



PUBLIC DISCLOSURE STATEMENT

BOWER ARCHITECTURE PTY LTD

**ORGANISATION CERTIFICATION
FY2021-22**


Australian Government
Climate Active
Public Disclosure Statement

bower



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Bower Architecture Pty Ltd
REPORTING PERIOD	1 July 2021 – 30 June 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></p> <p>Anna Lourie Director 28.10.2022</p>



Australian Government
**Department of Industry, Science,
Energy and Resources**

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1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	47 tCO ₂ -e
OFFSETS BOUGHT	100% VCUs
RENEWABLE ELECTRICITY	18.59%
TECHNICAL ASSESSMENT	Not applicable – small organisation pathway

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2. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the financial year from 1 July 2021 to 30 June 2022 and covers the Australian business operations of Bower Architecture Pty Ltd, ABN: 12 113 273 448.

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:

- 3D/26 Wellington Street, Collingwood 3066 VIC
- 8 Prince Patrick Street, Richmond 3121 VIC

The Richmond facility has been included in the emissions boundary; an office relocation from the previous Collingwood facility occurred during the reporting period.

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) as specified in the 2014 IPCC Assessment Report 5 with a 100-year horizon.

“As architects we are conscious of the impact we have on the environment and by being certified under Climate Active demonstrates transparency in our commitment to paving the way for a cleaner future.”

Organisation description

Bower Architecture is a Melbourne architecture and interior design practice formed in 2005 and led by Architect Directors Chema Bould and Anna Dutton.

We strive to create timeless places that are loved by our clients and those who experience them. We maximise every opportunity, revealing smart, memorable spaces that inspire, challenge, engage and excite.

Many clients are drawn to us because of our approach to sustainability. Sustainability is integral to all of our projects and we discuss it from the very beginning with our clients.

For us, sustainability starts with building quality that lasts the long term. A building that is used and loved for over 50 years is a sustainable building. Building from this foundation, we plan our buildings to make the most of natural light and processes such as natural ventilation and passive heating and cooling. We carefully plan shading and thermal mass to create stable indoor temperatures while also maximising efficiency and minimising waste in terms of space and materials. Maximising durability and using local, sustainably and ethically sourced materials and products whenever possible is a given. Most of our projects feature solar power and batteries and if clients are keen to go further, we can assist them with other choices like eliminating reliance on natural gas (a non-renewable resource), choosing certified Green Power or making their project carbon neutral. All these steps aim to significantly reduce or even eliminate the long-term lifespan energy costs to our clients and the environment.

Bower Architecture has been proudly carbon neutral since financial year 2019 and we commit to have all our new projects and major renovations to be carbon neutral by 2030.

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.

Inside emissions boundary		Outside emission boundary
<p><u>Quantified</u></p> <ul style="list-style-type: none"> Accommodation and facilities Cleaning and Chemicals Climate Active carbon neutral products and services Construction Materials and Services Electricity Food ICT services and equipment Office equipment & supplies Postage, courier and freight Professional Services Refrigerants Transport (Land and Sea) Waste Water Working from home 	<p><u>Non-quantified</u></p> <ul style="list-style-type: none"> Stationary energy 	<p><u>Excluded</u></p> <p>N/A</p>

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

Bower has a future emissions reduction target of 40% from a base year of FY2020-21 by 2027.

Moving forward, Bower is now in a good position to see a significant reduction in the carbon footprint for the coming financial years; we intend to reduce our emission by 40% on average by 2027.

Some of the emission reduction strategies involves:

1. Assessment and improvement of our process targeting on areas with highest emissions.

IT support services constitute more than 11% of our emission, Bower commits to reviewing the process for reducing this emission significantly by encouraging the IT support team to go emission free as well.

In the past couple of years Bower has invested in new equipment to ensure we are efficient and up to date with technology. For future equipment procurement, we commit to prioritising any available carbon-neutral equipment available on the market. Due to recent equipment and systems upgrades and the further use of cloud computing, we expect that emissions due to IT equipment will decrease the overall office emission by at least 10% in the next two years.

Since investing in digital markup software and equipment, we have seen a significant drop in paper usage. Bower commits to paperless services and encourages clients to accept digital copies of drawings, to reduce printing emissions.

