



PUBLIC DISCLOSURE STATEMENT

ENERGYAUSTRALIA PTY LTD

**ELECTRICITY AND GAS PRODUCTS
CY2020**

Australian Government
Climate Active
Public Disclosure Statement



EnergyAustralia
LIGHT THE WAY



An Australian Government Initiative



NAME OF CERTIFIED ENTITY: EnergyAustralia Pty Ltd

REPORTING PERIOD: 1 January 2020 – 31 December 2020

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.

Signature

A handwritten signature in black ink, appearing to read 'Mark Brownfield'.

Date 17th June 2021

Name of Signatory **Mark Brownfield**

Position of Signatory **Chief Customer Officer**



Australian Government
Department of Industry, Science,
Energy and Resources

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Version number February 2021

1. CARBON NEUTRAL INFORMATION

Description of certification

EnergyAustralia offsets the carbon dioxide emissions associated with the electricity and gas used by residential and business customers that have opted-in to one of our offset offerings. In 2020, more than 10% of our residential customers took the opportunity to receive carbon neutral energy through our program, at no extra cost to them.

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

For carbon neutral gas, the relevant functional unit is gigajoules (GJ), with consumption of the product by customers measured in GJ per year.

Carbon Neutral certification gives confidence to our customers that our program helps them make a positive difference to the environment

