# PUBLIC DISCLOSURE STATEMENT

EBM-PAPST A&NZ PTY LTD

ORGANISATION CERTIFICATION
CY2023

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 2023 – 31 December 2023<br>Arrears report |
| 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.* |
| | Dr Simon Bradwell<br>Managing Director for ebm-papst ANZ Pty Ltd<br>22 Nov 2024 |

Australian Government

Department of Climate Change, Energy, the Environment and Water



Version August 2023.

# 1.CERTIFICATION SUMMARY

| | |
|---|---|
| TOTAL EMISSIONS OFFSET | 1,482 $tCO_2$-e |
| CARBON OFFSETS USED | 100% VCUs |
| RENEWABLE ELECTRICITY | 100% |
| CARBON ACCOUNT | Prepared by: Pangolin Associates |
| TECHNICAL ASSESSMENT | 27/07/2023 for CY2022 report<br>Pangolin Associates Pty Ltd<br>Next technical assessment due: CY 2025 report |

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# 2. CERTIFICATION INFORMATION

## Description of organisation certification

This inventory has been prepared for the calendar year 2023, from 1 January 2023 to 31 December 2023, 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 Climate Active organisation certification.

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

Embodied emissions from manufactured products are not included in the scope of this certification.

## Organisation description

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 specialised 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.

# 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

Food

ICT services and equipment

International operations (NZ)

Office equipment and supplies

Postage, courier and freight

Products

Professional services

Refrigerants

Stationary energy (liquid fuels)

Transport (air)

Transport (land and sea)

Waste

Water

Working from home

**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 per cent 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:

- 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.
- Wherever possible, 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.

## Emissions reduction actions

- ebm-papst closed its Sydney office in this reporting period. 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.
- ebm-papst provided working engineering systems for the control of air conditioning in its Melbourne office for implementation in 2024
- ebm-papst provided working engineering systems for electric car charges in its Melbourne office for implementation in 2024
- ebm-papst provided working engineering systems for electric car charges in its Auckland office for implementation in 2024
- ebm-papst initiated carbon reduction discussion with its upstream transport suppliers.
- ebm-papst initiated carbon reduction discussion with its main downstream transport supplier.

# 5. EMISSIONS SUMMARY

## Emissions over time

| Emissions since base year | | | |
|---|---|---|---|
| | | **Total $tCO_2$-e** (without uplift) | **Total $tCO_2$-e** (with uplift) |
| Base year: | 2022 | 3201.5 | - |
| Year 1: | 2023 | 1481.2 | - |

## Significant changes in emissions

| Emission source | Previous year emissions (t $CO_2$-e) | Current year emissions (t $CO_2$-e) | Reason for change |
|---|---|---|---|
| Air Freight (long haul) | 2,277.0 | 731.0 | The drop in freight emissions is due to being overstocked in CY2022 |
| Cargo Ship: Container ship | 615.6 | 341.3 | |

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

N/A

## Emissions summary

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

| Emission category | Scope 1 emissions ($tCO_2$-e) | Scope 2 emissions ($tCO_2$-e) | Scope 3 emissions ($tCO_2$-e) | Total emissions (t $CO_2$-e) |
|---|---|---|---|---|
| Accommodation and facilities | 0.0 | 0.0 | 8.1 | 8.1 |
| Cleaning and chemicals | 0.0 | 0.0 | 4.6 | 4.6 |
| Construction materials and services | 0.0 | 0.0 | 11.1 | 11.1 |
| Electricity | 0.0 | 0.0 | 0.0 | 0.0 |
| Food | 0.0 | 0.0 | 3.3 | 3.3 |
| ICT services and equipment | 0.0 | 0.0 | 23.0 | 23.0 |
| International operations (NZ) | 7.0 | 1.0 | 1.6 | 9.7 |
| Office equipment and supplies | 0.0 | 0.0 | 7.0 | 7.0 |
| Postage, courier and freight | 0.0 | 0.0 | 1075.7 | 1075.7 |
| Products | 0.0 | 0.0 | 0.6 | 0.6 |
| Professional services | 0.0 | 0.0 | 47.2 | 47.2 |
| Refrigerants | 3.8 | 0.0 | 0.0 | 3.8 |
| Stationary energy (liquid fuels) | 3.4 | 0.0 | 1.1 | 4.5 |
| Transport (air) | 0.0 | 0.0 | 174.3 | 174.3 |
| Transport (land and sea) | 21.3 | 0.0 | 64.8 | 86.1 |
| Waste | 0.0 | 0.0 | 18.3 | 18.3 |
| Water | 0.0 | 0.0 | 0.4 | 0.4 |
| Working from home | 0.0 | 0.0 | 3.4 | 3.4 |
| **Total emissions ($tCO_2$-e)** | **35.5** | **1.0** | **1444.6** | **1481.2** |

