PUBLIC DISCLOSURE STATEMENT

COPPERHEAD SANDALWOOD

ORGANISATION CERTIFICATION
CY2023

Australian Government

Climate Active
Public Disclosure Statement

COPPERHEAD SANDALWOOD

An Australian Government Initiative

Climate Active

NAME OF CERTIFIED ENTITY	Copperhead (WA) Pty Ltd
REPORTING PERIOD	1 January 2023 – 31 December 2023 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.* *Alex Wilson*
	Alex Wilson Director 18/7/24

Australian Government
Department of Climate Change, Energy, the Environment and Water

Version August 2023.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	153 tCO_2-e
CARBON OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: Cool Planet
TECHNICAL ASSESSMENT	18/7/24 Cool Planet Next technical assessment due: CY 2025 report

Contents

2. CERTIFICATION INFORMATION

Description of organisation certification

This inventory has been prepared for the Calendar year 1st of January 2023 to 31st December 2023 and covers the Australian business operations of Copperhead (WA) Pty Ltd (ABN: 98 639 851 255).

It complies with the Climate Active Standard for Carbon Neutral Organisations and is based on the operational control approach to the measurement of greenhouse gases.

The certification does not include the embodied emission associated with products sold by the company.

This Public Disclosure Statement includes information for CY2023 reporting period.

Organisation description

A proud family business, Copperhead supplies the world's highest grade sustainable 'Santalum album'. Copperhead grows Indian sandalwood sustainably in Australia's awe-inspiring East Kimberley region, and Northern Queensland, and also supplies sandalwood to markets through our growers.

Copperhead has one Australian based location under operational control at 33 Hope Valley road, Naval base, WA, Australia.

The following subsidiaries are also included within this certification:

Legal entity name	ABN	ACN
N/A		

3.EMISSIONS BOUNDARY

This is a small organisation certification, which uses the standard Climate Active small organisation 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
- Carbon neutral products and services
- Cleaning and chemicals
- Electricity
- Food
- ICT services and equipment
- Professional services
- Land and sea transport
- Office equipment and supplies
- Postage, courier and freight
- Refrigerants
- Stationary energy and fuels
- Transport (air)
- Transport (land and sea)
- Waste
- Water
- Any other quantified relevant emissions source

Non-quantified

N/A

Optionally included

N/A

Outside emission boundary

Excluded

Embodied emissions associated with Sandalwood products sold by Copperhead.

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Copperhead has a modest carbon footprint with many measures already undertaken to reduce its carbon emissions.

Copperhead commits to reduce scope 1, 2 and 3 emissions intensity by 10% by 2027 based on a 2022 base year.

The emissions intensity in 2022 per $10,000 was 7.98

Copperhead also commitments to:

- Reduce waste to landfill by at least 10%.
- Reduce water use by at least 25%.

Emissions reduction actions

Copperhead will continue to meet its commitments with the following carbon reduction actions:

- Installing recycling and compost bins in its staff kitchen.
- Reduce water use in the distilling process through upgrading machinery.
- Utilise video conferencing to reduce domestic travel.
- Improved energy efficiency though staff education and technological upgrades to reduce electricity usage.
- Carpooling to reduce staff commuting emissions.

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	72.01	75.61
Year 1:	2023	145.23	152.49

Significant changes in emissions

Emissions intensity in CY2022 was 7.98, with emissions intensity in CY2023 being 6.41.

This represents a 19% decrease.

There were also a number of specific areas where significant emissions reductions occurred that Copperhead has committed to:

- 71% reduction in domestic flights (scope 3)
- 82% reduction in water use (scope 3)
- 23% reduction in electricity (scope 2)
- 81% decrease in staff commuting (scope 1)

There was 34% increase in waste to landfill emissions.

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	12.318	35.429	Growth in Business, increased product distribution
Long economy Class Flights	41.326	67.734	Growth in business, extra travel to trade shows