2. Facilitate an increase in climate change awareness within the organisation

Bower commits to ensuring that when everyone within the organisation schedule meetings, they are conscious of our carbon emission through travels to remote sites. Where possible staff members will be encouraged to share cars for site visits or use virtual meetings via zoom instead of travel. Public transport use will be facilitated to get to and from work for staff. Bower will develop a policy for site visits and meetings, with staff input by 2024, which will reduce site visits emissions by at least 15% by end of 2027.

3. Commit and continue supporting suppliers who provides emission free products or services.

Bower will identify our most significant products, services, suppliers, and providers, seeking opportunities to purchase emission free or lower emissions products and services. We aim at replacing 15% of our supply chain with Carbon neutral services by 2027. Currently Bower already purchases sustainable products and services such as Recycled paper, sustainably sourced toilet-paper rolls and carbon neutral electricity. By specifying local, sustainable, responsible products and materials as a priority, Bower aims at creating a better awareness.

4. Ongoing training and exposure on how to improve our daily office operations and procedures to increase awareness on climate change to better align with Australia's 2030 vision.

Bower will facilitate an increase in climate change action, knowledge and capability across the organization by encouraging Bower's team to attend sustainability focused webinars and conferences to learn how others are addressing their emission reduction strategies and how to adopt similar strategies within our organisation. Bower also commits to allocate time and resources by 2023 for the development of a Sustainability Action Plan within the office.

Emissions reduction actions

Bower has made procurement choices in the last financial year that have resulted in decreased emissions for Computer and Technical Services, and Printing & Stationery; these choices have also eliminated the use of diesel oil during the reporting period.

5. EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e
Base Year/Year 1:	2020-2021	30.5
Year 2:	2021-2022	46.6

Significant changes in emissions

Bower has seen a significant change in the company emission for FY2021-22. Main factors that increased the carbon emissions were the office relocation. This added additional emission which we normally would not require during a normal year. This also meant that new equipment and furniture had to be purchased.

Emission source name	Current year (tCO ₂ -e)	Previous year (tCO ₂ -e)	Detailed reason for change
Photographic services	3.2	0.0	Organic growth
Subscriptions & periodicals	2.5	0.4	Organic growth
Food & catering	3.1	0.0	Organic growth
Computer and electrical components, hardware and accessories	4.2	0.0	Office relocation/organic growth
Computer and technical services	5.2	6.2	Procurement choices
Office equipment	3.1	0.0	Office relocation/organic growth
Accounting services	3.2	2.2	Organic growth
WFH emissions	4.7	6.7	Decrease in WFH post-COVID

Use of Climate Active carbon neutral products and services

Bower Architecture used the following Climate Active carbon neutral products and services in FY2021-22:

- 100% Australian Opal Paper (A4 Reflex paper)
- Powershop electricity (see Appendix D)

This assessment and Climate Active submission was prepared with the assistance of [Pangolin Associates](#) and these services are also carbon neutral.

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 CO ₂ -e)	Sum of scope 2 (t CO ₂ -e)	Sum of scope 3 (t CO ₂ -e)	Sum of total emissions (t CO ₂ -e)
Accommodation and facilities	0.00	0.00	0.00	0.00
Cleaning and Chemicals	0.00	0.00	0.86	0.86
Climate Active Carbon Neutral Products and Services	0.00	0.00	0.00	0.00
Construction Materials and Services	0.00	0.00	0.59	0.59
Electricity	0.00	0.16	0.00	0.16
Food	0.00	0.00	3.92	3.92
ICT services and equipment	0.00	0.00	11.24	11.24
Office equipment & supplies	0.00	0.00	3.53	3.53
Postage, courier and freight	0.00	0.00	1.58	1.58
Professional Services	0.00	0.00	12.18	12.18
Refrigerants	0.59	0.00	0.00	0.59
Transport (Land and Sea)	0.35	0.00	4.11	4.46
Waste	0.00	0.00	0.26	0.26
Water	0.00	0.00	0.09	0.09
Working from home	0.00	0.00	4.71	4.71
Total	0.94	0.16	43.07	44.17

