081	0.96
Year 4:	2020	1,171,125	0.94
Year 5:	2021	1,260,579	0.89
Year 6:	2022	1,405,196	0.82
Current Year:	2023	1,388,135	0.77

Emissions since base year – Gas Product			
		Total tCO ₂ -e	Emissions intensity of the functional unit
Base year:	2017	3,356,409	
Year 1:	2020	29,121	0.05686
Year 2:	2021	116,210	0.05845
Year 3:	2022	220,112	0.05875
Current Year:	2023	259,046	0.05872

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

N/A.

¹ Base year includes greenhouse gas emissions in relation to the full electricity/gas base if all customers were to opt in.

Emissions summary CY2023

Emission source – Electricity Product CY2023	tCO ₂ -e
Electricity purchased from the wholesale market and sold to EA customers - ACT	10,983
Electricity purchased from the wholesale market and sold to EA customers - NSW	782,325
Electricity purchased from the wholesale market and sold to EA customers – QLD	121,382
Electricity purchased from the wholesale market and sold to EA customers - SA	14,976
Electricity purchased from the wholesale market and sold to EA customers - VIC	457,528
GHG emissions from retail operations (scope 1) ²	0.43
GHG emissions from retail operations (scope 2&3) ²	940.22
Attributable emissions (tCO₂-e)	1,388,135

Product offset liability	
Emissions intensity per functional unit	0.77
Emissions intensity per functional unit including uplift factors	N/A
Number of functional units covered by the certification	1,802,048
Total emissions (tCO₂-e) to be offset	1,388,135

² Greenhouse gas emissions attributable to EnergyAustralia's retail operations in relation to Go Neutral electricity sales are estimated based on the analysis of greenhouse gas emissions for EnergyAustralia's retail operations only, undertaken in relation to the base year 2015. The emissions from these retail operations attributable to Go Neutral electricity sales have been estimated based on the total number of electricity and gas accounts and the amount of Go Neutral electricity sales as a proportion of total electricity sales to EnergyAustralia customers. An up-to-date calculation has occurred, however is pending external assurance and review and will be updated as part of future reports.

Emission source – Gas Product CY2023	tCO₂-e
Gas purchased from the wholesale market and sold to EA customers - ACT	2,273
Gas purchased from the wholesale market and sold to EA customers - NSW	82,813
Gas purchased from the wholesale market and sold to EA customers – QLD	-
Gas purchased from the wholesale market and sold to EA customers - SA	5,314
Gas purchased from the wholesale market and sold to EA customers - VIC	168,117
GHG emissions from retail operations (scope 1) ³	0.24
GHG emissions from retail operations (scope 2&3) ³	529.17
Attributable emissions (tCO₂-e)	259,046

Product offset liability	
Emissions intensity per functional unit	0.05872
Emissions intensity per functional unit including uplift factors	N/A
Number of functional units covered by the certification	4,411,312
Total emissions (tCO₂-e) to be offset	259,046

³ Greenhouse gas emissions attributable to EnergyAustralia's retail operations in relation to Go Neutral electricity sales are estimated based on the analysis of greenhouse gas emissions for EnergyAustralia's retail operations only, undertaken in relation to the base year 2015. The emissions from these retail operations attributable to Go Neutral electricity sales have been estimated based on the total number of electricity and gas accounts and the amount of Go Neutral electricity sales as a proportion of total electricity sales to EnergyAustralia customers. An up-to-date calculation has occurred, however is pending external assurance and review and will be updated as part of future reports.

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Australian Carbon Credit Units (ACCUs)	16,437	1
Certified Emissions Reductions (CERs)	1,630,744	99

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 previous reporting periods	Eligible quantity banked for future reporting periods	Eligible quantity used for this reporting period	Percentage of total (%)
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (BR-6573)	CER	ANREU	8/01/2024	125.958.409-125.995.971	2016		37,563	-	-	37,563	2.28
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (BR-6573)	CER	ANREU	8/01/2024	142.165.735-142.206.595	2017		42,861	-	-	42,861	2.60
Caixa Econômica Federal Solid Waste Management and Carbon Finance	CER	ANREU	8/01/2024	146.056.137-146.113.275	2016		57,139	-	-	57,139	3.47

