PUBLIC DISCLOSURE STATEMENT

POWERSHOP AUSTRALIA

PRODUCT CERTIFICATION - ELECTRICITY

CY2020

Australian Government

Climate Active Public Disclosure Statement

An Australian Government Initiative

NAME OF CERTIFIED ENTITY: Powershop Australia

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: Nathan McEwan Date: 27/01/ 2022

Name of Signatory: **Nathan McEwan**

Position of Signatory: **Chief Customer Officer**

Australian Government
Department of Industry, Science, Energy and Resources

1. CARBON NEUTRAL INFORMATION

Description of certification

This Public Disclosure Statement (PDS) supports Powershop's (ABN 41 154 914 075) ongoing accreditation under the Climate Active standard, Carbon Neutral Program that covers Powershop's Carbon Neutral Electricity Product accreditation. It details for the 1 January 2020 to 31 December 2020 period:

- All emissions associated with retailing electricity products to customers;
- how we define and measure those emissions; and
- how we use Verified Carbon Units and Carbon Emissions Reduction certificates to neutralise the impact made by business operations.

"Climate Active accreditation is a clear, independent and transparent way to demonstrate our commitment and authenticity to taking action to protect our climate."

Powershop has prepared this inventory based on the Climate Active standard and its associated guidance documents. Detailed in Meridian Energy Australia's (MEA) Organisation accreditation PDS are emissions attributable to organisational/operational activities of Powershop. Powershop also has a separate accreditation for its gas product accreditation: https://www.climateactive.org.au/buy-climate-active/certified-members/powershop.

Functional Unit

The functional unit for our electricity product is megawatt hours (MWh) of electricity sold per customer per year.