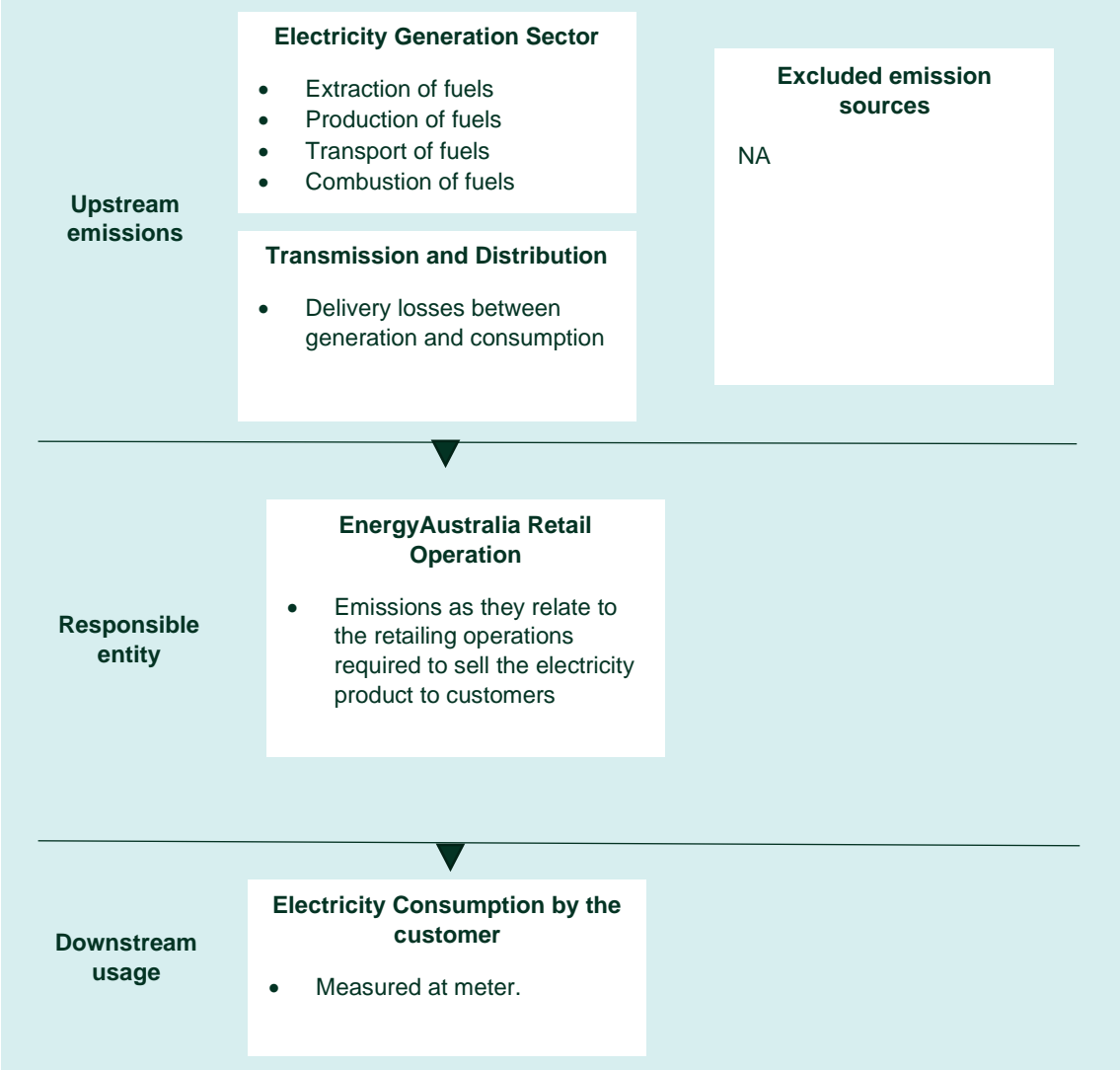
Organisation description

EnergyAustralia is one of Australia's largest energy companies, providing gas and electricity to approximately 2.4 million household and business customer accounts in New South Wales, Victoria, Queensland, South Australia and the Australian Capital Territory. We control a range of generation assets including Victoria's first two utility-scale batteries and over 800MW in wind and solar farm offtakes, and we own over 4,500MW in electricity generation capacity powered by brown coal, black coal and gas.