Project (BR-6573)											
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (BR-6573)	CER	ANREU	8/01/2024	146.113.276-146.134.825	2016		21,550	-	-	21,550	1.31
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (BR-6573)	CER	ANREU	8/01/2024	146.516.368-146.594.817	2017		78,450	-	-	78,450	4.76
CFL lighting scheme – “Bachat Lamp Yojana” (IN-3223)	CER	ANREU	8/01/2024	243.932.284-243.960.900	2016-2017		28,617	-	-	28,617	1.74
Punta Palmeras Wind Power Project (CL-10070)	CER	ANREU	12/10/2022	32.736.564-32.936.563	2015-2019		79,969	21,758	-	58,211	3.53
Punta Palmeras Wind Power Project (CL-10070)	CER	ANREU	8/01/2024	32.736.564-32.936.563	2015-2019		120,031	-	-	120,031	7.29
Wayang Windu Phase 2 Geothermal Power Project (Indo-3193)	CER	ANREU	8/01/2024	34.076.207 - 34.129.206	2015-2017		53,000	-	-	53,000	3.22
Wayang Windu Phase 2 Geothermal Power Project (Indo-3193)	CER	ANREU	8/01/2024	34.023.207 - 34.076.206	2015-2017		53,000	-	-	53,000	3.22

Wayang Windu Phase 2 Geothermal Power Project (Indo-3193)	CER	ANREU	8/01/2024	34.129.207 - 34.183.206	2015-2017		54,000	-	-	54,000	3.28
Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	11/07/2023	5.22067604.2.2.0.8260 - 5.22467603.2.2.0.8260	2014-2018		400,000	-	-	400,000	24.28
Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	13/07/2023	5.22467604.2.2.0.8260 - 5.22867603.2.2.0.8260	2014-2018		400,000	-	-	400,000	24.28
Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	21/07/2023	5.23108143.2.2.0.8260 - 5.23267603.2.2.0.8260	2014-2018		159,461	-	-	159,461	9.68
Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	21/07/2023	5.22867604.2.2.0.8260 - 5.22948628.2.2.0.8260	2014-2018		81,025	-	14,164	66,861	4.06
Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	21/07/2023	5.22948629.2.2.0.8260 - 5.23108142.2.2.0.8260	2014-2018		159,514	-	159,514	-	0.00
Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	13/11/2023	5.23267604.2.2.0.8260 - 5.23267604.2.2.0.8260	2014-2018		1	-	1	-	0.00

Africa Wind and Solar Programme of Activities for South Africa (SA-8260)	CER	CDM	13/11/2023	5.23267605.2.2.0.8260 - 5.24067603.2.2.0.8260	2014- 2018		799,999	-	799,999	-	0.00
Wunambal Gaambera Unguu Fire Project (EOP100641)	ACCU	ANREU	8/01/2024	8.323.901.483 - 8.323.903.480	2020- 2021		1,998	-	1,761	237	0.01
North Kimberley Pastoral Lease Carbon Abatement (EOP100894)	ACCU	ANREU	8/01/2024	8.329.782.173 - 8.329.782.200	2021- 2022		28	0	28	0	0.00
North Kimberley Pastoral Lease Carbon Abatement (EOP100894)	ACCU	ANREU	8/01/2024	8.329.782.818 - 8.329.799.017	2021- 2022		16,200	0	0	16,200	0.98
Total offsets retired this report and used in this report										1,647,181	
Total offsets retired this report and banked for future reports									975,467		

Co-benefits

EnergyAustralia has purchased offset certificates from both Australian and International projects, with the vast majority coming from international sources. Examples of projects and associated co-benefits include:

Wind and Solar, South Africa: Africa Wind and Solar Programme of Activities for South Africa (8260) - The programme of activities involves installing wind and solar projects generating renewable electricity into the national grid across South Africa. The programme increases employment opportunities in the areas where each activity is located, leading to a general increase in local-community income. Equipment suppliers transfer operation and maintenance skills to South African workers. The programme also diversifies sources of electricity generation increasing energy security.

Geothermal, Indonesia: Wayang Windu Phase 2 Geothermal Power Project (3193) – Project activity involves installing an additional 117MW steam turbine and peripheral equipment to Wayang Windu Phase 1 (already delivering 110MW renewable electricity into the national grid). The turbines are driven by steam produced by the Wayang Windu geothermal fields. The project supports energy diversification and conservation programs. Employment of Indonesian employees - provides support for local economic growth through increasing income and business activities.

Landfill Gas, Brazil: Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573) - Project activity involves avoiding methane emissions from municipal waste treated CTR Santa Rosa landfill in Brazil by capturing and burning/using methane generated by the decay of organic waste from the CTR Santa Rosa Sanitary Landfill. The project generates electricity from the combustion of methane and upgrading Landfill Gas and distribute it via the natural gas grid. Santa Rosa CPA proponents invested in training activities enabling staff to implement and manage of the project.

Savanna Burning, Australia: North Kimberley Pastoral Lease Carbon Abatement (EOP100894) - This project involves strategic and planned burning of savanna areas during the early dry season to reduce the risk of late dry season wild fires. The project proponents also run Kimberley Visions a five-year landmark study mapping the occupational history of the Northern Kimberley. It examines shared art styles across northern Australia and explores questions of regionalism and identity. Other projects on this site include Dating of Aboriginal Rock Art

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

N/A

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
Staff Commute	Immaterial

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**).

Emissions Source	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.

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

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

Not Applicable



An Australian Government Initiative