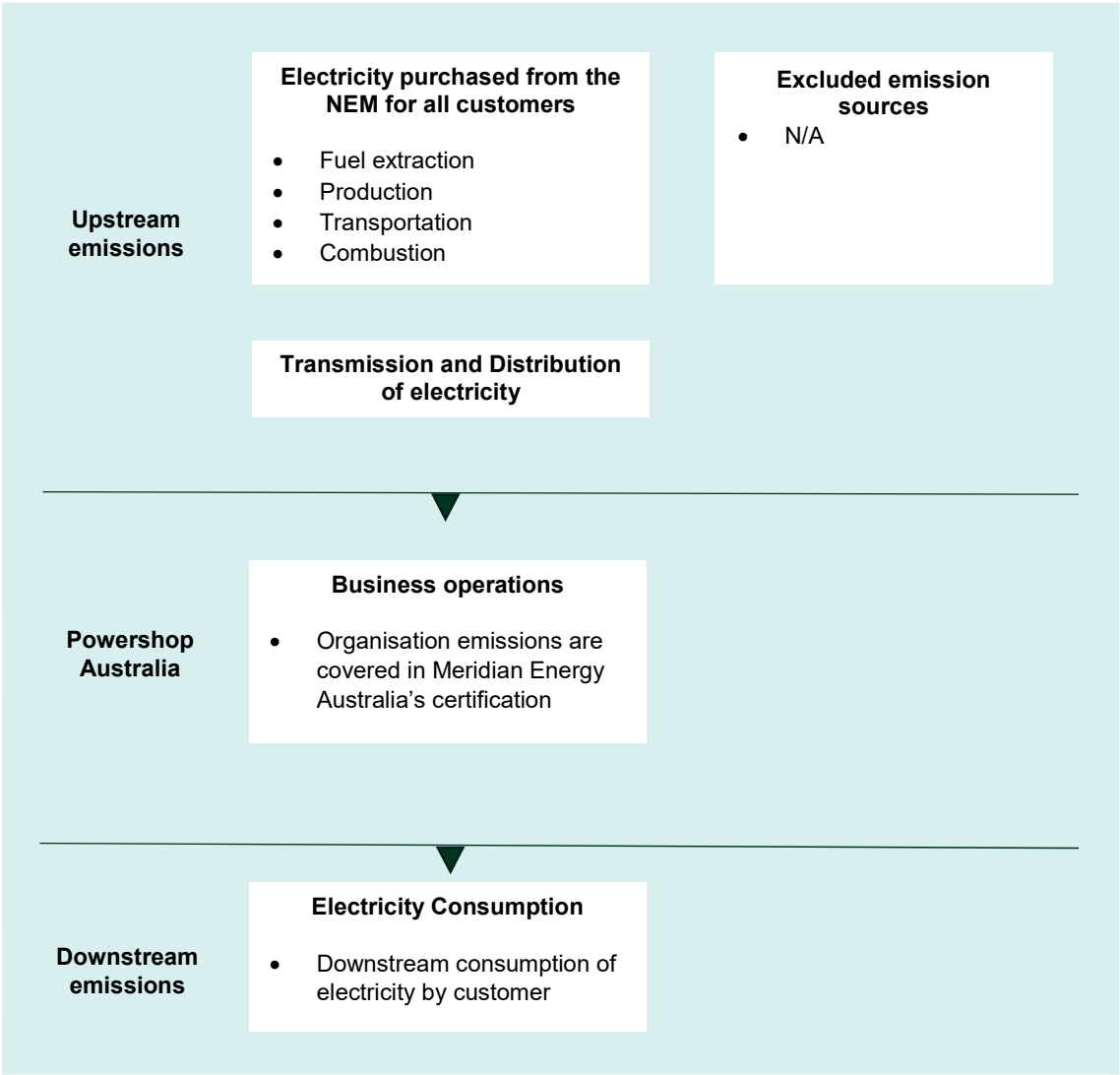
Organisation description

Meridian Energy Australia Pty Ltd (MEA) has a proud heritage of exclusively harnessing our earth's energy in generating affordable electricity through the Mt Millar and Mt Mercer wind farms, as well as the Hume, Burrinjuck and Keepit hydroelectric dams. Combined these assets generate approximately 874 GWh of electricity.

MEA's retail arm Powershop Australia Pty Ltd (Powershop), born sustainable, has led the Australia retail energy market by connecting and educating customers about the climate positive impacts of renewable energy generation and personal carbon footprint reduction via carbon neutral energy products.

Product/service process diagram

The following diagram is cradle to grave



2. EMISSION BOUNDARY

Diagram of the certification boundary

Quantified

Electricity sold to VIC, NSW, SA & QLD Customers

Non-quantified

N/A

Excluded

N/A

Non-attributable

N/A

Attributable non-quantified sources

N/A

Data management plan

N/A

Excluded sources (within certification boundary)

N/A

Non attributable sources (outside certification boundary)

N/A

"The Climate Active product accreditation gives our customer's confidence that their energy usage is 100% offset and carbon neutral, because they are passionate about reducing the impact of their energy usage has on the environment."

3. EMISSIONS SUMMARY

Emissions reduction strategy

Powershop continues to support customers to reduce their emissions attributable to their energy usage via:

1. **Education and Insights**: Our energy App allows customers to track and manage their energy to better understand high usage periods and potentially less efficient appliances. Over the next 5 years we are aiming to grow monthly customer engagement with these tools to >85% of all customers.

2. **Uptake of Green Power**: Continue to leverage the MEA renewable generation assets to encourage customers to purchase green power on a regular basis. Over the next 5 years we expect green power to be a regular component of >30% of all customer's electricity usage.

3. **Support residential rooftop solar**: We currently facilitate introductions of Powershop customers to approved and reputable rooftop solar panel installers. Over the next 5 years, we aim to have >35% of all customers will have rooftop solar panels installed.

4. **Technology**: We are currently developing a residential Virtual Power Plant (VPP) program to assist customers to store and dispatch their rooftop solar power at times that suit their needs. This solution will be made available for trial during in 2021.

Emissions over time

Powershop has experienced a continued growth in emissions attributable to customer electricity usage. Since its base reporting year, Powershop has added over 120,000 new customers.