In March 2021, we announced a plan to close our Yallourn coal-fired power station in mid-2028. Through the transition, we will do the right thing by our workers. We will also support the energy system by building a four-hour, utility-scale battery of 350MW capacity by the end of 2026 - larger than any battery operating in the world today.

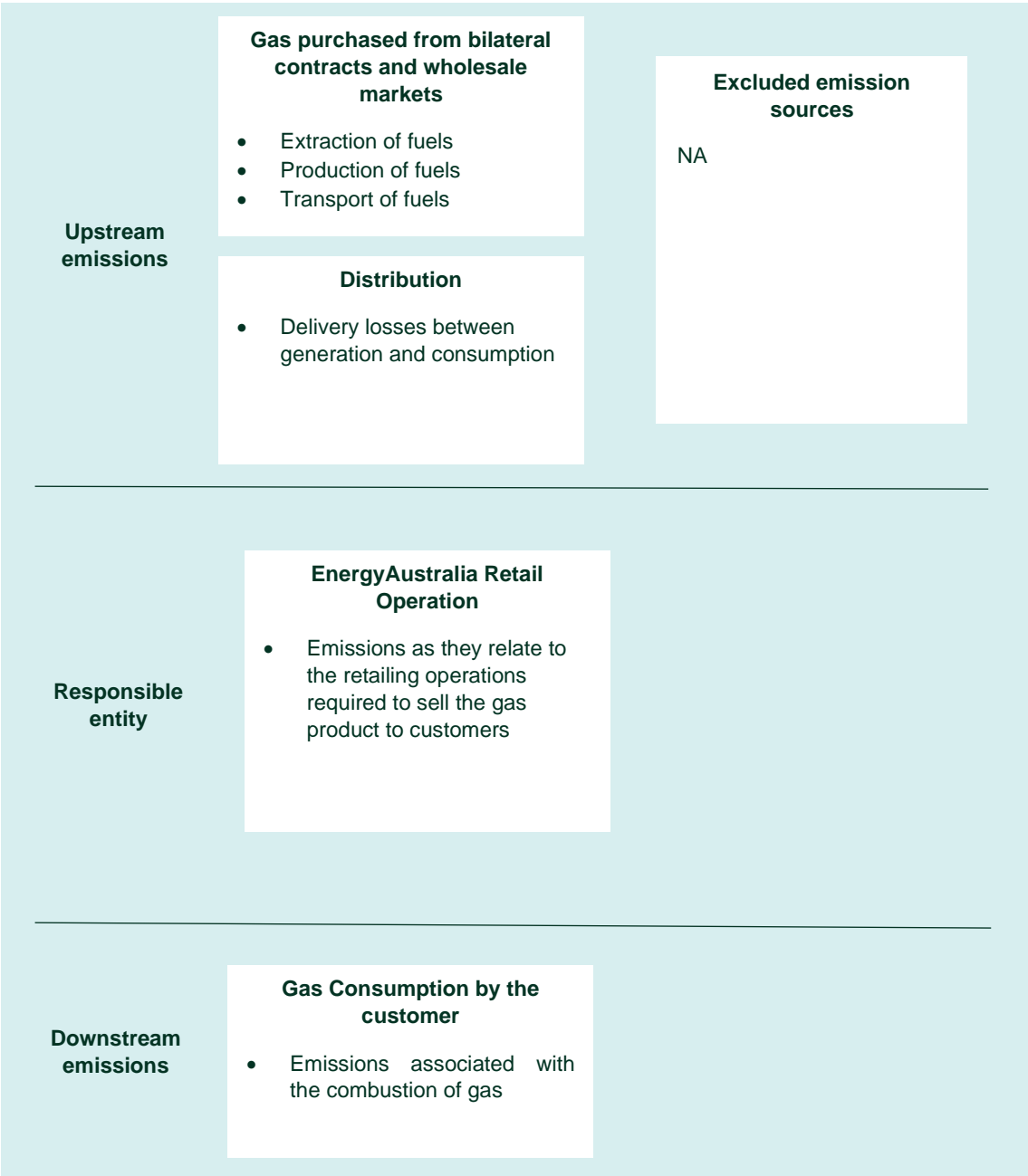
Product/service process diagram – ELECTRICITY PRODUCT

