PUBLIC DISCLOSURE STATEMENT

HANSEN ENGINEERING GROUP

ORGANISATION CERTIFICATION
FY2022–23

Australian Government

Climate Active
Public Disclosure Statement

An Australian Government Initiative

NAME OF CERTIFIED ENTITY	Hansen Engineering Group Pty Ltd
REPORTING PERIOD	1 July 2022 – 30 June 2023 Projected
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.*  Timothy Hansen Director 11/01/2023

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

Version March 2022.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	26.947 tCO_2-e
OFFSETS BOUGHT	100% VERs
RENEWABLE ELECTRICITY	18.59%
TECHNICAL ASSESSMENT	N/A – Small Organisation
THIRD PARTY VALIDATION	Type 1 11/01/2023 Darren Cruise Carbon Neutral Advisory

Contents

2. CARBON NEUTRAL INFORMATION

Description of certification

This certification covers the Australian business operations of Hansen Engineering Group Pty Ltd, ABN 30 644 534 369

The emissions boundary has been defined based on the operational control approach, in accordance with the climate active Carbon Neutral Standard for Organisations.

Organisation description

Hansen Engineering Group Pty Ltd (ABN 30 644 534 369, ACN 644 534 369) is a civil/structural engineering consultancy based in Townsville, Queensland. Hansen Engineering Group provides engineering services to the infrastructure, industrial, commercial and residential markets.

Climate Active is important to Hansen Engineering Group to demonstrate our commitment to paving the way towards a sustainable construction industry.

3.EMISSIONS BOUNDARY

This is a small organisation certification, which uses the standard Climate Active small organisation emissions boundary. Emission sources can be excluded if they do not occur.

Inside the emissions boundary

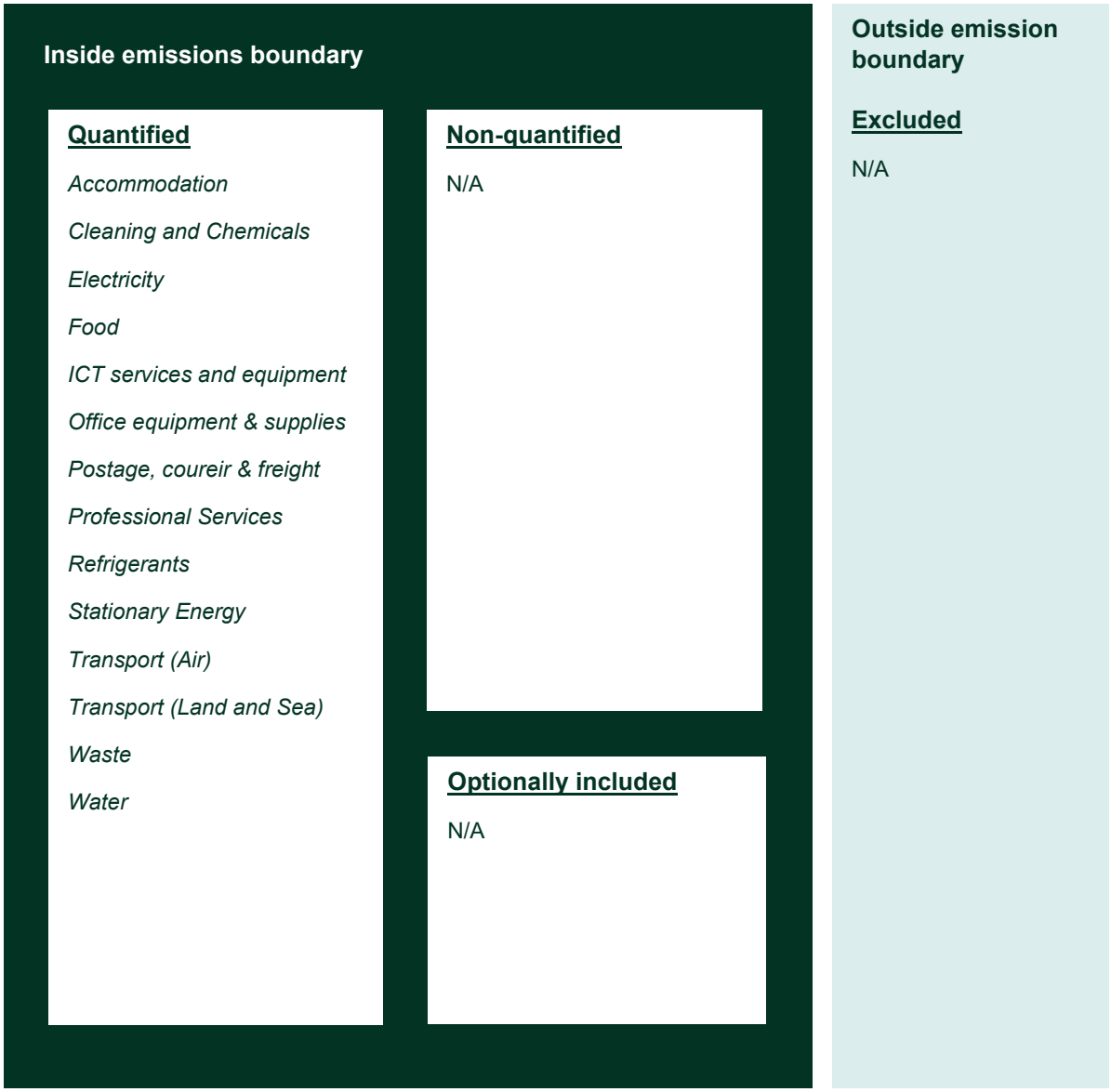
All emission sources listed in the emissions boundary are part of the carbon neutral claim.

