



PUBLIC DISCLOSURE STATEMENT

ERBAS & ASSOCIATES PTY LTD

ORGANISATION CERTIFICATION


FY2022-23

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	erbas™
REPORTING PERIOD	Financial year 01 July 2022 – 30 June 2023 Arrears report
DECLARATION	<p><i>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.</i></p>  <p>Name of signatory: Ken Gurcan Erbas Position of signatory: Managing Director Date: 5/4/24</p>



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

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Version August 2023.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	291 t CO ₂ -e
OFFSETS USED	15.81% ACCUs, 84.19% VERs
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: Rennie Advisory Pty Ltd
TECHNICAL ASSESSMENT	Date: 28 July 2022 Organisation : Conversio Pty Ltd Next technical assessment due: FY24 report

Contents

1. Certification summary	3
2. Carbon neutral information	4
3. Emissions boundary	5
4. Emissions reductions	7
5. Emissions summary	9
6. Carbon offsets	11
7. Renewable Energy Certificate (REC) Summary	13
Appendix A: Additional Information	14
Appendix B: Electricity summary	16
Appendix C: Inside emissions boundary	20
Appendix D: Outside emissions boundary	21

2. CARBON NEUTRAL INFORMATION

Description of certification

This certification is for Erbas & Associates Pty Ltd (ABN 57 077 132 266) Australian business operations.

Organisation description

erbas™ has been established over 25 years and employs approximately 90 staff across multiple offices in Australia and abroad. Everything we do is focused on successful outcomes for our clients. It has never been our goal to be the biggest. But we are committed to being the best and that makes all the difference. Our fields of consulting include the building engineering fields of Mechanical, Electrical & Communications, Security, AV, Lighting, Hydraulic, Stormwater, Fire Protection, Sustainability and Lift systems. erbas™ SUSTAIN is a service line of erbas™ under the same business structure. Through our ESD team, we strive to encompass good sustainability principles in all our projects.

The reporting boundaries of our GHG inventory encompass our facilities at

- Level 3, 116 Hardware Street, Melbourne VIC 3000,
- Level 1, 15 Atchison Street, St Leonards, NSW 2065, and
- A regional office in Echuca/Moama (VIC/NSW) for one person working from home.

There is an overseas support office based in Manila that has been excluded from this inventory, for the reasons outlined in Appendix D.

Our GHG inventory quantifies carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O), measured in tonnes of CO₂ equivalent (t CO₂ -e).

We are not aware of any relevant sources of hydrofluorocarbons, (HFC), perfluorocarbons (PFCs), sulphur hexafluoride (SF₆), or nitrogen trifluoride (NF₃) within our operational boundary.

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

Cleaning and chemicals
Electricity
ICT services and equipment
Office equipment & supplies
Professional services
Stationary energy
Transport (air)
Transport (land)
Waste to landfill
Water & wastewater
Working from home

Non-quantified

Regional office in
Echuca/Moama
Food
Postage, courier, & freight
Refrigerants

Optionally included

N/A

Outside emission boundary

Excluded

Manila office

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

erbas™ is committed to a dual-strategy approach for carbon emissions reduction. This approach integrates ongoing enhancements through collaboration between business development and the exchange of insights with the sustainability division of erbas™ SUSTAIN. Additionally, the strategy involves direct actions to cut emissions in all domestic offices. Erbas™ aims to bolster sustainable business practices that not only reduce its environmental impact but also align with broader sustainability goals, such as supporting local economies, enhancing the lives of indigenous populations, and improving stakeholder well-being, including the mental and physical health of staff and communities. The company has been involved in creating sustainability master plans for schools, launching sustainability initiatives for multinational logistics firms, and consulting for various organizations, including councils and universities. In its mission to reduce emissions, erbas™ focuses on actions that offer long-term, measurable benefits towards its comprehensive sustainability objectives. The goal is a 10% reduction in scope 1, 2, and 3 emissions by 2030, compared to FY21-FY22 figures, with regular reviews to assess progress.

Area	Action	Objective	Timeline
Education & Research	Implement quarterly office training sessions.	Achieve a 5% annual increase in office training effectiveness.	3 years with annual evaluations.
Energy	Upgrade monitoring, air-conditioning, lighting, and ICT systems.	Reduce energy consumption by 10%.	3 years with annual evaluations.
Water	Update kitchen and bathroom fixtures.	Install fixtures with higher WELs ratings during office renovation.	Next office renovation.
Waste	Enhance waste management and staff recycling education.	Cut landfill waste by 20%.	3 years with annual evaluations.
Indoor Environmental Quality (IEQ)	Conduct regular indoor air quality checks.	Identify and address any air quality issues.	3 years with annual evaluations.