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	2.220
Banking and storage	0.237
Total of all uplift factors	2.46
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	46.63

6. CARBON OFFSETS

Offsets retirement approach

In arrears	
1. Total number of eligible offsets banked from last year's report	0
2. Total emissions footprint to offset for this report	47
3. Total eligible offsets required for this report	47
4. Total eligible offsets purchased and retired for this report	47
5. Total eligible offsets banked to use toward next year's report	0

Co-benefits

Midilli Hydroelectric Power Plant

The Project Activity (PA) utilizes the Yeşilirmak waters in a diversion-type run-of-river hydro power scheme to generate electricity with zero carbon emissions for the Turkish Power Grid. With regards to social impacts, significant positive employment effects occurred especially during the construction and installation period. Management, operation, and maintenance of the HPP creates permanent jobs which require high qualification, contributing to capacity building and know-how dissemination in Turkey. Moreover, since it is a renewable energy project, it contributes to achieve nationally stated sustainable development priorities which were indicated like in the law on use of renewable energy resources for electricity generation. Introduction purpose of this Law; the use of renewable energy resources for electrical energy generation to spread these resources to the economy in a reliable, economical, and quality manner, decreasing greenhouse gas emissions, utilizing wastes, protecting the environment, and developing the manufacturing sector needed to achieve these objectives. Moreover, sustainable development goals outcomes and the actual results of the contributed sustainable development indicators by the project during the monitoring period such as Climate Action and Affordable and clean energy.

GreenFleet

Bower Architecture has also purchased an additional 47 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. The Greenfleet certificate can be seen under Appendix A.

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 (%)
Midilli Hydroelectric Power Plant, Turkey	VCUs	Verra	27 th October 2022	12430-410526939-410526985-VCS-VCU-290-VER-TR-1-1330-01012015-31122015-0	2015	-	47	0	0	47	100%
<i>Stapled to</i>											
GreenFleet Biodiversity offsets	-	-	27 th October 2022	-	-	47	-	-	-	-	-
Total offsets retired this report and used in this report										47	
Total offsets retired this report and banked for future reports									0		
Type of offset units		Quantity (used for this reporting period claim)					Percentage of total				
Verified Carbon Units (VCUs)		47					100%				

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

N/A

APPENDIX A: ADDITIONAL INFORMATION



This is to certify

Bower Architecture & Interiors

offset 47.00 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

27/10/2022

Thank you

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 (kgCO 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 & 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)	36	0	19%
Residual Electricity	158	157	0%
Total grid electricity	194	157	19%
Total Electricity Consumed (grid + non grid)	194	157	19%
Electricity renewables	36	0	
Residual Electricity	158	157	
Exported on-site generated electricity	0	0	
Emissions (kgCO ₂ -e)		157	
Total renewables (grid and non-grid)	18.59%		
Mandatory	18.59%		
Voluntary	0.00%		
Behind the meter	0.00%		
Residual Electricity emission footprint (tCO₂-e)	0.157		
<i>Figures may not sum due to rounding. Renewable percentage can be above 100%</i>			

Location-based approach summary

Location-based approach	Activity Data (kWh)	Scope 2 Emissions (kgCO ₂ -e)	Scope 3 Emissions (kgCO ₂ -e)
VIC	194	177	19
Grid electricity (scope 2 and 3)	194	177	19
VIC	0	0	0
Non-grid electricity (Behind the meter)	0	0	0
Total electricity consumed	194	177	19

Emission footprint (tCO₂-e)	0.196
<i>Scope 2 Emissions (tCO₂-e)</i>	0.177
<i>Scope 3 Emissions (tCO₂-e)</i>	0.019

Carbon neutral electricity offset by Climate Active product	Activity Data (kWh)	Emissions (kgCO ₂ -e)
Powershop	7,384	0

Climate Active carbon neutral electricity is not renewable electricity. The emissions have been offset by another Climate Active member through their product certification.

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. These emissions are accounted for through an uplift factor. 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
Stationery energy	Yes	N/A	N/A	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.

Bower Architecture Pty Ltd followed the small organisation pathway and have not excluded any of the deemed relevant emissions from the small organisation boundary.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
N/A	N/A	N/A	N/A	N/A	N/A	N/A



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