



PUBLIC DISCLOSURE STATEMENT

GREENBOX ARCHITECTURE PTY LTD

ORGANISATION CERTIFICATION

CY2022


Australian Government

Climate Active Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Greenbox Architecture Pty Ltd
REPORTING PERIOD	1 January 2022 – 31 December 2022 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>Ella Xue Senior Associate 23/06/2023</p>



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

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Version March 2023.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	153 tCO ₂ -e
OFFSETS USED	100% VCU's
RENEWABLE ELECTRICITY	74%
CARBON ACCOUNT	Prepared by Pangolin Associates
TECHNICAL ASSESSMENT	29/09/2023 Pangolin Associates Next technical assessment due: CY2025 report

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2. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the calendar year from 1 January 2022 to 31 December 2022 and covers the operation of the Sydney office of Greenbox Architecture Pty Ltd (ABN 79 139 779 098).

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.

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 (CO₂), methane (CH₄), nitrous oxide (N₂O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs).

Organisation description

Greenbox Architecture (ABN 79 139 779 098) is a multi-disciplinary design practice. Based in Sydney, Greenbox has expertise in delivery of projects both in capital cities and regional Australia, as well as throughout Asia Pacific. Since 2009, our progressive, collaborative and responsive approach continues to exceed our clients and project partners expectations.

Our projects range in scope and complexity. They all receive the same attention and focus, including director level involvement in every project.

Greenbox sees this as a core strength for our design services and a foundation on which we have built our business. We bring a wealth of expertise and the complementary skills of passionate team members who love what they do. These talented professionals also possess the technology, due diligence and functional hands-on skills that we see as critical in delivering a responsive, well considered and forward-thinking, problem-solving result.

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 Greenbox Architecture'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 & Facilities
Base building utilities
Climate Active Carbon
Neutral Services (Flights,
Paper)
Electricity
Food
Horticulture and Agriculture
ICT services and equipment
Office equipment & supplies
Postage, courier and freight
Professional Services
Refrigerants
Staff Commute
Stationary fuels
Transport (Air)
Transport (Land)
Waste
Water
Working from home

Non-quantified

N/A

Outside emission boundary

Excluded

N/A

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

As part of our emissions reduction strategy, Greenbox has implemented several strategies towards specific reduced emission targets. These targeted approaches are aimed at achieving our overarching goal of reducing total emissions by 30% by 2030, compared to our baseline emissions from CY2019.

Scope 1 emissions:

- Company car travel reductions
 - During the next 5 years, we will be actively reducing individual car usage by 30%.

Scope 2 emissions:

- Electricity
 - We have been more efficient than our base CY2019 emissions.
 - Our aim is to switch to a renewable electricity plan by the end of CY2023.

Scope 3 emissions:

- Travel Reductions
 - During the next 5 years, we will be actively reducing both local and international staff travel
 - We aim to reduce international flights by 30% by December 2027 based on CY2019
- Furniture
 - In CY2022, our office received a brand new fit-out. Our goal is to promote sustainability by minimizing the need for new furniture.
- Paper & Stationary
 - We aim to reduce paper and ink usage
 - Transition to paper products that contain more recycled content and are FSC-certified by the conclusion of CY2023.
 - By end of 2023, transition to pen refills to help reduce landfill and reuse products more than once.
- Carbon Neutral Suppliers
 - We aim to use carbon-neutral suppliers wherever possible as part of our ongoing emission strategy for general products and merchandise
 - By 2025, we aim to be sourcing 60% of our supplies through carbon-neutral suppliers
- Waste
 - Our goal is to reduce landfill waste and sort out compostable waste from general waste by 30% before 2025.

Emissions reduction actions

As our emissions reduction strategy evolves, we are already celebrating some wins along the way. To date we have:

- Reduced both local and international staff travel from our baseline CY2019.
- Reduced our electricity and waste emissions by moving to a more efficient office tenancy.
- Had ongoing reduction in computer equipment over the past 12 months.
- Had moved our IT services into the cloud by end of 2021 reducing the need for more equipment.
- Set up flexible work arrangements to allow structured, ongoing working from home. This reduces employees' travel and commute by 40%.

5.EMISSIONS SUMMARY

Emissions over time

		Emissions since base year	
		Total tCO ₂ -e (without uplift)	Total tCO ₂ -e (with uplift)
Base year/Year 1:	2019	235.92	235.92
Year 2:	2020	154.79	154.79
Year 3:	2021	146.07	146.07
Year 4:	2022	152.06	152.06

Significant changes in emissions

Comparing our baseline emissions CY2019 to our current emission in CY2022, the company has gone through Covid for two years as well as grown as a business with additional employees.

