



PUBLIC DISCLOSURE STATEMENT

AGL ENERGY SERVICES PTY LTD

**PRODUCT CERTIFICATION
LIGHTING
CY2021**

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY: AGL Energy Services Pty Limited

PROJECTION PERIOD: Projection for 1 January 2021 – 31 December 2021

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

Date 26/05/21

Name of Signatory

Ryan Warburton

Position of Signatory

General Manager, Commercial & Industrial Customers



Australian Government

**Department of Industry, Science,
Energy and Resources**

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1. CARBON NEUTRAL INFORMATION

Description of certification

This public disclosure statement supports the carbon neutral product certification for the supply and installation of **Energy Efficient Light Fixtures** provided by **AGL Energy Services Pty Ltd** and its contractor partners. This includes the Life Cycle Assessment of the Light Fixture Product and quantification of Scope 1, 2 and 3 emissions associated with the retail operations component.

In June 2021, AGL Energy Services Pty Ltd launched a certified Carbon Neutral Energy Efficient Light Fixture product to all small business and commercial and industrial (C&I) customers of AGL.

The first year of certification is CY2021 using actual data from CY2020 as a base year. The base year of CY2020 is used as a comparable and a reasonable 'base' for the forecasted first year (CY2021).

Scope

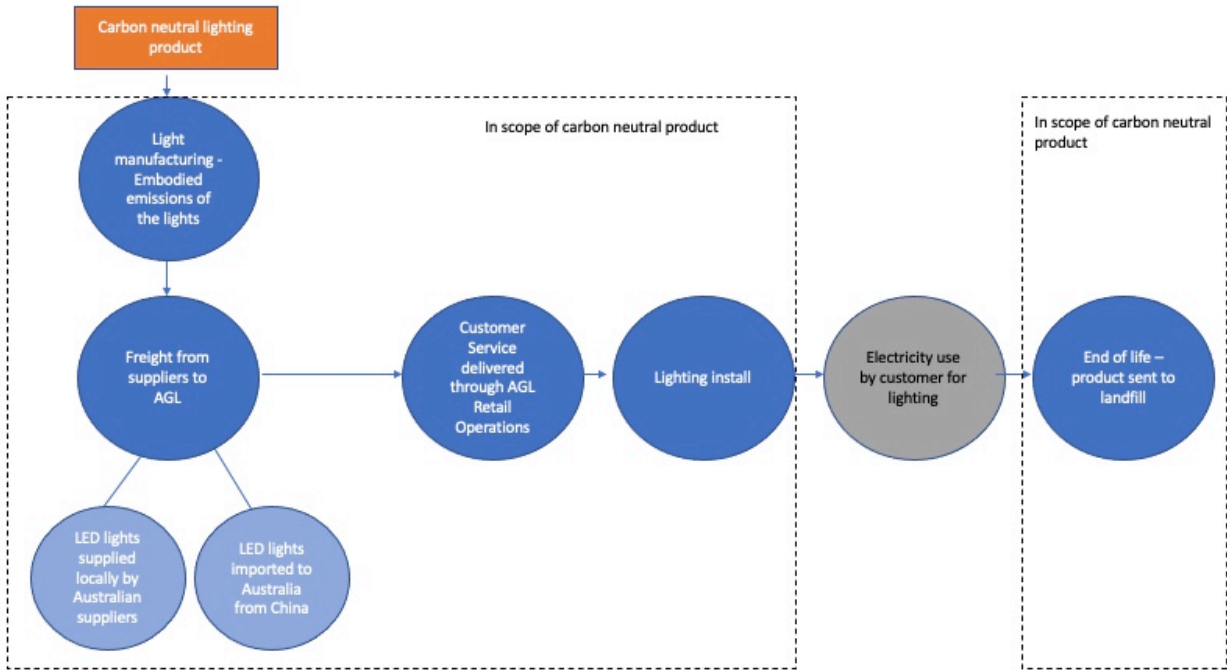
'Energy Efficient Light Fixture product' includes all components and services associated with the supply and installation of Energy Efficient Light Fixtures sold by AGL Energy Services Pty Ltd (directly or via 3rd party contractor).

