PUBLIC DISCLOSURE STATEMENT

EBM-PAPST A&NZ PTY LTD

ORGANISATION CERTIFICATION
CY2022

Australian Government

Climate Active
Public Disclosure Statement

ebmpapst

engineering a better life

An Australian Government Initiative

Climate Active

NAME OF CERTIFIED ENTITY	ebm-papst A&NZ Pty Ltd
REPORTING PERIOD	Calendar year 1 January 2022 – 31 December 2022
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.* 
	S.C. Bradwell Managing Director 18.3.24

Australian Government

Department of Climate Change, Energy, the Environment and Water

Version March 2023.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	3202 tCO_2-e
OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	111.35%
CARBON ACCOUNT	Prepared by: Pangolin Associates Pty Ltd
TECHNICAL ASSESSMENT	27/07/2023 Pangolin Associates Pty Ltd Next technical assessment due: CY 2026
THIRD PARTY VALIDATION	Type 1 Date 25/10/2023 Organisation Mott MacDonald

Contents

2.CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the calendar year 2022, from 1 January 2022 to 31 December 2022, and covers the Australian business operations of ebm-papst A&NZ Pty Ltd (ABN 33 115 927 556), trading as ebm-papst, for the purpose of carbon neutral medium organisation certification.

Organisation description

The operational boundary has been defined based on an operational control test, in accordance with the principles of the National Greenhouse and Energy Reporting Act 2007. This includes the following locations and facilities:

- 10 Oxford Road, Laverton North, 3026 VIC
- 13/19 Aero Road, Ingleburn, 2565 NSW
- H/61 Hugo Johnston Drive, Penrose, 1061 New Zealand

The methods used for collating data, performing calculations and presenting the carbon account are in accordance with the following standards:

- Climate Active Standards
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- National Greenhouse and Energy Reporting (Measurement) Determination 2008.

Where possible, the calculation methodologies and emission factors used in this inventory are derived from the National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008.

The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF_6) and nitrogen trifluoride (NF_3). These have been expressed as carbon dioxide equivalents (CO_2-e) using relative global warming potentials (GWPs).

ebm-papst stands as a global leader, dedicated to the development, manufacturing, and sale of energy-efficient fans, electric motors, and drives. Our primary goal revolves around providing comprehensive solutions to enhance comfort and optimize energy consumption in buildings. Moreover, we specialize in tailoring data-driven systems to meet the unique requirements of our customers, ensuring the optimal utilization of our products in OEM solutions.\

In the ANZ (Australia and New Zealand) region, ebm-papst ANZ operates as a fully owned subsidiary of the ebm-papst Group. For the past 35 years, we have been steadfastly supplying the ANZ market with products from the group's portfolio. Our unwavering focus remains on bolstering energy efficiency and reducing carbon footprints. The dedicated team at ebm-papst ANZ collaborates closely with manufacturers

and national regulatory bodies, actively contributing to the achievement of carbon reduction targets set by these countries.

With specialized expertise in air flow and movement engineering, ebm-papst is excellently positioned to cater to the market's needs. Our product range covers various applications, particularly those within built environments where a significant portion of daily energy consumption occurs.

The following subsidiaries are also included within this certification:

Legal entity name	ABN	ACN
N/A		

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 relevant and are quantified in the carbon inventory. This may include emissions that are not identified as arising due to the operations of the certified entity, however are **optionally included**.

Non-quantified emissions have been assessed as relevant 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

Excluded emissions are those that have been assessed as not relevant to an organisation's operations and are outside of its emissions boundary or are outside of the scope of the certification. These emissions are not part of the carbon neutral claim. Further detail is available at Appendix D.

Inside emissions boundary

Quantified

Accommodation and facilities

Cleaning and Chemicals

Construction Materials and Services

Electricity

ICT services and equipment

Office equipment & supplies

Postage, courier and freight

Products

Professional Services

Refrigerants

Stationary Energy (liquid fuels)

Transport (Air)

Transport (Land and Sea)

Waste

Water

Working from home

International operations

Non-quantified

N/A

Outside emission boundary

Excluded

Product Manufacturing

Product Life

Product Use

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

ebm-papst commits to reduce the total emissions from its operations by 20 percent by 2030, compared to a base year of 2022. This will be achieved through the following actions:

Scope 1 and 2 emissions will be reduced by:

- ebm-papst is already engaged in the procurement of GreenPower, the company remains committed to further mitigating scope 2 emissions by consistently procuring 100% renewable energy. The objective of this measure is to achieve a minimum 100% reduction in scope 2 emissions.
- By YE 2024, ebm-papst will upgrade local air-conditioning systems within its building using high efficiency equipment as well as control systems. The objective of this measure is to reduce scope 1 emissions.