Emission source	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Reason for change
Business travel	1.4	19.3	Previous year we were in majority in COVID lockdown. Travel is back but still reduced from baseline CY2019
Electricity	38.7	18.4	More people working from home and moved to an efficient building tenancy
Computer equipment	33.9	12.4	Reduced requirement for additional equipment with IT services into the cloud
Computer and technical services (including telecommunications and software services)	43.6	56.4	We introduced in-house IT service, and additional external support to assist with company growth

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

Certified brand name	Product/Service/Building/Precinct used
Qantas	Flight travel
Reflex	Paper

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	0.9	0.9
Climate Active carbon neutral products and services	0.0	0.0	0.0	0.0
Electricity	0.0	16.3	2.2	18.4
Food	0.0	0.0	5.1	5.1
Horticulture and Agriculture	0.0	0.0	0.4	0.4
ICT services and equipment	0.0	0.0	43.4	43.4
Office equipment & supplies	0.0	0.0	13.7	13.7
Postage, courier and freight	0.0	0.0	0.02	0.02
Professional Services	0.0	0.0	26.2	26.2
Refrigerants	1.1	0.0	0.0	1.1
Stationary Energy (gaseous fuels)	1.3	0.0	0.3	1.6
Transport (Air)	0.0	0.0	19.3	19.3
Transport (Land)	2.3	0.0	9.4	11.6
Waste	0.0	0.0	2.7	2.7
Water	0.0	0.0	0.5	0.5
Working from home	0.0	0.0	7.1	7.1
Total emissions	4.6	16.3	131.2	152.1

Uplift factors

N/A

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emissions to offset is 152.1 t CO₂-e. The total number of eligible offsets used in this report is 153. Of the total eligible offsets used, 0 were previously banked and 153 were newly purchased and retired. 0 are remaining and have been banked for future use.

Co-benefits

N/A

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 (%)
AKOCAK HYDROELECTRIC POWER PLANT	VCU	Verra	29 May 2023	10579-230001836-230001887-VCS-VCU-279-VER-TR-1-535-01012015-31122015-0	2015	-	52	0	0	52	34%
AKOCAK HYDROELECTRIC POWER PLANT	VCU	Verra	21 June 2023	10579-230001888-230001888-VCS-VCU-279-VER-TR-1-535-01012015-31122015-0	2015	-	1	0	0	1	1%
AKOCAK HYDROELECTRIC POWER PLANT	VCU	Verra	21 June 2023	10579-230001889-230001988-VCS-VCU-279-VER-TR-1-535-01012015-31122015-0	2015	-	100	0	0	100	65%
Stapled to: Greenfleet biodiversity credits	-	-	06 June 2023	-	-	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	
Type of offset units		Eligible quantity (used for this reporting period)					Percentage of total				
Verified Carbon Units (VCUs)		153					100%				

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

Greenbox Architecture has also purchased an additional 100 tonnes of biodiversity offsets through Greenfleet. Greenfleet is a leading Australian not-for-profit environmental organisation on a mission to protect our climate by restoring forests. Greenfleet forests address critical deforestation, restore habitat for wildlife including many endangered species, capture carbon emissions to protect our climate, reduce soil erosion, improve water quality, and economically support local and indigenous communities.



This is to certify

Greenbox Architecture

offset 100.00 tonnes of CO₂-e with Greenfleet.

Your support will help us restore native forests and ecosystems, which provide crucial habitat for endangered wildlife, help counter the devastating impact of the bushfires, and reduce the impacts of climate change.

Greenfleet will plant enough biodiverse native trees on your behalf to offset these emissions.

Thank you for helping us grow our forests and grow climate hope.

A handwritten signature in black ink, appearing to read "Wayne Wescott".

Wayne Wescott | Greenfleet CEO

06/06/2023

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	0	0	0%
Total non-grid electricity	0	0	0%
LGC Purchased and retired (kWh) (including PPAs)	0	0	0%
GreenPower	41,387	0	56%
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)	13,898	0	19%
Residual Electricity	19,275	18,408	0%
Total renewable electricity (grid + non grid)	55,286	0	74%
Total grid electricity	74,561	18,408	74%
Total electricity (grid + non grid)	74,561	18,408	74%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	19,275	18,408	
Scope 2	17,022	16,256	
Scope 3 (includes T&D emissions from consumption under operational control)	2,253	2,152	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	.

Total renewables (grid and non-grid)	74.15%
Mandatory	18.64%
Voluntary	55.51%
Behind the meter	0.00%
Residual scope 2 emissions (t CO ₂ -e)	16.26
Residual scope 3 emissions (t CO ₂ -e)	2.15
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	16.26
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	2.15
Total emissions liability (t CO₂-e)	18.41

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	74,561	74,561	54,430	4,474	0	0
Grid electricity (scope 2 and 3)	74,561	74,561	54,430	4,474	0	0
NSW	0	0	0	0		
Non-grid electricity (behind the meter)	0	0	0	0		
Total electricity (grid + non grid)	74,561					

Residual scope 2 emissions (t CO ₂ -e)	54.43
Residual scope 3 emissions (t CO ₂ -e)	4.47
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	54.43
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	4.47
Total emissions liability	58.90

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

N/A – no excluded emission sources



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