## Uplift factors

N/A

# 6. CARBON OFFSETS

## Eligible offsets retirement summary

**Offsets retired for Climate Active certification**

| Type of offset units | Eligible quantity (used for this reporting period) | Percentage of total |
|---|---|---|
| Verified Carbon Units (VCUs) | 1,482 | 100% |

| 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. | VCUs | Verra | 18/06/2024 | 10730-245111367-245112848-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0 | 2018 | N/A | 1482 | - | - | 1482 | 100% |
| | | | | | | | | | **Total eligible offsets retired and used for this report** | **1482** | |
| | | | | | | | | | **Total eligible offsets retired this report and banked for use in future reports** | 0 | |

## 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.

# 7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

## Renewable Energy Certificate (REC) summary

N/A

# APPENDIX A: ADDITIONAL INFORMATION

N/A

# 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 | 38,371 | 0 | 36% |
| **Total non-grid electricity** | **38,371** | **0** | **36%** |
| LGC Purchased and retired (kWh) (including PPAs) | 0 | 0 | 0% |
| GreenPower | 64,076 | 0 | 60% |
| 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) | 13,011 | 0 | 12% |
| Residual Electricity | -8,463 | -7,701 | 0% |
| **Total renewable electricity (grid + non grid)** | **115,458** | **0** | **108%** |
| **Total grid electricity** | **68,624** | **0** | **72%** |
| **Total electricity (grid + non grid)** | **106,995** | **0** | **108%** |
| Percentage of residual electricity consumption under operational control | 100% | | |
| **Residual electricity consumption under operational control** | **-8,463** | **-7,701** | |
| Scope 2 | -7,533 | -6,855 | |
| Scope 3 (includes T&D emissions from consumption under operational control) | -930 | -846 | |
| **Residual electricity consumption not under operational control** | **0** | **0** | |
| Scope 3 | 0 | 0 | |

| | |
|---|---|
| **Total renewables (grid and non-grid)** | **107.91%** |
| **Mandatory** | **12.16%** |
| **Voluntary** | **59.89%** |
| **Behind the meter** | **35.86%** |
| **Residual scope 2 emissions (t $CO_2$-e)** | **-6.86** |
| **Residual scope 3 emissions (t $CO_2$-e)** | **-0.85** |
| **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)** |
| NSW | 4,548 | 4,548 | 3,093 | 227 | 0 | 0 |
| VIC | 64,076 | 64,076 | 50,620 | 4,485 | 0 | 0 |
| **Grid electricity (scope 2 and 3)** | **68,624** | **68,624** | **53,713** | **4,713** | **0** | **0** |
| VIC | 38,371 | 38,371 | 0 | 0 | | |
| **Non-grid electricity (behind the meter)** | **38,371** | **38,371** | **0** | **0** | | |
| **Total electricity (grid + non grid)** | **106,995** | | | | | |

| | |
|---|---|
| **Residual scope 2 emissions (t $CO_2$-e)** | **53.71** |
| **Residual scope 3 emissions (t $CO_2$-e)** | **4.71** |
| **Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t $CO_2$-e)** | **53.71** |
| **Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t $CO_2$-e)** | **4.71** |
| **Total emissions liability** | **58.43** |

## 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 electricity 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.

N/A – no relevant emission sources have been quantified in this reporting period.

## 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.

| Emission sources tested for relevance | Size | Influence | Risk | Stakeholders | Outsourcing | Justification |
|---|---|---|---|---|---|---|
| Product manufacturing (Including product life & 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, we simply buy in and distribute them. |

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