Scope 3 emissions will be reduced by:

- By YE 2023, ebm-papst will close it's Sydney office and reduce emissions completely. This will reduce not only emissions from the building/office such as power consumption, refrigerant use and paper use but also travel emissions as colleagues will be working from home and reducing office travel.
- Whenever feasible, ebm-papst will opt to engage in meetings through video conferencing, as this approach will effectively reduce emissions associated with our business travel. ebm-papst will offset emissions resulting from unavoidable business travel by procuring carbon-neutral tickets.
- Wherever possible, ebm-papst will work with transport suppliers to reduce carbon emissions associated with shipping. This will include with respect to choice of suppliers as well as shipping technology used.
- As company cars reach end of life, the use of electrical vehicles will be investigated where distance travelled and charging possibilities allow.
- The procurement of certified carbon-neutral paper will effectively reduce emissions resulting from paper consumption.
- Over the next 10 years, ebm-papst will prioritise the use of carbon neutral freight services whenever feasible.
- ebm-papst will be implementing a greenhouse gas (GHG) management plan to effectively monitor, report, and update on an annual basis.

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5.EMISSIONS SUMMARY

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

N/A.

Certified brand name	Product/Service/Building/Precinct used
N/A	

Emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a market-based approach.

Emission category	Sum of scope 1 (tCO_2-e)	Sum of scope 2 (tCO_2-e)	Sum of scope 3 (tCO_2-e)	Sum of total emissions (t CO_2-e)
Accommodation and facilities	0.0	0.0	2.4	2.4
Cleaning and Chemicals	0.0	0.0	3.3	3.3
Construction Materials and Services	0.00	0.00	11.51	11.51
Electricity	0.0	0.0	0.0	0.0
ICT services and equipment	0.0	0.0	24.3	24.3
Office equipment & supplies	0.0	0.0	7.3	7.3
Postage, courier and freight	0.0	0.0	2895.0	2895.0
Products	0.0	0.0	0.1	0.1
Professional Services	0.0	0.0	48.9	48.9
Refrigerants	4.2	0.0	0.0	4.2
Stationary Energy (liquid fuels)	7.5	0.0	2.5	10.0
Transport (Air)	0.0	0.0	58.9	58.9
Transport (Land and Sea)	30.2	0.0	85.5	115.7
Waste	0.0	0.0	16.6	16.6
Water	0.0	0.0	0.4	0.4
Working from home	0.0	0.0	2.5	2.5
International operations	0.00	0.00	0.47	0.47
Total emissions	**41.9**	**0.0**	**3159.7**	**3201.5**

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions that cannot be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

Reason for uplift factor	**tCO_2-e**
N/A	
Total of all uplift factors	
Total emissions footprint to offset *(total emissions from summary table + total of all uplift factors)*	**3201.5**

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 3201.54 t CO_2-e. The total number of eligible offsets used in this report is 3202. Of the total eligible offsets used, 0 were previously banked and 3202 were newly purchased and retired. 0 are remaining and have been banked for future use.

Co-benefits

The main purpose of this project activity is to generate clean form of electricity through renewable solar energy source. The project is a bundled project activity which involves installation of 120 MW solar project in different states of India through SPVs.

Eligible offsets retirement summary

Offsets retired for Climate Active Carbon Neutral Certification											
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 (%)**
Bundled Solar Power Project by Solararise India Projects PVT. LTD	VCU	Verra	13/12/2023	10730-245048780-245050981-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0	2018		2202	0	0	2202	69%
Bundled Solar Power Project by Solararise India Projects PVT. LTD	VCU	Verra	13/12/2023	10730-245058384-245059383-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0	2018		1000	0	0	1000	31%
									Total eligible offsets retired and used for this report	3202	
									Total eligible offsets retired this report and banked for use in future reports	0	

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Carbon Units (VCUs)	3202	100%

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A.

The following RECs have been surrendered to reduce electricity emissions under the market-based reporting method.

1. Large-scale Generation certificates (LGCs)*	N/A

* LGCs in this table only include those surrendered voluntarily (including through PPA arrangements), and does not include those surrendered in relation to the LRET, GreenPower, and jurisdictional renewables.

Project supported by LGC purchase	Project location	Eligible unit type	Registry	Surrender date	Accreditation code	Certificate serial number	Generation year	Fuel source	Quantity (MWh)
N/A									
Total LGCs surrendered this report and used in this report									

APPENDIX A: ADDITIONAL INFORMATION

N/A

Additional offsets retired for purposes other than 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)**	**Purpose of retirement**

APPENDIX B: ELECTRICITY SUMMARY

There are two international best-practice methods for calculating electricity emissions – the location-based method and the market-based method. Reporting electricity emissions under both methods is called dual reporting.

Dual reporting of electricity emissions is useful, as it provides different perspectives of the emissions associated with a business's electricity usage.

Location-based method:

The location-based method provides a picture of a business's electricity emissions in the context of its location, and the emissions intensity of the electricity grid it relies on. It reflects the average emissions intensity of the electricity grid in the location (State) in which energy consumption occurs. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method:

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments. It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

For this certification, electricity emissions have been set by using the **market-based approach**.