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

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 location-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	0.00	0.00	5.49	5.49
Cleaning and Chemicals	0.00	0.00	0.04	0.04
Climate Active carbon neutral products and services	0.00	0.00	0.00	0.00
Construction Materials and Services	0.00	0.00	8.03	8.03
Electricity	0.00	2.51	0.19	2.70
Food	0.00	0.00	0.00	0.00
Horticulture and Agriculture	0.00	0.00	0.00	0.00
ICT services and equipment	0.00	0.00	2.05	2.05
Machinery and vehicles	0.00	0.00	0.00	0.00
Office equipment & supplies	0.00	0.00	0.46	0.46
Postage, courier and freight	0.00	0.00	35.44	35.44
Products	0.00	0.00	0.00	0.00
Professional Services	0.00	0.00	2.85	2.85
Refrigerants	0.00	0.00	0.00	0.00
Roads and landscape	0.00	0.00	0.00	0.00
Stationary Energy (gaseous fuels)	0.00	0.00	0.00	0.00
Stationary Energy (liquid fuels)	0.00	0.00	0.00	0.00
Stationary Energy (solid fuels)	0.00	0.00	0.00	0.00
Transport (Air)	0.00	0.00	81.78	81.78
Transport (Land and Sea)	1.02	0.00	0.30	1.32
Waste	0.00	0.00	4.74	4.74
Water	0.00	0.00	0.20	0.20
Working from home	0.00	0.00	0.12	0.12
Total emissions (tCO_2-e)	**1.02**	**2.51**	**141.69**	**145.23**

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**
Mandatory 5% uplift for small organisations	7.261
Total of all uplift factors (tCO_2-e)	7.261
Total emissions footprint to offset (tCO_2-e) *(total emissions from summary table + total of all uplift factors)*	**152.49**

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)	153	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 (%)
Bucakkisla HPP Run-Of-River Hydro Project	VCU	Verra	2 Jul 2024	13049-468917738-468917890-VCS-VCU-279-VER-TR-1-1127-01012017-31122017-0	2017	-	153	0	0	153	100%
									Total eligible offsets retired and used for this report	**153**	
									Total eligible offsets retired this report and banked for use in future reports	0	

Co-benefits

Bucakkisla HPP Run-of-River Hydro Project: Enhancing Renewable Energy in Turkey

The Bucakkisla HPP is a notable run-of-river hydroelectric power plant with a capacity of 41 MWe. Officially commencing electricity production on January 1, 2015, this plant has become a significant contributor to renewable energy in the region. It's expected to generate around 151.522 GWh of electricity annually.

Strategically built on the Göksu river, the plant features a total channel length of 45,503 meters and a crest elevation of 400 meters. The electricity produced by the Bucakkisla HPP is fed directly into Turkey's national grid, playing a vital role in the country's energy infrastructure.

The Bucakkisla HPP project is more than just an energy-generating facility. It represents a key step in Turkey's efforts to stimulate and commercialise grid-connected renewable energy technologies. By demonstrating the viability of run-of-river projects, this plant contributes to enhanced energy security, improved air quality, and the development of sustainable renewable energy industries.

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 **location-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	0	0	0%
Total non-grid electricity	**0**	**0**	**0%**
LGC Purchased and retired (kWh) (including PPAs)	0	0	0%
GreenPower	0	0	0%
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)	899	0	19%
Residual Electricity	3,845	3,499	0%
Total renewable electricity (grid + non grid)	**899**	**0**	**19%**
Total grid electricity	**4,744**	**3,499**	**19%**
Total electricity (grid + non grid)	**4,744**	**3,499**	**19%**
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	**3,845**	**3,499**	
Scope 2	3,422	3,114	
Scope 3 (includes T&D emissions from consumption under operational control)	422	384	
Residual electricity consumption not under operational control	**0**	**0**	
Scope 3	0	0	.

Total renewables (grid and non-grid)	**18.96%**
Mandatory	**18.96%**
Voluntary	**0.00%**
Behind the meter	**0.00%**
Residual scope 2 emissions (t CO_2-e)	**3.11**
Residual scope 3 emissions (t CO_2-e)	**0.38**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**3.11**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**0.38**
Total emissions liability (t CO_2-e)	**3.50**

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)**
WA	4,744	4,744	2,514	190	0	0
Grid electricity (scope 2 and 3)	**4,744**	**4,744**	**2,514**	**190**	**0**	**0**
WA	0	0	0	0		
Non-grid electricity (behind the meter)	**0**	**0**	**0**	**0**		
Total electricity (grid + non grid)	**4,744**					

Residual scope 2 emissions (t CO_2-e)	**2.51**
Residual scope 3 emissions (t CO_2-e)	**0.19**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**2.51**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**0.19**
Total emissions liability	**2.70**

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.

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
Embodied emissions associated with Sandalwood products sold by Copperhead.	N	N	N	N	N	The embodied emissions associated with the third party supply chain of sandalwood products are outside the organisations influence and are deemed outside the emissions boundary by stakeholders. There is no outsourcing and there is no risk associated with the embodied emissions. The embodied emissions will be identified further in a future “product” climate active certification.

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