Functional unit

A functional unit of 'kg CO₂e per Watt' will be used as a quantifiable reference to the associated greenhouse gas emissions of an Energy Efficient Light Fixture product.

"Climate Active certification makes it easier for consumers to make a conscious decision to identify and choose electricity, gas, energy efficient solutions and telecommunications products that are making a difference."

Lighting Product Process Map



Organisation description

AGL Energy Services Pty Ltd is a subsidiary group of **AGL Energy Limited**, a leading integrated essential service provider, with a proud 184-year history of innovation and a passionate belief in progress – human and technological.

About AGL Energy Limited

As at the date of this Public Disclosure Statement (PDS), **AGL Energy Limited** operates Australia's largest electricity generation portfolio, with an operated generation capacity of 11,080 MW (31 Dec 2020), which accounts for approximately 20% of the total generation capacity within Australia's National Electricity Market.

AGL Energy Limited delivers 4.5 million¹ gas, electricity, and telecommunications services to our residential, small and large business, and wholesale customers across Australia. We are also the country's largest publicly-listed operator of renewable energy.

As a company, AGL is evolving to become a leading multi-product energy retailer across energy, data and telecommunications.

AGL Energy Limited includes related corporate bodies such as:

- New energy providers - **AGL Energy Services Pty Ltd** for which this certification relates, sells energy solutions to residential and business customers including solar, battery storage, stand-alone power systems, energy efficient lighting and Power Factor Correction. AGL Energy Services Pty Ltd operates in all Australian states and territories and offers an end-to-end design, project management and installation service for all energy solutions sold.
- Energy retailers – **AGL Sales Pty Limited; AGL South Australia Pty Limited; AGL Retail Energy Limited** (“AGL energy retail entities”), **Powerdirect Pty Ltd, Perth Energy Pty Ltd**
 - **AGL energy retail entities** provides gas and electricity services to residential and business customers across New South Wales, Victoria, South Australia, Queensland and Western Australia. Offering a range of energy plans to suit varying preferences, customers can sign up to our products and services via our digital channels (AGL Website, AGL App, My Account) or by calling the AGL Contact Centre.
 - **Powerdirect Pty Ltd** provides electricity services in Adelaide, New South Wales, South East Queensland, and Victoria.
 - **Perth Energy Pty Ltd** operates contestable gas and electricity customers connected to the Western Power and ATCO gas networks in Western Australia including regional areas such as Albany, Geraldton and Kalgoorlie.

¹ Services to customers number is as at 31 December 2020 and includes Click Energy and 100% of approximately 300,000 services to customers of ActewAGL, in which AGL owns a 50% equity stake of the retail operations.

