

National Carbon Offset Standard
Carbon Neutral Program
Public Disclosure Summary



An Australian Government Initiative



Powershop Australia Pty Ltd

Public Disclosure Summary

Certification: Electricity Product

Period: 1 July 2017 to 31 December 2018



Australian Government

Department of the Environment

Summary

Meridian Energy Australia Pty Ltd (MEA) has a proud heritage of 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, enough to supply approximately 174,000¹ homes.

MEA's retail arm Powershop Australia Pty Ltd (Powershop) seeks to drive investment in renewable energy through Powershop's Your Community Energy electricity product, partnership with the community owned Hepburn Wind Farm and three Power Purchasing Agreements with renewable energy generators. In 2018 Powershop commenced retailing gas to its Victorian customer base.

In October 2018, Powershop entered into a White Label Agreement with DC Power Co. whereby Powershop provides energy services to customers under the DC Power Co brand including technological support, and customer service functions.²

This Public Disclosure Statement (PDS) supports Powershop's ongoing accreditation under the National Carbon Offset Standard, Carbon Neutral Program that covers Powershop's Carbon Neutral electricity 'Product' accreditation. It details for the July 2017 to December 2018 period:

- the total amount of electricity sold to customers in New South Wales, Queensland and Victoria;
- the total emissions associated with the sale of electricity;
- how we define and measure those emissions; and
- how we use Carbon Emissions Reduction certificates (CERs) to offset the impact made by this product.

The MEA Group (which includes Powershop) operates on a carbon neutral basis for its 'Organisation' accreditation and surrenders CERs to offset its Scope 1, 2 and 3 emissions.

This reporting period

During the FY18 reporting period MEA/ Powershop applied for and were granted permission to change its reporting period from financial year to calendar year. Powershop did this to align National Carbon Offset Standard (NCOS) reporting periods with other reporting periods, primarily GreenPower reporting, which operates on a calendar year basis.

In addition to aligning the aforementioned reporting requirements, Powershop also wanted to align its new gas product accreditation with its existing electricity 'Product' and corporate 'Organisation' accreditations.

¹ <https://www.powershop.com.au/our-generation/>

² <https://www.dcpowerco.com.au/>

Due to this change in reporting periods, this reporting period is one-off 18 month report. Moving forward all three accreditations will be on a 12 month calendar year reporting period.

1. Organisation and Emission details

Table 1: Organisation and Product Information

Organisation Name	Powershop Australia Pty Ltd	
Name of the subject(s) of certification	Powershop Carbon Neutral electricity	
Type of certification (tick all applicable)	<input type="checkbox"/> Organisation <input type="checkbox"/> Part of organisation	<input checked="" type="checkbox"/> Product/service <input type="checkbox"/> Event
Reporting year period	1st July 2017	31 December 2018
Emissions in this reporting year	Total Emissions: 808,081 tCO ₂ -e Total Offsets: 808,379 Net emissions: (298)	
Base year period	1 July 2014	30 June 2015
Emissions in the previous reporting period	474,485 tCO ₂ -e	

2. Description of Organisation Activities

This PDS relates specifically to Powershop’s electricity ‘Product’ that is created by Powershop when it buys electricity from the NEM and on-sells that electricity to its retail customers under the Powershop brand. It is this Product which is accredited under the NCOS Carbon Neutral Program.

Further information about Powershop can be found at www.powershop.com.au

Further information about MEA can be found at www.meridianenergy.com.au.

3. Scope & System Boundary

Powershop retails electricity bought from the NEM to end user customers in Victoria, New South Wales and Queensland. In calculating the GHG emissions from electricity sales to Powershop customers, we have applied Scope 2 and Scope 3 emission factors to the quantity of electricity purchased from the NEM. The boundary of Powershop’s Carbon Neutral electricity Product incorporates GHG emissions associated with extraction, production and transport of fuels, electricity generation, transmission and distribution to Powershop customers.