Market-based approach summary

Market-based approach	Activity Data (kWh)	Emissions (kg CO_2-e)	Renewable percentage of total
Behind the meter consumption of electricity generated	1,410	0	1%
Total non-grid electricity	**1,410**	**0**	**1%**
LGC Purchased and retired (kWh) (including PPAs)	0	0	0%
GreenPower	98,633	0	92%
Climate Active precinct/building (voluntary renewables)	0	0	0%
Precinct/Building (LRET)	0	0	0%
Precinct/Building jurisdictional renewables (LGCS surrendered)	0	0	0%
Electricity products (voluntary renewables)	0	0	0%
Electricity products (LRET)	0	0	0%
Electricity products jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	19,798	0	18%
Residual Electricity	-12,218	-11,669	0%
Total renewable electricity (grid + non grid)	**119,841**	**0**	**111%**
Total grid electricity	**106,213**	**0**	**110%**
Total electricity (grid + non grid)	**107,623**	**0**	**111%**
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	**-12,218**	**-11,669**	
Scope 2	-10,790	-10,305	
Scope 3 (includes T&D emissions from consumption under operational control)	-1,428	-1,364	
Residual electricity consumption not under operational control	**0**	**0**	
Scope 3	0	0	.

Total renewables (grid and non-grid)	**111.35%**
Mandatory	**18.40%**
Voluntary	**91.65%**
Behind the meter	**1.31%**
Residual scope 2 emissions (t CO_2-e)	**-10.30**
Residual scope 3 emissions (t CO_2-e)	**-1.36**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**0.00**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**0.00**
Total emissions liability (t CO_2-e)	**0.00**

Figures may not sum due to rounding. Renewable percentage can be above 100%

Location-based approach summary

Location-based approach	Activity Data (kWh) total	Under operational control			Not under operational control	
Percentage of grid electricity consumption under operational control	**100%**	**(kWh)**	**Scope 2 Emissions ($kgCO_2$-e)**	**Scope 3 Emissions ($kgCO_2$-e)**	**(kWh)**	**Scope 3 Emissions ($kgCO_2$-e)**
ACT	0	0	0	0	0	0
NSW	7,580	7,580	5,533	455	0	0
SA	0	0	0	0	0	0
VIC	98,633	98,633	83,838	6,904	0	0
QLD	0	0	0	0	0	0
NT	0	0	0	0	0	0
WA	0	0	0	0	0	0
TAS	0	0	0	0	0	0
Grid electricity (scope 2 and 3)	**106,213**	**106,213**	**89,371**	**7,359**	**0**	**0**
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	1,410	1,410	0	0		
QLD	0	0	0	0		
NT	0	0	0	0		
WA	0	0	0	0		
TAS	0	0	0	0		
Non-grid electricity (behind the meter)	**1,410**	**1,410**	**0**	**0**		
Total electricity (grid + non grid)	**107,623**					

Residual scope 2 emissions (t CO_2-e)	**89.37**
Residual scope 3 emissions (t CO^2-e)	**7.36**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**89.37**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**7.36**
Total emissions liability	**96.73**

Operations in Climate Active buildings and precincts

Operations in Climate Active buildings and precincts	Electricity consumed in Climate Active certified building/precinct (kWh)	Emissions (kg CO_2-e)
N/A	**0**	**0**

Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their building or precinct certification. This electricity consumption is also included in the market based and location based summary tables. Any electricity that has been sourced as renewable electricity by the building/precinct under the market based method is outlined as such in the market based summary table.

Climate Active carbon neutral electricity products

Climate Active carbon neutral product used	Electricity claimed from Climate Active electricity products (kWh)	Emissions (kg CO_2-e)
N/A	**0**	**0**

Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their electricity product certification. This electricity consumption is also included in the market based and location-based summary tables. Any electricity that has been sourced as renewable electricity by the electricity product under the market-based method is outlined as such in the market based summary table.

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following emissions sources have been assessed as relevant, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. 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
N/A	

Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to this organisation's operations and are outside of its emissions boundary. These emissions are not part of the carbon neutral claim. Emission sources considered for relevance must be included within the certification boundary if they meet two of the five relevance criteria. Those which only meet one condition of the relevance test can be excluded from the certification boundary.

Emissions tested for relevance are detailed below against each of the following criteria:

1. **Size** The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions.

2. **Influence** The responsible entity has the potential to influence the reduction of emissions from a particular source.

3. **Risk** The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.

4. **Stakeholders** Key stakeholders deem the emissions from a particular source are relevant.

5. **Outsourcing** 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

Excluded emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Product Manufacturing, life and use.	N	N	N	N	Y	Products manufactured by ebm-papst are products of incorporation and the end of life emissions are not traceable. Ebm-Papst has no operational control over these products; as wholesalers, ebm-papst simply buy in and distribute them.

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