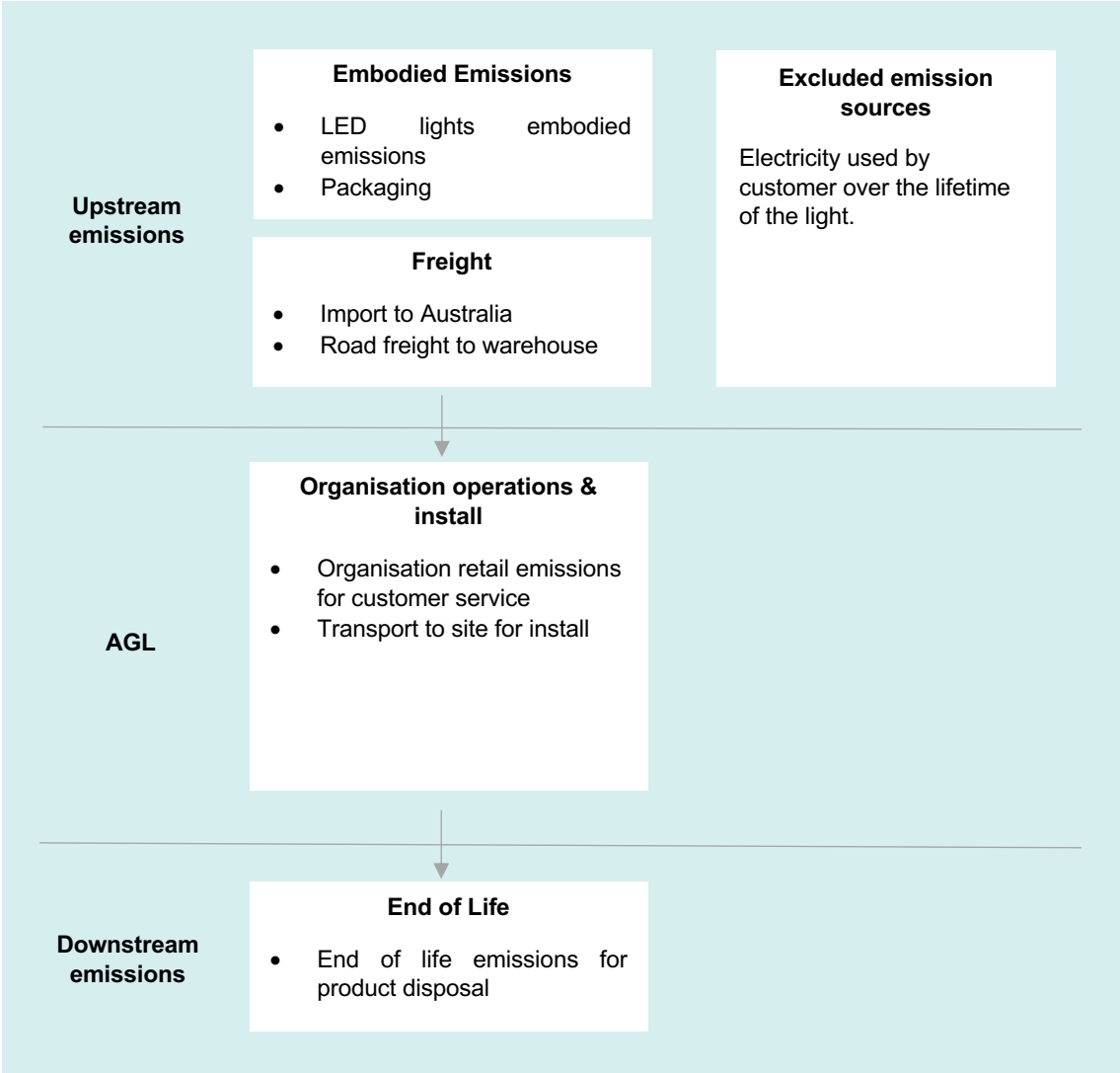
- Data and Telecommunications providers – **Southern Phone Company Limited**. Telecommunications service provider Southern Phone Company Limited, which trades as **AGL Telecommunications** and as **Southern Phone**, sells telecommunications products under both the AGL Telecommunications and Southern Phone brands.
 - **Southern Phone** is one of the largest providers of fixed line, mobile and Internet communications services in regional Australia. Formed in 2002 with a vision to provide regional communities with affordable telecommunications services, Southern Phone now serves a national customer base, provides more than 250 jobs across its head office in Moruya, New South Wales, and its Bendigo office in regional Victoria.
 - **AGL Telecommunications** launched its first telecommunications products, offering Internet services in November 2020, followed by mobile SIM plans in February 2021.

On 30 March 2021, AGL Energy Limited [announced](#) its plans to pursue a structural separation, by creating two new energy businesses focused on executing distinct strategies. One will be a leading multi-product energy retailer, and the other will focus on electricity generation, supporting the economy as the energy market evolves.