The following diagram is cradle to grave



Product/service process diagram: GAS PRODUCT

The following diagram is cradle to grave



2. EMISSION BOUNDARY

Diagram of the certification boundary: ELECTRICITY PRODUCT

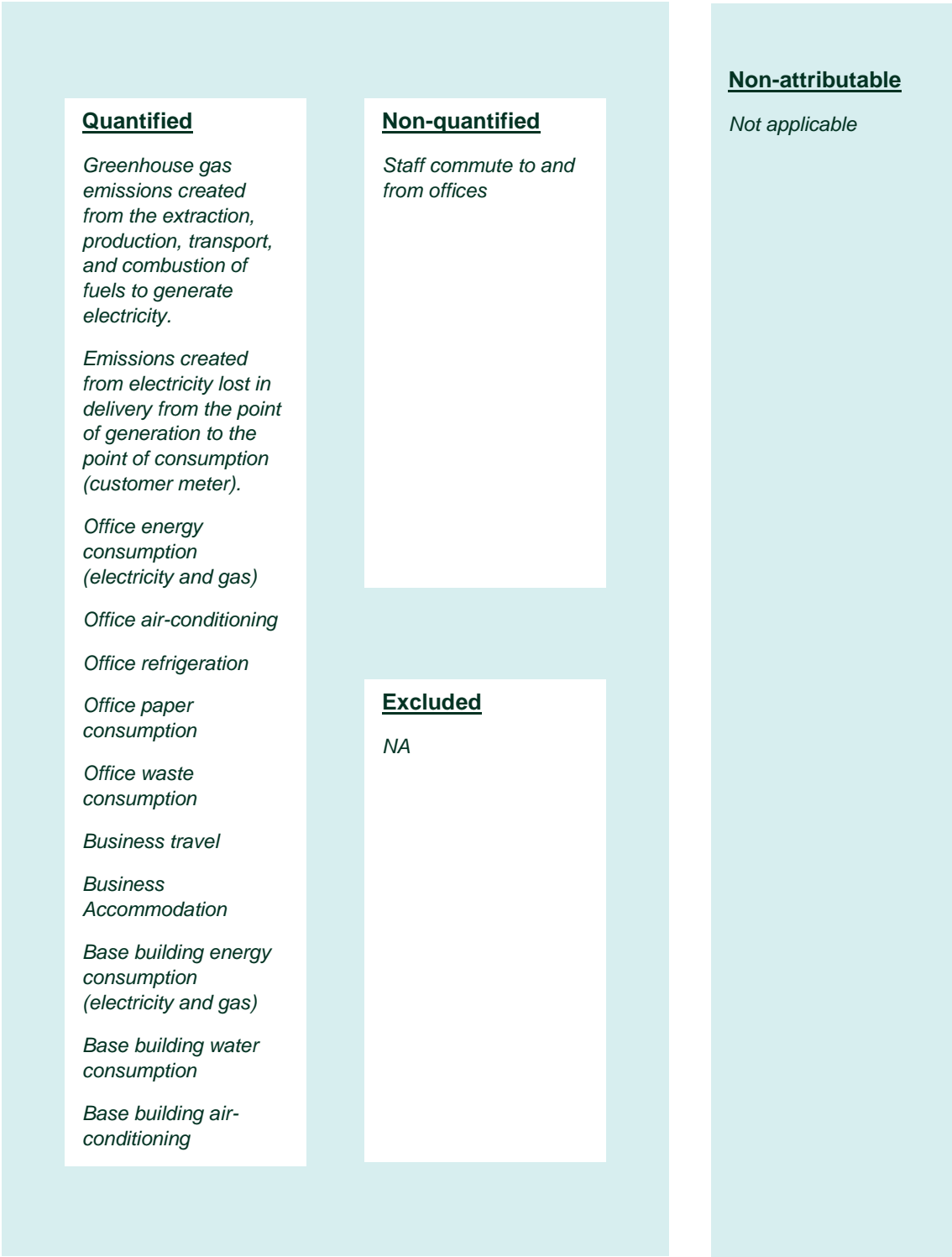
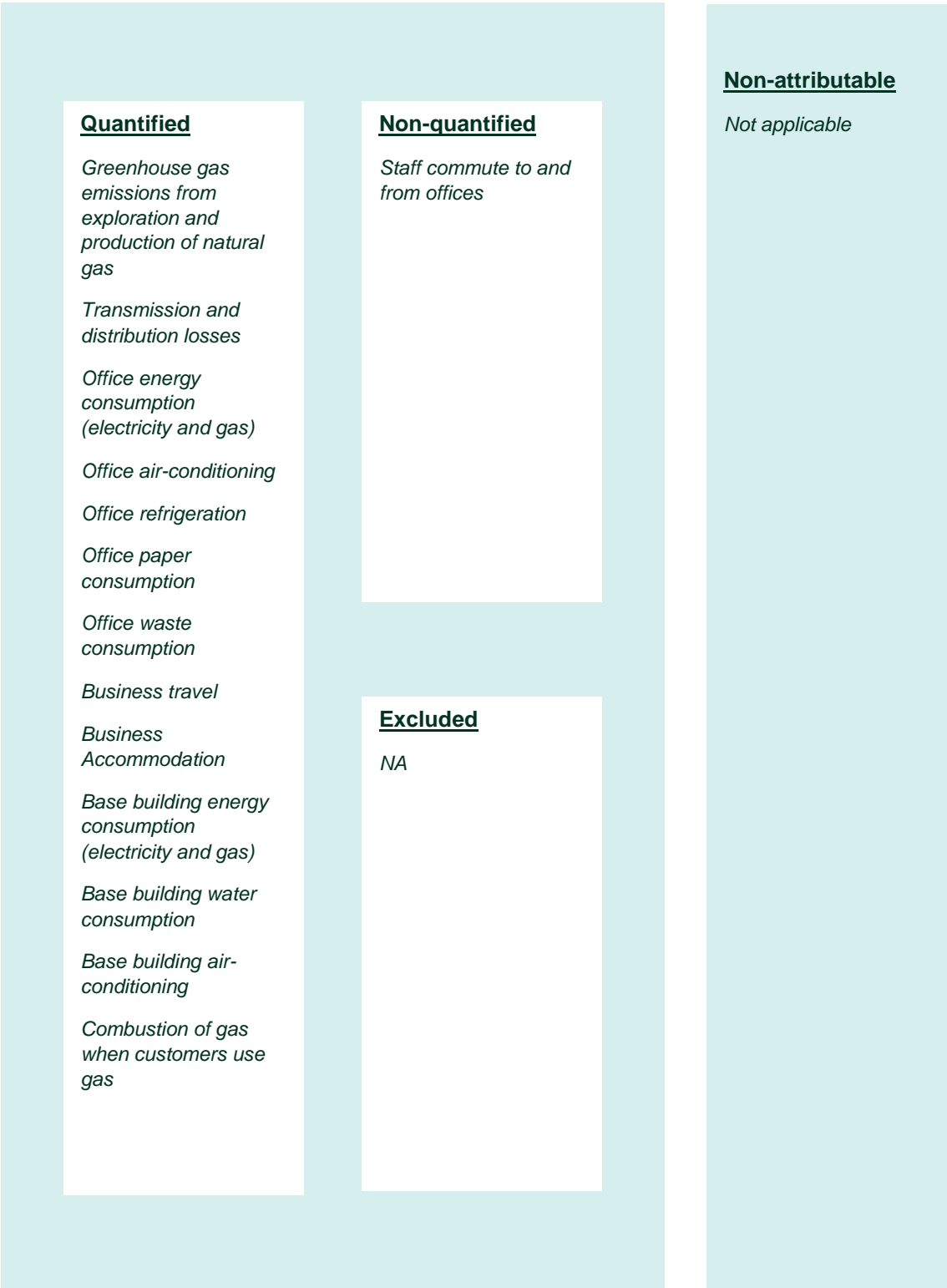