Table 1

Emissions since base year						
	Base year Year 1: 2014-15	Year 2: 2015-16	Year 3: 2016-17	Year 4: 2017-18 (18 month report)	Year 5: CY2019	Current year Year 6: CY2020
Total tCO_2-e	189,835	356,728	474,485	808,081	556,430	577,953

Emissions reduction actions

Emission reduction actions are detailed in Meridian Energy Australia's Public Disclosure Summary

Functional units

Table 2

	Number of functional units
a) Number of functional units sold this period	***713,763 MWh***

Emissions summary (inventory)

Table 3

Emission source category	**tonnes CO_2-e**
Electricity sold to customers in VIC	320,686
Electricity sold to customers in NSW	196,291
Electricity sold to customers in QLD	53,753
Electricity sold to customers in SA	7,223
1. Total inventory emissions	***577,953***
a. Number of functional units represented by the inventory emissions	***713,763***
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.	**809.73**
3. Carbon footprint (Emissions per functional unit (2) number of functional units (a or b from table 2))*	***577,953***

Uplift factors

N/A

Carbon neutral products

N/A

Electricity summary

Electricity was calculated using a market-based approach.

Market-based approach summary
Table 4

Market-based approach	Activity Data (kWh)	Emissions ($kgCO_2$-e)	Renewable %
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	39,900,300	0	6%
Jurisdictional renewables (LGCs retired)	0	0	0%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	137,827,579	0	19%
Residual Electricity	536,034,831	577,953,033	0%
Total grid electricity	**713,762,710**	**577,953,033**	**25%**
Total Electricity Consumed (grid + non grid)	**713,762,710**	**577,953,033**	**25%**
Electricity renewables	177,727,879	0	
Residual Electricity	536,034,831	577,953,033	
Exported on-site generated electricity	**0**	**0**	
Emission Footprint ($kgCO_2$-e)		577,953,033	

Emission Footprint (tCO_2-e)	**577,953**
LRET renewables	**19.31%**
Voluntary Renewable Electricity	**5.59%**
Total renewables	**24.90%**

Location-based approach summary
Table 5

Location-based approach	Activity Data (kWh)	Emissions ($kgCO_2$-e)
NSW	245,571,280	221,014,152
SA	8,613,669	4,479,108
Vic	394,320,531	429,809,379
Qld	**65,257,230**	**60,689,224**
Grid electricity (scope 2 and 3)	**713,762,710**	**715,991,863**
NSW	0	0
SA	0	0
Vic	0	0
Qld	0	0
Non-grid electricity (Behind the meter)	**0**	**0**
Total Electricity Consumed	**713,762,710**	**715,991,863**

Emission Footprint (tCO_2-e)	**715,992**

4. CARBON OFFSETS

Offsets strategy

Table 6

Offset purchasing strategy: **In arrears**	
1. Total offsets previously forward purchased and banked for this report	*32*
2. Total emissions liability to offset for this report	*577,953*
3. Net offset balance for this reporting period	*577,921*
4. Total offsets to be forward purchased to offset the next reporting period	*98,402*
5. Total offsets required for this report	*676,323*

Co-benefits

Redd Forests Grouped Project: Protection of Tasmanian Native Forest

In addition to its climate change benefits, the project helps to protect and restore Tasmania's valuable native forests, which provide a habitat for a number of endangered species including the wedge-tailed eagle, spotted quoll and the iconic Tasmanian devil. It has also created new employment opportunities in the forestry sector, and ecotourism opportunities through the enhancement of the landscape. Furthermore, the project has provided income diversification and stabilisation for local landowners, thereby enabling them to set the land aside for conservation purposes only, and manage it in a way that encourages natural regeneration of the forest. In addition, landholders are keen to raise awareness of their efforts to protect this unique forest landscape by facilitating visits to the area to see first-hand the benefits this project brings.

Brazil Gas landfill Project

The project activity promotes a significant positive impact towards sustainable development in Brazil. First, while reducing methane emissions, it also minimises the risk of explosions in the landfill site (although the Central de Resíduos do Recreio Landfill's engineering and design specifically aims to avoid these types of accidents). Secondly, given the fact that at the time of the project design initial conceptualisation, initiatives of this type were relatively new in Brazil, at that time it was assumed that the implementation and operation

of the project activity would represent a significant technology transfer. Thirdly, while specialised operators are needed for the project operation, that represents positive impact in terms of employment and capacity-building in the region. The aforementioned elements concur in making the project extremely vital in the context of sustainable development.