On 9 March 2021, AGL also [announced](#) it would acquire two of Australia's largest commercial solar businesses, **Epho** and **Solgen Energy Group** (from Anchorage Capital Partners), both market leading commercial and industrial solar businesses. Further detail on the separation and acquisition progress will be announced throughout 2021.

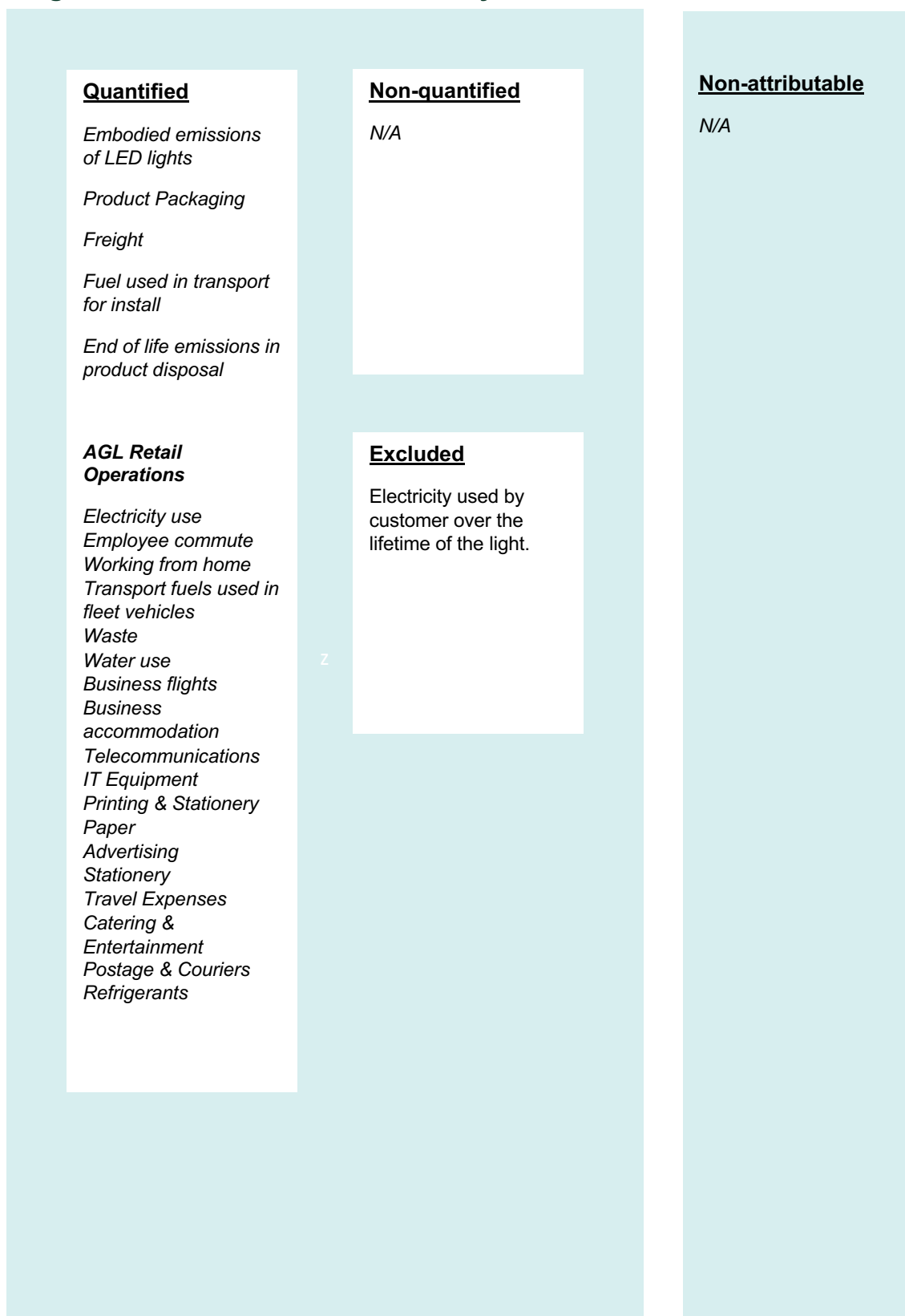
Product/service process diagram

The following diagram is cradle to grave. Cradle to grave is a technique to assess the environmental impacts associated with all stages of a product's life, including upstream emissions, organizational emissions and downstream emissions.