Diagram of the certification boundary: GAS PRODUCT



Attributable non-quantified sources

Staff Commute – not material

Data management plan

Not applicable

Excluded sources (within certification boundary)

No sources were excluded.

Non attributable sources (outside certification boundary)

Not applicable

At the start of 2020, EnergyAustralia set a public objective of being Carbon Neutral by 2050. Our accompanying climate statement can be found at: www.energyaustralia.com.au/Carbon-Neutral-by-2050.

3. EMISSIONS SUMMARY

Emissions reduction strategy

Carbon Neutral by 2050. At the start of 2020, EnergyAustralia set a public objective of being Carbon Neutral by 2050. Our accompanying climate credentials can be found at www.energyaustralia.com.au/Carbon-Neutral-by-2050. Our Purpose is to lead and accelerate the clean energy transformation for all.

Emissions over time: ELECTRICITY PRODUCT

Table 1a

Emissions since base year (CY)					
	Base year ¹ 2015	Year 1: 2016-17	Year 2: 2018	Year 3: 2019	Current year 2020
Total tCO ₂ e	22,311,266	173,006	546,171	879,081	1,171,125

Emissions over time: GAS PRODUCT

Table 1b

Emissions since base year (CY)		
	Base year ¹ 2017	Current year
Total tCO ₂ e	3,356,409	29,121

¹ Base year includes greenhouse gas emissions in relation to the full electricity base.

Emissions reduction actions

On the wholesale side of our business, EnergyAustralia has the rights to more than 800 MW of solar and wind farm power purchase agreements, along with ownership of half the Cathedral Rocks wind farm. Through these long-term agreements, worth almost \$3 billion, we underpin around 6.5 per cent of the large-scale wind and solar projects in Eastern Australia's National Electricity Market.

EnergyAustralia is committed to reducing its carbon dioxide emissions by progressively phasing out coal-fired power, as we work to integrate new supplies of dispatchable generation, without compromising the reliability and affordability of the energy system.