Emissions reduction actions

- erbas™ has implemented several initiatives to enhance its environmental sustainability and operational efficiency, as well as to foster a positive work environment for its staff. These actions demonstrate the company's commitment to reducing its carbon footprint, promoting healthier lifestyles, and improving productivity through sustainable practices. Below is an updated and clarified summary of these initiatives:
- erbas™ has upgraded its IT infrastructure to include energy-efficient laptop computers for all staff members.
- The Sydney office replaced monitors with energy-efficient LED monitors, significantly reducing energy consumption.
- erbas™ has a flexible working policy of three days in the office and two days working from home. This policy aims to enhance work-life balance for employees and reduce carbon emissions associated with daily commutes.

- Employees are encouraged to opt for active transportation (walking or cycling) or to use public transport instead of driving to work, aiming to lower the carbon footprint related to employee commutes.
- erbas™ has developed a comprehensive framework to regularly assess and improve its Environmental, Social, and Governance (ESG) performance.
- erbas™ SUSTAIN has created platforms for team members to exchange expertise on Environmentally Sustainable Design (ESD) and to ensure strategic alignment across management, engineering, and sustainability divisions. This fosters a culture of continuous learning and aligns employee values with the company's sustainability objectives.
- To accommodate the company's growth and to bolster its research and knowledge-sharing capabilities, erbas™ has invested in advanced hardware, specialized software, and skilled professionals.
- The Melbourne office regularly monitors IEQ to identify and implement improvements. Insights from IEQ data, combined with the expertise of engineering and sustainability teams, have led to enhancements that benefit staff health, wellbeing, and productivity by ensuring a higher quality indoor environment.

5. EMISSIONS SUMMARY

Emissions over time

		Emissions since base year	
		Total tCO ₂ -e (without uplift)	Total tCO ₂ -e (with uplift)
Base year:	2020-21	242.47	254.63
Year 1:	2021-22	327.55	N/A
Year 2:	2022-23	290.23	N/A

Significant changes in emissions

Emission source name	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Detailed reason for change
Electricity (location-based method, scope 2)	79.18	100.60	Emission fluctuations arise from updates in emission factors and adjustments in operational activities, both of which are standard aspects of business dynamics, and return to office trends, post Covid-19. This is also reflected in our reduced WFH emissions, which has not triggered the reporting thresholds.
Computer and technical services	54.86	42.70	Adjustments in operational activities, standard aspects of business dynamics.
General waste (municipal waste)	8.03	32.75	Return to office trends post COVID-19. This is also reflected in our reduced WFH emissions, which has not triggered the reporting thresholds. This has also been recategorised from commercial waste into general waste and recycling separated.

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 location-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)
Cleaning and chemicals	0.00	0.00	2.76	2.76
Construction materials and services	0.00	0.00	1.71	1.71
Electricity	0.00	100.60	8.28	108.88
ICT services and equipment	0.00	0.00	58.50	58.50
Professional services	0.00	0.00	24.54	24.54
Stationary energy (gaseous fuels)	3.18	0.00	0.51	3.70
Stationary energy (liquid fuels)	0.48	0.00	0.12	0.60
Transport (air)	0.00	0.00	12.07	12.07
Transport (land and sea)	0.00	0.00	28.26	28.26
Waste	0.00	0.00	32.75	32.75
Water	0.00	0.00	0.66	0.66
Working from home	0.00	0.00	11.10	11.10
Office equipment and supplies	0.00	0.00	4.70	4.70
Total	3.67	100.60	185.97	290.23

Uplift factors

N/A

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 291 t CO₂-e. The total number of eligible offsets used in this report is 291. Of the total eligible offsets used, none were previously banked and 306 were newly purchased and retired. 15 are remaining and have been banked for future use.

Co-benefits

The Akbük wind farm project includes the development of a 31.5 MW onshore wind farm in the Aydın region, Didim district in Turkey. It includes the installation of 15 turbines and the construction of a highvoltage line between the project area and the national network. The project activity generates an estimated net electricity of 105 GWh per year and feeds it into the Turkish grid. The project helps reduce greenhouse gas emissions in Turkey by generating clean electricity for the regional power grid, which has so far obtained much of its electricity from fossil fuel sources.

Savanna fires contribute to about 3% of Australia's greenhouse gas emissions. Working together, Traditional Owners and Aboriginal rangers use early dry season-controlled burns to create cooler fires. This approach significantly reduces greenhouse gas emissions compared to the more intense, uncontrolled fires that typically occur later in the dry season.