4. Purchase of GreenPower, Retirement of GreenPower Eligible LGCs and CERs

As detailed in the NCOS for Products & Services document³, a customer’s voluntary GreenPower purchases can be treated as zero-emissions energy if the equivalent amounts of large-scale generation certificates (LGC’s) are voluntarily retired by Powershop. Table 2 details Powershop’s 2017 and 2018 GreenPower surrenders.

To bring Powershop’s net emissions to zero, Powershop purchase and surrender CERs. Detailed in table 3 is information of the CERs surrendered.

Table 2: GreenPower Purchases by Powershop customers

Type	Volume	Unit	tCO ₂ -e	Status
2017 GreenPower Compliance	24,894	MWh	22,654	Surrendered: Mt Mercer -WD00VC17 Mt Mercer - WD00VC17 Gunning Wind Farm -WD00NS07 Mt Millar - WD00SA06 Mt Millar- WD00SA06 Hepburn Community Wind Farm - WD00VC12 Lake Bonney Stage Two Wind Farm - WD00SA07
2018 GreenPower Compliance	19,891	MWh	18,101	Surrendered: Burrinjuck P.S. Unit 3&4 Upgrade -HYMINS03 Mt Mercer - WD00VC17 Hepburn Community Wind Farm - WD00VC12

³ Appendix B: Carbon Accounting Requirements and Guidance, Table 2: Treatment of renewable energy certificates under the National Carbon Offset Standard, page 61

Table 3: CERs Voluntarily Surrendered for Powershop Electricity ‘Product’

Details of CERs voluntarily Surrendered				
Amount	Serial number	Project	Vintage	Date of surrender
176,498	20,886,240 - 21,062,737	Project 3738: Bekasi Power CCPP project in Indonesia Link: www.cdm.unfccc.int/Projects/DB/RWTUV1274877584.17/view	2013	13 May 2019
1	1,001,712,718 - 1,001,712,718	Project 0398: Ningxia Tianjing Shenzhou wind farm Link: https://cdm.unfccc.int/Projects/DB/DNV-CUK1146207502.96/view	2013	13 May 2019
5,000	10,337,073 - 10,342,072	Project 8664: Energy Efficiency Improvement of Mae Moh Power Plant Through Retrofitting Turbines Link: https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1355199535.37/view	2013	13 May 2019
30,565	210,380 - 240,944	Project 1349: Montevideo Landfill Gas Capture and Flare Project Link: https://cdm.unfccc.int/Projects/DB/DNV-CUK1190184595.5/view	2013	13 May 2019
30,502	20,662,738 - 20,693,239	Project 3738: Bekasi Power CCPP project in Indonesia Link: www.cdm.unfccc.int/Projects/DB/RWTUV1274877584.17/view	2013	13 May 2019
25,435	306,834 - 332,268	Project 1349: Montevideo Landfill Gas Capture and Flare Project Link: https://cdm.unfccc.int/Projects/DB/DNV-CUK1190184595.5/view	2013	13 May 2019
20,989	10,316,084 - 10,337,072	Project 8664: Energy Efficiency Improvement of Mae Moh Power Plant Through Retrofitting Turbines Link: https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1355199535.37/view	2013	13 May 2019
100,180	22,602,964 - 22,703,143	Project 0258: Nueva Aldea Biomass Power Plant Phase 1 Link: https://cdm.unfccc.int/Projects/DB/DNV-CUK1138279173.34/view	2013	13 May 2019
124,559	21,685,345 - 21,809,903	Project 0259: Trupan Biomass Power Plant in Chile Link: https://cdm.unfccc.int/Projects/DB/DNV-CUK1138289069.87/view	2013	13 May 2019
126,052	23,092,204 - 23,218,25	Project 0346: Nueva Aldea Biomass Power Plant Phase 2 Link: https://cdm.unfccc.int/Projects/DB/DNV-	2013	13 May 2019

	5	CUK1143329749.99/view		
168,598	8,472,048 - 8,640,645	Project 2467: Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor in Malaysia Link: https://cdm.unfccc.int/Projects/DB/DNV-CUK1238680609.1/view	2013	13 May 2019

Registry: Australian National Registry of Emissions Units (ANREU).