In March 2021, we announced a plan to close our Yallourn coal-fired power station in mid-2028. Yallourn's retirement will lower EnergyAustralia's Scope One carbon dioxide emissions by over 60% relative to today, accelerating our transition to net zero emissions by 2050.

We will not build another coal-fired power plant.

Through our Customer business unit, we offer our customers carbon neutral energy. Since 2016, we have given our customers the opportunity to offset their emissions from home electricity use at no extra cost to them. We expanded our Go Neutral program to gas in May 2020.

We added Business Carbon Neutral in June 2020, helping our business customers offset their electricity emissions and display their carbon credentials.

EnergyAustralia now has over 250,000 of our customers choosing to have their energy use offset, and we have offset 2.8m tonnes of carbon dioxide to date. In addition, we have over 10,000 customer accounts purchasing accredited GreenPower through EnergyAustralia.

Functional units: ELECTRICITY PRODUCT

Table 2a

	Number of functional units
<i>a) Number of functional units sold this period</i>	1,240,682 MWh
<i>b) Number of functional units to be forward offset demonstrating commitment to carbon neutrality (true-up to be conducted at the end of the reporting period)</i>	-

Functional units GAS PRODUCT

Table 2b

	Number of functional units
<i>a) Number of functional units sold this period</i>	512,162 GJ
<i>b) Number of functional units to be forward offset demonstrating commitment to carbon neutrality (true-up to be conducted at the end of the reporting period)</i>	-

Emissions summary (inventory): ELECTRICITY PRODUCT

Table 3a

Emission source category	tonnes CO ₂ -e
Electricity purchased from the wholesale market and sold to EA customers - ACT	8,762
Electricity purchased from the wholesale market and sold to EA customers - NSW	648,612
Electricity purchased from the wholesale market and sold to EA customers - QLD	89,377
Electricity purchased from the wholesale market and sold to EA customers - SA	16,975
Electricity purchased from the wholesale market and sold to EA customers - VIC	406,910
GHG emissions from retail operations (scope 1) ¹	0
GHG emissions from retail operations (scope 2&3) ¹	489
<i>1. Total inventory emissions</i>	<i>1,171,125</i>
<i>a. Number of functional units represented by the inventory emissions</i>	<i>1,240,682</i>
<i>2. Emissions per functional unit (based on the number of functional units represented by the inventory) Total tCO₂-e divided by the number of functional units in 1a.</i>	<i>0.94</i>
<i>3. Carbon footprint (Emissions per functional unit (2)* number of functional units (a or b from table 2))</i>	<i>1,171,125</i>

¹ 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 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.

Emissions summary (inventory): GAS PRODUCT

Table 3b

Emission source category	tonnes CO ₂ -e
Gas purchased from bilateral contract or wholesale market and sold to EA customers - ACT	106
Gas purchased from bilateral contract or wholesale market and sold to EA customers - NSW	3,884
Gas purchased from bilateral contract or wholesale market and sold to EA customers - QLD	-
Gas purchased from bilateral contract or wholesale market and sold to EA customers - SA	236
Gas purchased from bilateral contract or wholesale market and sold to EA customers - VIC	24,850
GHG emissions from retail operations (scope 1) ²	0
GHG emissions from retail operations (scope 2&3) ²	46
<i>1. Total inventory emissions</i>	29,121
<i>a. Number of functional units represented by the inventory emissions</i>	512,162
<i>2. Emissions per functional unit (based on the number of functional units represented by the inventory) Total tCO₂-e divided by the number of functional units in 1a.</i>	0.05686
<i>3. Carbon footprint (Emissions per functional unit (2)* number of functional units (a or b from table 2))</i>	29,121

Uplift factors

Not applicable

Carbon neutral products

Not applicable

² Greenhouse gas emissions attributable to EnergyAustralia's retail operations in relation to Go Neutral gas sales are estimated based on the analysis of greenhouse gas emissions for EnergyAustralia's retail operations undertaken in relation to the base year 2015. The emissions from these retail operations attributable to Go Neutral gas sales have been estimated based on the total number of electricity and gas accounts and the amount of Go Neutral gas sales as a proportion of total gas sales to EnergyAustralia customers.