Controlled burns in savanna grasslands reduce emissions and encourage the regeneration of grasses and other plants. This regeneration provides essential food and habitat for various local species. Moreover, these cooler fires help manage invasive species, lower the risk of larger wildfires, and enhance the ecosystem's health and resilience.

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 (%)
Oriners & Sefton Savanna Burning Project – EOP100959	ACCU	ANREU	27 Mar 2024	8,370,683,803 - 8,370,683,848	2022-23	N/A	46	0	0	46	15.81%
Akbuk Wind Power Plant, Turkey	VER	Gold Standard Registry	9 May 2023	GS1-1-TR-GS2464-12-2016-19157-2254-2513	2016	N/A	260	0	15	245	84.19%
Total eligible offsets retired and used for this report										291	
Total eligible offsets retired this report and banked for use in future reports									15		

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Australian Carbon Credit Units (ACCUs)	46	15.81%
Verified Emissions Reductions (VERs)	245	84.19%

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

OFFICIAL



Australian Government
Clean Energy Regulator



27 March 2024

VC202324-00421

To whom it may concern,

Voluntary cancellation of units in ANREU

This letter is confirmation of the voluntary cancellation of units in the Australian National Registry of Emissions Units (ANREU) by ANREU account holder, BETACARBON PTY LTD (account number AU-3052).

The details of the cancellation are as follows:

Date of transaction	27 March 2024
Transaction ID	AU32949
Type of units	KACCU
Total Number of units	46
Serial number range	8,370,683,803 - 8,370,683,848
ERF Project	Oriners & Sefton Savanna Burning Project – EOP100959
Vintage	2022-23
Transaction comment	Voluntary retirement on behalf of Erbas and Associates Pty Ltd. to support claim under the Climate Active Carbon Neutral Standard for FY22-23

Details of all voluntary cancellations in the ANREU are published on the Clean Energy Regulator's website, <http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information>.

If you require additional information about the above transaction, please email RegistryContact@cer.gov.au

Yours sincerely,

David O'Toole
NGER and Safeguard Branch
Clean Energy Regulator
registry-contact@cer.gov.au



OFFICIAL

Carbon Offsetting Certificate

260
tonnes CO₂-e

This certificate verifies that in the period of 1 July 2022 to 1 June 2023

Erbas & Associates Pty Ltd

has offset 260 tonnes of greenhouse gas emissions with the purchase and retirement of certified carbon credits.

Project: Akbuk Wind Power Plant, Turkey
Date issued: 9 May 2023

Registry: GSF
Serial No's.: GS1-1-TR-GS2464-12-2016-19157-2254-2513



Iain Smale
Managing Director, Pangolin Associates Pty Ltd

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+61 2 8005 6300
info@pangolinassociates.com
www.pangolinassociates.com

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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)	23,744	0	19%
Residual Electricity	102,552	97,937	0%
Total renewable electricity (grid + non grid)	23,744	0	19%
Total grid electricity	126,296	97,937	19%
Total electricity (grid + non grid)	126,296	97,937	19%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	102,552	97,937	
Scope 2	90,566	86,490	
Scope 3 (includes T&D emissions from consumption under operational control)	11,987	11,447	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	18.80%
Mandatory	18.80%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO₂-e)	86.49
Residual scope 3 emissions (t CO₂-e)	11.45
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	86.49
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	11.45
Total emissions liability (t CO₂-e)	97.94

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	56,277	56,277	41,082	3,377	0	0
SA	0	0	0	0	0	0
VIC	70,019	70,019	59,516	4,901	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)	126,296	126,296	100,598	8,278	0	0
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	0	0	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)	0	0	0	0		
Total electricity (grid + non grid)	126,296					

Residual scope 2 emissions (t CO ₂ -e)	100.60
Residual scope 3 emissions (t CO ₂ -e)	8.28
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	100.60
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	8.28
Total emissions liability	108.88

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
<p><i>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.</i></p>		

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
<p><i>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.</i></p>		

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
Regional office	Immaterial
Food	Immaterial
Postage, courier and freight	Immaterial
Refrigerants	Immaterial

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
Manila office	N	N	N	N	N	<p>Size: The office is small compared to Australian operations, and would not be large compared to the total emissions from electricity, stationary energy, and fuel emissions related to the Australian operations.</p> <p>Influence: We have limited control or ability to influence the emissions or operating procedures of this office.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our business given the overseas location and limited activity.</p> <p>Outsourcing: These are not outsourced activities, but the organisation has limited ability to introduce or implement operating policies that would result in emissions. We have not previously undertaken this activity within our emissions boundary.</p>



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