Project information: For detailed information on the project please use the project number (stated in the above 'Project' column) and search at: <https://cdm.unfccc.int/Projects/projsearch.html>

5. Purchase of NCOS Carbon Neutral Products

The purchase of carbon neutral products will be reported at the MEA group level as part of MEA's corporate accreditation.

6. Total Carbon Footprint

The total electricity sold is derived from AEMO invoices.

Powershop lower the total carbon footprint to zero by the voluntary surrender of CERs.

The emissions from the electricity purchased by Powershop and sold to customers are categorised as:

Scope 2 emission i.e.:

Indirect GHG emissions (Scope 2): The release of greenhouse gas as a result of electricity generation, heating, cooling or steam - that is consumed by a facility

Scope 3 emissions i.e.:

Indirect GHG emissions (Scope 3): Emissions are all indirect emissions that occur as a consequence of the activities of the organisation, but occur from sources not owned or controlled by the organisation.

The tCO₂-e produced by the sale of this electricity has been calculated by:

- 1) calculating the volume (MWh) of electricity purchased by Powershop customers in each state (Victoria, Queensland and NSW) as shown on AEMO invoices.
- 2) calculate Powershop customers' voluntary GreenPower uptake. GreenPower eligible LGCs are then surrendered equal to the amount of voluntary GreenPower bought by customers; then
- 3) the total customer GreenPower uptake is then subtracted from the total amount of electricity sold to Powershop customers; then

- 4) Scope 2 emissions are then calculated by multiplying the remainder electricity volume (MWh) by the relevant Emission Factors for each state as shown in the NGA Factors⁴; and
- 5) to calculate Scope 3 emissions Powershop calculate the electricity solar generation from Powershop customers (data derived from Powershop’s billing system) in each state. Solar generation volume is subtracted from the remainder electricity volume. The remainder is then multiplied by the relevant Emission Factors for each state as shown in the NGA Factors⁵;
- 6) The sum of these multiplications is the total of tCO₂-e for the Powershop electricity product; then
- 7) CERs are surrendered to offset the tCO₂ –e impact for Powershop customer electricity usage.

The NGA Factors continue to be an appropriate source for carbon emission calculation because:

- NGA is listed as an appropriate source under National Carbon Offset Standard;
- NGA is published by the Department of Environment, the same entity that regulates NCOS;
- NGA calculates the emissions associated with the production, distribution and consumption of electricity; and
- the methods used to generate the emission factors are consistent with international guidelines and are subject to international expert review each year⁶.

The following tables are a copy of the relevant sections that set out emissions factors in the NGA Factors document.

Table 4: NGA Factors – Table 5: Indirect (scope 2) emission factors for consumption of purchased electricity or loss of electricity from the grid

State or territory	Emission factor Kg CO ₂ -e/kWh
New South Wales and Australian Capital Territory	0.82
Victoria	1.07
Queensland	0.80

NGA Factors - Table 41: Scope 2 and 3 emissions factors - consumption of purchased electricity by end users, Notes section, and 3rd dot point

Scope 3 emission factors for transmission and distribution network operators are lower as they include only emissions attributable to the extraction, production and transport of fuels and not emissions attributable to the electricity lost in transmission and distribution networks. Transmission and distribution network operators should use the scope 2 factors in the table above and the following latest estimate scope 3 factors: **NSW and ACT: 0.08kg CO₂ e/kWh, VIC:**

⁴ NGA Factors 2018, Table 5 : Indirect (scope 2) emission factors for consumption of purchased electricity or loss of electricity from the grid, page 19.

⁵ NGA Factors 2018, Table 41: Scope 2 and 3 emissions factors - consumption of purchased electricity by end users, Notes section, 3rd dot point, page 71.

⁶ This approach was discussed and approved by the Department of Environment on 3 August 2015.

0.09kg CO₂-e/kWh, QLD: 0.09kg CO₂-e/kWh, SA: 0.06kg CO₂-e/kWh, WA: 0.03kg CO₂-e/kWh, TAS: 0.02kg CO₂-e/kWh, NT: 0.04 kg CO₂-e/kWh.