4. CARBON OFFSETS

Offsets strategy

Offset purchasing strategy: arrears

1. Total offsets previously forward purchased and banked for this report	
2. Total emissions liability to offset for this report	1,200,246 tCO ₂ e for current year Additional 3,148 tCO ₂ e true-up for prior years where error identified
3. Net offset balance for this reporting period	1,203,394 tCO ₂ e
4. Total offsets to be forward purchased to offset the next reporting period	
5. Total offsets required for this report	1,203,394 tCO ₂ e

Co-benefits

EnergyAustralia has purchased certificates for projects from both Australian and International projects (the majority). Projects include Caixa Econonimca Federal Solid Waste Management and Carbon Finance Project, Urisino Regenerative Ecosystem Project and the ALFA (NT) Savanna Fire Management Project. The ALFA (NT) Savanna Fire Management Project involves the application of strategic, lower intensity early dry season fire management to reduce the risk and extent of higher intensity fires that occur mostly in the late dry season. The Indigenous Ranger groups formed the entity Arnhem Land Fire Abatement (NT) Ltd. ALFA (NT) Ltd is a company owned exclusively by Aboriginal people with custodial responsibility for those parts of Arnhem Land under active bushfire management.

Offsets summary

Proof of cancellation of offset units

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	Eligible Quantity (TCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim
Enercon Wind Farms in Karnataka Bundled Project – 30.40 MW (UN 1291)	CER	CDM	26/11/2020	IN-5-202450332-2-2-0-1291 - IN-5-202510383-2-2-0-1291 https://cdm.unfccc.int/Projects/DB/SGS-UKL1187092432.51	2013,14	60,052			60,052
Enercon Wind Farms in Karnataka Bundled Project – 30.40 MW (UN 1291)	CER	CDM	26/11/2020	IN-5-216529969-2-2-0-1291 - IN-5-216590274-2-2-0-1291 https://cdm.unfccc.int/Projects/DB/SGS-UKL1187092432.51	2014,15	60,306			60,306
Enercon Wind Farms in Karnataka Bundled Project – 30.40 MW (UN 1291)	CER	CDM	26/11/2020	IN-5-243692479-2-2-0-1291 - IN-5-243766646-2-2-0-1291 https://cdm.unfccc.int/Projects/DB/SGS-UKL1187092432.51	2015,16,17	74,168			74,168
Bundled wind energy power projects (2004 policy) in Rajasthan (UN 1166)	CER	CDM	26/11/2020	IN-5-200327662-2-2-0-1166 - IN-5-200358370-2-2-0-1166 https://cdm.unfccc.int/Projects/DB/SGS-UKL1181723770.26	2013,14	30,709			30,709
Bundled wind energy power	CER	CDM	26/11/2020	IN-5-242805058-2-2-0-1166 - IN-5-242877121-2-	2014,15,	72,064			72,064