While the project activity also encompasses generation of electricity from a non-conventional renewable energy source, the installation and operation of the project's electricity generation facility also represents promotion of additional local job opportunities (for building and operating the project's electricity generation facility). The project's electricity generation facility fuelled by LFG is expected to be used as a relevant technological demonstration initiative in the Southern region of Brazil for the promotion of electricity generation using non-conventional renewable energy source. The use of LFG as fuel for electricity generation is still not common practice in Brazil. It is the intention of the project participant to establish cooperation agreements with local NGOs, academia and community in order to demonstrate and promote this type of initiative.

Egypt Catalytic N_2O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co

The project's aim is to reduce N_2O emissions at the nitric acid plan ABU QIR II, with potential additional environmental and secure social benefits. The catalytic N_2O destruction project activity is expected to reduce 98% of the N_2O emissions that would be emitted without the project activity.

Metro Delhi, India

The aim of the project is to develop a metro system which complements other modes of transport and replaces trips made by conventional or traditional means of transit by metro. The project provides more efficient, faster, safer and more reliable transport means to the local communities. The metro has as main environmental aspect that the resource efficiency of transporting passengers in Delhi is improved i.e. emissions per passenger kilometre are reduced compared to the situation without project.

India Grid connected electricity generation using natural gas by Lanco Kondapalli Power Private Limited

The project contributes towards the sustainable development as per the four indicators prescribed below:

Social well being:

- The project activity has generated employment for the local population during the construction as well as operational phases of the project activity, both direct and indirect.
- It has also provided an opportunity for secondary small scale entrepreneurs' development near the project site, such as small shops, etc. Overall, there has been employment creation as project activity.

Economic well being:

- By creating employment in the area, as described above, the project activity has brought in

economic improvement for the local population.

Environmental well being:

- The project activity avoids use of any other fossil fuels such as coal, lignite, naphtha, diesel, etc., and thus reduces emissions of GHGs, oxides of sulphur and nitrogen, particulate matters and unburned carbon, fly ash (in case of coal and lignite), etc.

Technological well being:

- The project activity is a natural gas based combined cycle power plant and would result in improved power generation efficiency as compared to an open cycle CCGT or coal or lignite based thermal power plant of similar capacity.

Thaa-Nguiuaar Carbon Project Carbon Farming Initiative

The Thaa-Nguiuaar Savanna Burning Project is an early dry season Savanna burning project aimed at reducing late dry season wildfires, and therefore reducing carbon emissions.

Balkanu Cape York Development Corporation Pty Ltd is the project proponent in association with the land holder Poonko Aboriginal Corporation and the Prescribed Body Corporate Thaa-Nguigarr. The project is carried out on Strathgordon Station covering an area of 118,000 hectares.

The project was declared by the Clean Energy Regulator on 20 December 2016. A fire management program was instigated in 2016 and continues to the present. This mitigates wildfire risk, conserves vegetation and animal species, protects wetlands and controls weeds. Burning takes place in the Early Dry Season each year, before the start date of the Late Dry Season of the 1st August. The operations are conducted by Traditional Owners and other staff as required.

The revenue from the sale of the carbon credits obtained enables Traditional Owners to support their landholding obligations and cultural and environmental aspirations for the property.