Table 3 - Powershop Net Carbon Footprint

NEM Purchases and GreenPower	1 July 2017 – 31 March 2018	1 April 2018 – 31 December 2018	Totals for 18 month period
NEM purchases			
Electricity purchases VIC (MWh)	242,044	250,693	492,737
Electricity purchases NSW (MWh)	132,516	137,420	269,936
Electricity purchases QLD (MWh)	17,447	19,357	36,804
National Totals (MWh)	392,007	407,470	799,477
GreenPower			
GreenPower Purchases VIC (MWh)	9,255	9,633	18,888
GreenPower Purchases NSW (MWh)	5,850	5,562	11,412
GreenPower Purchases QLD (MWh)	250	638	888
National Totals (MWh)	15,355	15,833	31,188
NEM purchases net of GreenPower			
Electricity Purchases VIC – Net GreenPower LGCs	232,789	241,060	473,849
Electricity Purchases NSW – Net GreenPower LGCs	126,666	131,858	258,524
Electricity Purchases QLD – Net GreenPower LGCs	17,197	18,862	36,059
Net National Totals (MWh)	376,652	391,780	768,432

Table 4 – Emissions to be offset by CERs from the Powershop Retail Electricity Product

Scope	Emission source	Source of activity data	Methodology reference	Emission Factor	Activity data	Unit	t CO ₂ -e
2	Electricity purchased from the NEM and sold to Powershop's Victorian customers (net of GreenPower uptake)	AEMO Finalised Market Invoices - PSA Elec purchased from NEM 010717-311218	<p>NGA Factors - July 2018</p> <p>Table 5: Indirect (scope 2) emission factors for consumption of purchased electricity from the grid - Victoria.</p> <p>Powershop purchased 492,736 MWh of electricity from the NEM to sell to Victorian customers.</p> <p>Powershop sold 18,888 MWh worth of GreenPower electricity to VIC customers during the 18 month reporting period.</p>	<p>kg CO₂-e/KWh</p> <p>1.07</p>	473,849	MWh	507,018
2	Electricity purchased from the NEM and sold to Powershop's NSW customers (net of GreenPower uptake)	AEMO Finalised Market Invoices - PSA Elec purchased from NEM 010717-311218	<p>NGA Factors - July 2018</p> <p>Table 5: Indirect (scope 2) emission factors for consumption of purchased electricity from the grid - NSW.</p> <p>Powershop purchased 269,936 MWh of electricity from the NEM to sell to NSW customers.</p> <p>Powershop sold 11,412 MWh worth of GreenPower electricity to NSW customers during the 18 month reporting period.</p>	<p>kg CO₂-e/KWh</p> <p>0.82</p>	258,524	KWh	211,990

2	Electricity purchased from the NEM and sold to Powershop's QLD customers (net of GreenPower uptake)	AEMO Finalised Market Invoices - PSA Elec purchased from NEM 010717-311218	<p>NGA Factors - July 2018</p> <p>Table 5: Indirect (scope 2) emission factors for consumption of purchased electricity from the grid - QLD.</p> <p>Powershop purchased 36,804 MWh of electricity from the NEM to sell to QLD customers.</p> <p>Powershop sold 888 MWh worth of GreenPower electricity to QLD customers during the 18 month reporting period.</p>	kg CO ₂ -e/KWh 0.80	35,916	MWh	28,733
3	Electricity purchased from the NEM and sold to Powershop's Victorian customers, accounting for emissions at the connection point	AEMO Invoices and Powershop system data	<p>NGA Factors - July 2018</p> <p>Third bullet point in Notes that follow Table 41: Scope 2 and 3 emissions factors - consumption of purchased electricity by end users (pg. 70).</p> <ul style="list-style-type: none"> • Powershop supplied 492,736 MWh of electricity from the NEM to Victorian customers. • Powershop customers exported 36,636 MWh of solar electricity. • Powershop sold 18,888 MWh worth of accredited GreenPower to Victorian customers. <p>Net of solar and GreenPower Powershop supplied 437,212 MWh of electricity.</p>	kg CO ₂ -e/KWh 0.09	437,212	MWh	39,349