2. EMISSION BOUNDARY

Diagram of the certification boundary



Attributable non-quantified sources

- Not applicable

Data management plan

- Not applicable

Excluded sources (within certification boundary)

Electricity used by customers have been excluded on the grounds that:

- data cannot be collected of electricity usage as these businesses may not be AGL electricity customers
- extrapolated data may not be accurate as there is no way of knowing the type of electricity consumed by these businesses IE these customers could already be sourcing Green Power, Carbon Neutral electricity or offsetting their emissions themselves.
- If the customer is sourcing Green Power or Carbon Neutral electricity, this source is deemed immaterial.

“Climate Active certification makes it easier for consumers to make a conscious decision to identify and choose electricity, gas, energy efficient solutions and telecommunications products that are making a difference.”

Non attributable sources (outside certification boundary)

- Not applicable

3. EMISSIONS SUMMARY

Emissions reduction strategy

AGL is serious about our responsibility to provide sustainable, secure, reliable, and affordable energy. We have a proud heritage as the country's largest publicly-listed operator of renewable energy and operate some of Australia's largest solar and wind farms. We are also the custodians of some of the largest and oldest coal-fired power plants in Australia. As the electricity system changes, we are focused on developing flexible supply to support this transition.

In June 2020, AGL released its updated [Climate Statement](#). This Statement recognises that AGL cannot predict how the energy and political landscape may change, but that the forces of customer demand, how communities act, and how technology evolves will be the determining factors in the pace of energy transition in Australia.

The [Climate Statement](#) includes AGL's target to achieve net zero emissions by 2050 and outlines the next steps in AGL's decarbonisation journey, including commitments to:

1. Offer customers the option of carbon neutral products across all AGL products;
2. Support the evolution of Australia's voluntary carbon markets;
3. Continue to invest in new sources of electricity supply;
4. Responsibly transition AGL's energy portfolio; and
5. Be transparent.

Consistent with the first commitment in the [Climate Statement](#), AGL launched a new Carbon Neutral electricity product on 1 July 2020 and a Carbon Neutral gas product on 25 November 2020... This program will be expanded across all services AGL offers by the end of FY21.

The commitment to build new generation continues AGL's strong track record of investing in renewables and the firming and storage capacity that will support the continued development of renewables. This has recently included AGL acting as co-investor, offtaker and operator in the Coopers Gap and Silverton wind farms, developing and operating the Barker Inlet gas-fired power station, and pursuing a leadership position in the development and operation of both grid-scale and residential batteries.

Additionally, from FY21 AGL introduced carbon transition metrics as a third performance measure in AGL's Long Term Incentive Plan to provide a focus for AGL executives to progress the transition. AGL has taken a market leading position in this regard, being the first ASX50 organisation to link executive long-term variable pay to climate-related goals.

These initiatives are in addition to AGL's 2015 Greenhouse Gas Policy, which committed AGL to not extend the life of its coal-fired power plants. AGL's coal-fired power stations at Bayswater and Loy Yang A ensure energy reliability and security and provide AGL with the financial strength to progress the energy transition. AGL is committed to not extending the life of these coal fired power stations and closing them by no later than 2035 and 2048 respectively. As these assets age and reach the end of their technical life, AGL will continue to run them responsibly and safely to supply affordable and reliable electricity to its customers. AGL will also support our people and local communities through change and remain flexible to how customers,

community and technology shape the pace of the energy transition.