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 or precinct'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.



Data management plan for non-quantified sources

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

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Hansen Engineering Group is committed to reducing operational emissions and have set a target to reduce scope 2 emissions by 50% by 2035, compared to a FY22-23 base year. Hansen Engineering Group is also committed to reducing scope 3 emissions by 30% within the same timeframe, relative to the same baseline. The following details how we plan to achieve our emissions reduction targets by addressing our largest three emission contributors

1. **Electricity (Scope 2)**

   Consider Climate Active energy products and /or government accredited GreenPower alternatives. Preference for high NABERS' and Green Star ratings when considering any change to office location. Office energy efficiencies: LED lighting, appliance and utility timers, purchase energy efficient appliances, staff awareness campaigns to foster awareness around energy consumption and change behaviours to become more energy efficient.

   Target: 50% reduction by 2035

2. **Transport (Land and Sea) (Scope 3)**

   Avoid unnecessary travel to/from project sites by making use of remote technologies as far as practicable. Encourage staff to work from home and avoid office commute where possible. Preference for fuel efficient vehicles when purchasing any future company vehicles.

   Target: 30% reduction by 2035

3. **Office equipment & supplies (Scope 3)**

   Implement software-based document review system to reduce printing supply costs. Use of carbon certified neutral paper. Rent equipment for short term use on as needed basis instead of purchasing. Preference when purchasing any new equipment or furniture to be sourced from sustainable materials.

   Target: 30% reduction by 2035

5.EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

N/A

Organisation 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 (t CO2-e)	Sum of Scope 2 (t CO2-e)	Sum of Scope 3 (t CO2-e)	Sum of Total Emissions (t CO2-e)
Accommodation and facilities	0.00	0.00	0.00	0.00
Cleaning and Chemicals	0.00	0.00	0.73	0.73
Electricity	0.00	8.88	0.00	8.88
Food	0.00	0.00	1.11	1.11
ICT services and equipment	0.00	0.00	0.21	0.21
Office equipment & supplies	0.00	0.00	4.46	4.46
Postage, courier and freight	0.00	0.00	0.17	0.17
Professional Services	0.00	0.00	0.64	0.64
Refrigerants	0.26	0.00	0.00	0.26
Stationary Energy	0.00	0.00	0.00	0.00
Transport (Air)	0.00	0.00	0.28	0.28
Transport (Land and Sea)	0.00	0.00	5.23	5.23
Waste	0.00	0.00	3.65	3.65
Water	0.00	0.00	0.05	0.05
Grand Total	**0.26**	**8.88**	**16.52**	**25.66**

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions, which can't 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**
Compulsory additional 5% of the total to be added for small organisations	1.283
Total of all uplift factors	1.283
Total footprint to offset *(total net emissions from summary table + total uplifts)*	**26.947**

6.CARBON OFFSETS

Offsets retirement approach

Forward purchasing		
1.	Total emissions footprint to offset for this report	27
2.	Total eligible offsets purchased and retired for this report and future reports	27
3.	Total eligible offsets retired and used for this report	27
4.	Total eligible offsets forward purchased and banked to use toward next year's report	0

Co-benefits

100.5 MW Wind Power Project in Madhya Pradesh, India

This is a 100.5 MW wind power project located in the central Indian state of Madhya Pradesh, promoted by Orange Mamatkheda Wind Private Limited. The project consists of 67 WTGs of 1.5 MW each generating clean electricity with utilization of wind energy. The project has conducted an ESIA study in line with the IFC guidelines while engaging local community through frequent stakeholders' consultation. It has played an important role in reducing CO2 emissions and will continue to contribute towards the economic growth of the area by generating 180 GWh of clean electricity annually, which is equivalent to powering 42,000 households every year. The project also leads to mitigation of 1.23 million tCO2e in carbon emissions in 7 years.