Offsets summary

Proof of cancellation of offset units

Table 7

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**	**Percentage of total (%)**
Redd Forests Grouped Project: Protection of Tasmanian Native Forest	VCUs	Verra	21 May 2020	4147-176346892-176349601-VCU-016-MER-AU-14-641-16042012-15042013-0	2013	2,710	2,678	0	32	0.01%
Brazil Gas landfill Project	CERs	ANREU	24 Apr 2021	98,009,016 - 98,054,631	2013	45,616	0	0	45,616	7.89%
Egypt Catalytic N_2O destruction project in the tail gas of the Nitric Acid Plant of Abu Qir Fertilizer Co	CERs	ANREU	24 Apr 2021	11,581,048 - 11,619,387 11,528,048 - 11,538,232 11,538,233 - 11,578,047 11,891,052 - 12,032,672	2013	139,964	0	3	139,961	24.22%
Metro Delhi, India	CERs	ANREU	24 Apr 2021	253,144,773 - 253,193,640	2013	48,868	0	0	48,868	8.46%

India Grid connected electricity generation using natural gas by Lanco Kondapalli Power Private Limited	CERs	ANREU	24 Apr 2021	250,042,002 - 250,483,806	2013	441,805	0	98,399	343,406	59.42%
Thaa-Nguiuaar Carbon Project Carbon Farming Initiative	KACCU	ANREU	1 Jun 2021	3,800,967,311 - 3,800,967,380	2019-20	70	0	0	70	0.01%
								Total offsets retired this report and used in this report	577,953	
								Total offsets retired this report and banked for future reports	98,402	

Type of offset units	**Quantity (used for this reporting period claim)**	**Percentage of Total**
Australian Carbon Credit Units (ACCUs)	70	0.01%
Certified Emissions Reductions (CERs)	577,851	99.98%
Verified Carbon Units (VCUs)	32	0.01%

5. USE OF TRADE MARK

Table 8

Description where trademark used	Logo type
Electricity bill	Certified product

6. ADDITIONAL INFORMATION

N/A

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 9

Relevance test					
Non-attributable emission	*The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions*	*The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.*	*Key stakeholders deem the emissions from a particular source are relevant.*	*The responsible entity has the potential to influence the reduction of emissions from a particular source.*	*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.*
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 10

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

APPENDIX 3

Proof of retirements

27 April 2021

To whom it may concern,

Voluntary cancellation of units in ANREU

This letter is confirmation of the voluntary cancellation of units in the Australian National Registry of Emissions Units (ANREU) by ANREU account holder, Carbon Financial Services Pty Ltd (account number AU-2321).

The details of the cancellation is as follows:

Date of transaction	24 April 2021
Transaction ID:	AU18118
Type of units	CER
Number of units	676,250
Serial number range (Associated Kyoto Project ID)	98,009,016 – 98,054,631 (BR-648) (45,616 CER) 11,581,048 – 11,619,387 (EG-490) (38,340 CER) 11,528,048 – 11,538,232 (EG-490) (10,185 CER) 11,538,233 -11,578,047 (EG-490) (39,818 CER) 11,891,052 – 12,032,672 (EG-490) (51,621 CER) 250,042,002 – 250,483,806 (IN-5554) (441,805 CER) 253,144,773 – 253,193,640 (IN-4463) (48,868 CER)
Transaction comment	Powershop electricity product accreditation Climate Active CAL2020

Details of all voluntary cancellations in the ANREU are published on the Clean Energy Regulator's website, http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information.

If you require additional information about the above transactions, please email registry-contact@cleanenergyregulator.gov.au

Yours sincerely,

David O'Toole
ANREU Operations and International Engagement
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Australian Government
Clean Energy Regulator

CLEAN ENERGY REGULATOR

01 June 2021

To whom it may concern,

Voluntary cancellation of units in ANREU

This letter is confirmation of the voluntary cancellation of units in the Australian National Registry of Emissions Units (ANREU) by ANREU account holder, Carbon Financial Services Pty Ltd (account number AU-2321).

The details of the cancellation are as follows:

Date of transaction	01 June 2021
Transaction ID:	AU18578
Type of units	KACCU
Number of units	70
Serial number range	3,800,967,311 – 3,800,967,380
Associated ERF Project Name	Thaa-Nguiuaa Carbon Project
Associated ERF Project ID	ERF109636
Transaction comment	Powershop electricity product accreditation Climate Active CAL2020

Details of all voluntary cancellations in the ANREU are published on the Clean Energy Regulator's website, http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information.

If you require additional information about the above transactions, please email registry-contact@cleanenergyregulator.gov.au.

Yours sincerely,

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