3	Electricity purchased from the NEM and sold to Powershop's NSW customers, accounting for emissions at the connection point	AEMO Invoices and Powershop system data	<p>NGA Factors - July 2018</p> <p>Third bullet point in Notes that follow Table 41: Scope 2 and 3 emissions factors - consumption of purchased electricity by end users (pg. 70).</p> <ul style="list-style-type: none"> • Powershop supplied 269,937 MWh of electricity from the NEM to NSW customers. • Powershop customers exported 27,253 MWh of solar electricity. • Powershop sold 11,412 MWh worth of accredited GreenPower to Victorian customers. <p>Net of solar and GreenPower Powershop supplied 231,272 MWh of electricity.</p>	kg CO ₂ -e/KWh 0.08	231,272	MWh	18,502
3	Electricity purchased from the NEM and sold to Powershop's south east Queensland customers, accounting for emissions at the connection point	AEMO Invoices and Powershop system data	<p>NGA Factors - July 2018</p> <p>Third bullet point in Notes that follow Table 41: Scope 2 and 3 emissions factors - consumption of purchased electricity by end users (pg. 70).</p> <ul style="list-style-type: none"> • Powershop supplied 36,804 MWh of electricity from the NEM to south east QLD customers. • Powershop customers exported 8,255 MWh of solar electricity. • Powershop sold 888 MWh worth of accredited GreenPower to Victorian customers. <p>Net of solar and GreenPower Powershop supplied 27,661 MWh of electricity.</p>	kg CO ₂ -e/KWh 0.09	27,661	MWh	2,489
Total tCO₂-e Electricity Product							808,081

7. Carbon Offset Purchases and Retirement for this Reporting Period

Powershop will utilise CERs for offsetting all included Scope 1, Scope 2 and Scope 3 emissions associated with the Powershop Carbon Neutral Electricity Product.

Excess offsets that have been surrendered for this reporting period will be banked for future use. Only NCOS eligible carbon offsets will be used in this activity.

Table 5: Surplus CERs banked for future use

Details of CERs Voluntarily Surrendered				
Amount	Serial numbers	Project	Vintage	Date of surrender
298	10,341,774 – 10,342,072	Project 8664: Energy Efficiency Improvement of Mae Moh Power Plant Through Retrofitting Turbines Link: https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1355199535.37/view	2013	13 May 2019

Registry: Australian National Registry of Emissions Units (ANREU).

Project information: For detailed information on the project please use the project number (stated in the above 'Project' column) and search at:

<https://cdm.unfccc.int/Projects/projsearch.html>

8. Emission Reduction Measures

The MEA business will continue to surrender LGCs to comply with RET obligations and will continue to purchase 100% accredited GreenPower for the office. Both of the measures aim to reduce the emissions associated with the operations of the business.

In addition to offsetting all emissions associated with this organisational boundary, the Powershop retail arm encourages emission reductions through the following measures:

- Powershop’s smartphone application and online portal is available free of charge for all Powershop customers. These tools allow customers to easily track their electricity usage and make informed decisions to reduce their electricity usage and therefore reduce emissions.
- Hepburn Wind is a partnership between Powershop and Hepburn Wind Community Project. The partnership began in late 2016 and means that MEA will assist in the management of the day-to-day operations of Hepburn Wind’s two wind turbines. Powershop will also facilitate Hepburn Wind’s interaction with the NEM enabling Hepburn Wind to sell electricity and Renewable Energy Certificates, delivering value to community shareholders.
- Your Community Energy electricity product is a power pack available in Powershop’s online store. This initiative gives Powershop customers the chance to help raise funds for community renewable energy projects. When customers choose to purchase this

pack they pay a small premium. The amounts raised as a result of customers paying the premium are pooled and distributed to community renewable energy projects.

9. Marketing and Communication of Carbon Neutral Certification

Powershop use the NCOS trademark across a number of different marketing and communication channels.