AGL is a leader in the transition to decarbonisation in Australia with four FY24 targets:

- 850 MW grid scale batteries installed and managed by FY24
- 34% of electricity capacity from renewables and clean storage by FY24
- 20% of total revenue from green energy and carbon neutral products by FY24
- 350 MW decentralised assets under orchestration by FY24

AGL is working closely with its strategic supply partners to understand their sustainability strategy, policies and actions. This covers a broad range of sustainability aspects including energy efficiency, emission reductions, environmental management & certification, supply chain procurement and renewable energy sourcing. This also extends beyond sustainability to other social impacts (e.g. slavery, child labour, responsible sourcing, fair work practices).

Functional units

Table 1

	Number of functional units
<i>a) Number of functional units sold this period</i>	67946
<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>	34252.23*

* the number of functional units offset shown at point b) reflects the period the product is in market from launch date till the end of the reporting period.

Emissions summary (inventory)

Table 2

Emission source category	tonnes CO ₂ -e
Lighting Install (LED luminaire embodied emissions, packaging, transport, install, EOL)	246.48
Organisational Emissions for Lighting Install	47.77
1. Total inventory emissions	294.25
2. Emissions per functional unit (based on the number of functional units represented by the inventory) Total kg CO ₂ -e divided by the number of functional units in table 1.	4.33
3. Carbon footprint (Emissions per functional unit (2)* number of functional units (a or b from table 2))	148.34

Uplift factors

N/A

Carbon neutral products

The services provided by Pangolin Associates in preparing this inventory are carbon neutral.

4. CARBON OFFSETS

Offset purchasing strategy: forward purchasing

AGL are forward purchasing offsets for CY2021 based on projected emissions and a true-up will occur at the end of the reporting period. If required, additional offsets will be purchased at the end of CY2021.

Table 3

Forward purchasing summary	
1. Total offsets previously forward purchased for this reporting period	0
2. Total offsets required for this reporting period	148
3. Net offset balance for this reporting period	148
4. Total offsets to be forward purchased for next reporting period	0

Offsets summary

Table 4

1. Total offsets required for this report				148					
2. Offsets retired in previous reports and used in this report				0					
3. Net offsets required for this report				148					
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Quantity (tonnes CO2-e)	Quantity used in previous report	Quantity banked for future years	Quantity used in this report
Carbon Conscious Carbon Capture Project 2 (EOP100638)	ACCUs	ANREU	8 April 2021	<u>3,753,705,269 - 3,753,705,298</u> (Refer section 6)	2016/17	30	0	0	30
Ceramic Water Purifiers Project in Cambodia (GS1020)	GSVERs	GSF Registry	8 April 2021	<u>GS1-1-KH-GS1020-16-2019-20065-2600-2717</u>	2019	118	0	0	118
Total offsets retired this report and used in this report								148	
Total offsets retired this report and banked for future reports								0	

Co-benefits

Not all carbon offset units are created equal. There's a wide range of carbon offsets that differ in source, methodology, and price. AGL undertake a rigorous selection process when it comes to the carbon offsets we purchase. The eligible carbon offsets we buy meet the Carbon Neutral Standard integrity requirements set by Climate Active.

There are many different offset methodologies. Some include reforestation, renewable energy, or energy efficiency projects that generate eligible carbon offsets; projects that involve the destruction of certain industrial gases; and projects that involve the capture and destruction of methane from landfills and certain agricultural activities. Many of these projects also provide additional positive environmental and social benefits.

We know that balancing quality and affordability is important to our customers, so we only purchase eligible carbon offsets that meet the integrity requirements under the Climate Active Carbon Neutral Standard, which is backed by the Australian Government.

Carbon offsets we've pre-purchased

We believe that the projects we've chosen will make a real difference. Initially, our pre-purchase obligations have been secured with certificates for the following projects:

Carbon Conscious Capture Project 2 in Western Australia

AGL has pre-purchased and retired Australian Carbon Credit Units (ACCUs) from the Carbon Conscious Capture Project 2, developed by Carbon Conscious Investments Ltd (Carbon Conscious), a member of the Carbon Market Institute and a foundation signatory of the Australian Carbon Industry Code of Conduct.