projects (2004 policy) in Rajasthan (UN 1166)				2-0-1166 https://cdm.unfccc.int/Projects/DB/SGS-UKL1181723770.26	16,17				
20 MW Enercon Wind farms (SAI) Pvt. Limited in Maharashtra (UN 3854)	CER	CDM	26/11/2020	IN-5-241870205-2-2-0-3854 - IN-5-241970926-2-2-0-3854 https://cdm.unfccc.int/Projects/DB/DNV-CUK1279516994.31	2013,14,15,16,17	100,722			100,722
Tungabhadra wind power project in Karnataka (UN 1268)	CER	CDM	26/11/2020	IN-5-196673682-2-2-0-1268 - IN-5-196710865-2-2-0-1268 https://cdm.unfccc.int/Projects/DB/DNV-CUK1185867846.4	2013	37,184			37,184
Tungabhadra wind power project in Karnataka (UN 1268)	CER	CDM	26/11/2020	IN-5-206532110-2-2-0-1268 - IN-5-206580939-2-2-0-1268 https://cdm.unfccc.int/Projects/DB/DNV-CUK1185867846.4	2013,14	48,830			48,830
Wind Power Project at Tadas, Karnataka (9376)	CER	CDM	10/02/2021	IN-5-219062626-2-2-0-9376 - IN-5-219257635-2-2-0-9376 https://cdm.unfccc.int/Projects/DB/RINA1356708962.81	2013 - 2015	195,010			195,010
Wind Power Project at Vaspeta, Maharashtra (8606)	CER	CDM	10/02/2021	IN-5-211738139-2-2-0-8606 - IN-5-211865939-2-2-0-8606 https://cdm.unfccc.int/Projects/DB/BVQI1354817285.58	2014 - 2015	127,801			127,801
Wind Power Project at Rajkot, Gujarat (8095)	CER	CDM	19/02/2021	IN-5-211449727-2-2-0-8095 - IN-5-211529389-2-2-0-8095 https://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1352364786.6	2013 - 2015	79,663			79,663

Wind Energy Project in Gujarat (6484)	CER	CDM	6/01/2021	IN-5-214992919-2-2-0-6484 - IN-5-215082297-2-2-0-6484 https://cdm.unfccc.int/Projects/DB/DNV-CUK1340349635.01	2013-2015	89,379			89,379
Wind Energy Project - Shree Naman Developers, Maharashtra (3238)	CER	ANRUE	15//6/21	209,512,807 - 209,602,806 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2013-2015	90,000			90,000
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	125,995,972 - 125,996,171 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2016	200			200
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	125,996,175 - 125,999,008 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2016	2,834			2,834
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	142,089,972 - 142,161,937 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2017	71,966			71,966
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	116,905,481 - 116,909,430 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2015	3,950			3,950
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	125,859,503 - 125,891,171 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2016	31,669			31,669
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	125,955,972 - 125,956,171 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2016	200			200
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	125,955,522 - 125,955,971 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2016	450			450

Carbon Finance Project (6573)				REU/Data-and-information					
Caixa Econômica Federal Solid Waste Management and Carbon Finance Project (6573)	CER	ANRUE	15//6/21	125,956,172 - 125,958,408 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2016	2,237			2,237
Arnhem Land Fire Abatement (WALFA) Project EOP100945	ACCU	ANRUE	15//6/21	3,769,447,880 - 3,769,453,869 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2017-2018	5,990			5,990
Piccaninny Plains Carbon Abatement EOP100549	ACCU	ANRUE	15//6/21	3,800,975,277 - 3,800,986,918 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2019-2020	11,642			11,642
Wongalara Carbon Abatement ERF103013	ACCU	ANRUE	15//6/21	3,800,988,799 - 3,800,993,286 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2019-2020	4,488			4,488
Urisino Regenerative Ecosystem Project EOP100637	ACCU	ANRUE	15//6/21	3,655,189,087 - 3,655,190,966 http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information	2014-2015	1,880			1,880
Total offsets retired this report and used in this report									1,203,394
Total offsets retired this report and banked for future reports									0

5. USE OF TRADE MARK

Table 7

Description where trademark used	Logo type
Marketing and related material associated with the promotion of the carbon neutral electricity/gas product including website.	Certified Product

6. ADDITIONAL INFORMATION

Not Applicable

APPENDIX 1

Non-attributable emissions for products and services

Not applicable

APPENDIX 2

Non-quantified emissions for products/services

Please advise which of the reasons applies to each of your non-quantified emissions. You may add rows if required.

Table 9

Non-quantification test				
Relevant-non-quantified emission sources	<i>Immaterial <1% for individual items and no more than 5% collectively</i>	<i>Quantification is not cost effective relative to the size of the emission but uplift applied.</i>	<i>Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.</i>	<i>Initial emissions non-quantified but repairs and replacements quantified</i>
Staff commute	Yes			



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