Use of the NCOS trademark is captured in a register. This register is maintained by Powershop’s marketing team. MEA does not use the NCOS trademark as part of their organisational accreditation.

Use of the trademark

Powershop customers Account Review (electricity and bill):

Carbon emissions offset

Powershop has fully offset all the electricity we supply, at no extra cost to you. Because the increase in CO₂ levels (greenhouse gasses) in the atmosphere is a global problem, Powershop has chosen to use Certified Emissions Reduction units to achieve carbon neutrality.

More information can be found here: [The What, Why and How of carbon offsetting at Powershop.](#)



0.28829 tonnes*
For the period 19 Jul – 20 Aug



Your energy usage is certified 100% carbon neutral under the Australian Government's Carbon Neutral Program.

* In addition, if you purchase our 100% GreenPower product, you are also supporting the development and promotion of renewable energy in Australia. Your mum would be proud.

Powershop website – Environment & Community page:

Powershop and Renewable Energy

Ranked [Australia's greenest power company](#) by Greenpeace for two years running and backed by [Meridian Energy](#), Australasia's largest 100% renewable generator, Powershop is a modern electricity provider passionate about the future of renewable energy in Australia.

- Renewable Generation
- Community Energy
- GreenPower
- Energy Efficiency
- | Carbon Neutral

Carbon Neutral




As a Powershop customer, all of your energy usage is certified carbon neutral at no extra cost.

Meridian Energy Australia, one of our group companies, has been certified carbon neutral against the requirements of the National Carbon Offset Standard (NCOS) by the Australian Government. Although it's a bit of a mouthful, as the first power company to be accredited in Australia, we're chuffed.

Meridian Energy Australia, Powershop, and all of our operations are certified carbon offset under the NCOS benchmark. But importantly for our customers, the NCOS accreditation applies to the electricity we sell as well.

Use in digital marketing:



Referenced in our pricing statements:

Carbon Neutrality

We offset all of the carbon associated with our own operations and our customers' electricity usage drawn from the National Electricity Market (NEM), and we have been certified carbon neutral under the Australian Government's National Carbon Offset Standard (NCOS) program. So if you're a Powershop customer all your energy usage is certified 100% carbon neutral – at no extra cost.

Powershop website – Sustainability page:



Referenced in website FAQs:

▼ Does Powershop have official accreditation as Carbon Neutral?

Meridian Energy Australia - our parent company - has been certified carbon neutral under the Australian Government's National Carbon Offset Standard (NCOS) program.

The NCOS accreditation provides a benchmark for businesses and other organisations that are voluntarily seeking to be carbon neutral. The benchmark sets out what is required for calculating, auditing and offsetting the carbon account of an organisation, product or service to achieve carbon neutrality. It also provides guidance on what is a genuine offset unit.


To remain compliant with the NCOS program, we're required to record all emissions associated with conducting our business and then offset these emissions by surrendering voluntary GreenPower Large-scale Generation Certificates (LGCs) bought by our customers as well as voluntarily surrender Certified Reduction Certificates (CERs). We also comply with the obligation to surrender LGCs as is mandatory with the RET's Renewable Percentage.

So Meridian Energy Australia (our parent company), Powershop (us), and all our operations are certified carbon offset under the NCOS program. But importantly for our customers, the NCOS accreditation applies to our product as well. So if you're a Powershop customer all your energy usage is certified carbon neutral - at no extra cost.

[Head to the Government website for more information on this scheme.](#)

Use in website footer banner:


We're an electricity company, but one you'll like.



100% carbon neutral at no extra cost to our customers
[Learn more >](#)



We love our customers and they love us
[Learn more >](#)



Greenpeace Green Electricity Guide, 2014 & 2015
[Learn more >](#)

10. Declaration

To the best of my knowledge and having implemented the quality controls and standards required under the NCOS Carbon Neutral Program and made all appropriate inquiries, the information provided in this Public Disclosure Summary is true and correct.

Name of Signatory	Lynne Sutton
Signature:	
Position:	General Counsel
Date	30 September 2019