Project impacts and benefits:

Orange Renewable as a socially responsible organization is dedicated to CSR initiatives to improve the quality of life in the projects vicinity. Along these lines, Orange Renewable consistently invests in the following thematic areas:

1. Enhancing the quality of Education
2. Supporting the "Clean India" initiative of the Government of India by investing in Sanitary infrastructure in schools and community centers
3. Augmenting medical and health care facilities
4. Potable water supply infrastructure
5. Employment Generation
6. Women Empowerment
7. Safeguarding Environment

In keeping with the above thematic focus, the following specific initiatives have been undertaken in the project vicinity:

1. Distribution of necessary infrastructure such as furniture, education aid including stationery, math-science kit, sports material and scholarship to the meritorious students of more than 25 schools benefitting over 5,000 children.
2. Assistance to the underprivileged: Distribution of computers, bicycles and stationery to orphanage, benefitting more than 60 children and distribution of clothes in old age home.
3. Clean India: Development of sanitation facilities like toilet construction in public places.

4. Access to Clean Water: Water tanks along with water purifier systems have been installed benefitting public at a large scale, thereby providing easy access to clean & safe drinking water.
5. Tree plantation drives in schools, sub-stations and public places are conducted on a regular basis.
6. Electrification: Installation of electricity transformer and distribution line which has enabled direct household electrification and energy to water pumps for agricultural purposes benefitting over 1,000 people. This is apart from the approx. 93km of transmission lines built for project purposes.
7. Orange Mamatkheda has helped to build around 21.6 kms of roads in villages within the project vicinity.
8. Delivering motivational workshops to people affected with HIV AIDS, in collaboration with Madhya Pradesh state AIDS control society and imparting significance of Anti-Retro Viral Therapy in their life, benefitting over 60 people. Regularly organizing camps/rallies to quit smoking and creating awareness in the stakeholders.
9. Organized mega medical camps in the nearby villages and undertook distribution of free medicines at the camps, benefitting over 1000 people of around 7 villages. Also conducted awareness programs on nutrition, ante-natal/post-natal care, sexually transmitted diseases (STDs) and hygiene.
10. The project has led to direct employment generation for 730 persons during construction phase (including laborers, supervisors & engineers), out of which 266 employees were hired locally. The project has also led to employment for 76 persons on a permanent basis.

Eligible offsets retirement summary

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**	**Stapled quantity**	**Eligible quantity (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 (%)**
100.5 MW Wind Power Project in Madhya Pradesh, India	VER	Gold Standard	11/01/2023	GS1-1-IN-GS3969-12-2020-21941-40612-40638	2020		27.0	0.0	0.0	27.0	100%
									Total offsets retired this report and used in this report	27.0	
									Total offsets retired this report and banked for future reports	0.0	

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Verified Emissions Reductions (VERs)	27.0 tonnes	100%

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a market-based approach

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.

Market Based Approach Summary

Market Based Approach	Activity Data (kWh)	Emissions (kgCO2e)	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 & Precinct LGCs)	0	0	0%
GreenPower	0	0	0%
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)	2,039	0	19%
Residual Electricity	8,929	8,884	0%
Total grid electricity	**10,968**	**8,884**	**19%**
Total Electricity Consumed (grid + non grid)	**10,968**	**8,884**	**19%**
Electricity renewables	2,039	0	
Residual Electricity	8,929	8,884	
Exported on-site generated electricity	**0**	**0**	
Emissions (kgCO2e)		8,884	

Total renewables (grid and non-grid)	**18.59%**
Mandatory	**18.59%**
Voluntary	**0.00%**
Behind the meter	**0.00%**
Residual Electricity Emission Footprint (TCO2e)	**9**

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

Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	10,968	8,774	1,316
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Grid electricity (scope 2 and 3)	**10,968**	**8,774**	**1,316**
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	**0**	**0**	**0**
Total Electricity Consumed	**10,968**	**8,774**	**1,316**

Emission Footprint (TCO2e)	**10**
Scope 2 Emissions (TCO2e)	9
Scope 3 Emissions (TCO2e)	1

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
Enter product name/s here	**0**	**0**

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following sources emissions 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	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
N/A				

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to an organisation's or precinct'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	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
N/A						

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