Carbon Conscious' reforestation of 11,007 hectares of land in Western Australia, sequesters carbon from the atmosphere following the plantation of more than six million native trees on land previously cleared for dryland cropping and grazing.

This region is recognised as significantly over-cleared, and the reforestation is providing protective habitat for native flora and fauna, reducing wind and water erosion and in some cases reducing soil salinity, as well as providing a useful environment for sheep and honey bees.

Ceramic Water Purifiers Project in Cambodia

AGL has pre-purchased and retired Gold Standard Verified Emissions Reductions (GSVERs) from the Ceramic Water Purifiers Project, developed by Hydrologic Social Enterprise Company Ltd, a social enterprise which has a mission to ensure all families in rural Cambodia have access to safe, clean drinking water. The use of water purifiers eliminates the need for wood fuel, therefore reducing the depletion of Cambodia's forest resources, reducing greenhouse gas emissions and improving indoor air pollution.

With the assistance of carbon finance, this project can be economically sustainable and provides a significant improvement in public health and household welfare. This project will provide access to adequate levels of clean drinking water to an estimated 1.7 million people across 312,000 households over seven years. This project directly addresses several of the United Nations Millennium Development Goals (MDGs), including

Goal 4 and 7, and especially to halve, by 2015, the proportion of the population without sustainable access to safe drinking water and basic sanitation. It also integrates the principles of sustainable development into country policies and programs and reverses the loss of environmental resources, reducing child mortality, improving maternal health, combating disease, and ensuring environmental sustainability.

5. USE OF TRADE MARK

Table 5

Description where trademark used	Logo type
Carbon Neutral landing page on AGL website	Certified product
Carbon Neutral customer communications	Certified product
Business Energy Solutions landing page on AGL website	Certified product
Business Energy Solutions customer communications	Certified product

6. ADDITIONAL INFORMATION

Carbon Conscious Carbon Capture Project 2 (EOP100638) – ACCU - Registry transaction record

Transaction ID

AU17994

Current Status

Completed (4)

Status Date

08/04/2021 11:39:50 (AEST)
08/04/2021 01:39:50 (GMT)

Transaction Type

Cancellation (4)

Transaction Initiator

Xie, Chang Zuo

Transaction Approver

Merrington, Jane

Comment

On behalf of AGL for CY2021 Lighting Carbon Neutral Certification under Climate Active

Transferring Account

Account Number

AU-2680

Account Name

AGL Hydro Partnership

Account Holder

AGL HPI Pty Limited

Acquiring Account

Account Number

AU-1068

Account Name

Australia Voluntary Cancellation Account

Account Holder

Commonwealth of Australia

Transaction Blocks

Party	Issue	Transaction Type	Original CP	Current CP	ERF Project ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Yintage	Expiry Date	Serial Range	Quantity
AU	KACCU	Voluntary ACCU Cancellation			EOP100638					2016-17		3,753,705,269 - 3,753,705,298	30

Transaction Status History

Status Date	Status Code
08/04/2021 11:39:50 (AEST) 08/04/2021 01:39:50 (GMT)	Completed (4)
08/04/2021 11:39:50 (AEST) 08/04/2021 01:39:50 (GMT)	Proposed (1)
08/04/2021 11:39:50 (AEST) 08/04/2021 01:39:50 (GMT)	Account Holder Approved (97)
08/04/2021 11:19:51 (AEST) 08/04/2021 01:19:51 (GMT)	Awaiting Account Holder Approval (95)

APPENDIX 1

Non-attributable emissions for products and services

To be deemed attributable an emission must meet two of the five relevance criteria. Non-attributable emissions are detailed below against each of the five criteria.

Table 6

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>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.</i>

N.A.

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 7

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>

N.A.