



PUBLIC DISCLOSURE STATEMENT

SAM CRAWFORD ARCHITECTS

**ORGANISATION CERTIFICATION
FY2021-2022**

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Elemental Architecture Pty Ltd trading as Sam Crawford Architects
REPORTING PERIOD	Financial year 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><i>Sam Crawford</i></p> <hr/> <p>Sam Crawford Director 24 January 2023</p>



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

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Version March 2022. To be used for FY20/21/CY2021 reporting onwards.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	49 tCO ₂ -e
OFFSETS BOUGHT	100% ACCUs
RENEWABLE ELECTRICITY	113.98%
TECHNICAL ASSESSMENT	N/A - 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 Elemental Architecture Pty Ltd trading as Sam Crawford Architects, ABN: 13 165 409 567.

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:

- Unit 4, 30 Wilson Street Newtown NSW 2042

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

Established in 1999, Sam Crawford Architects (SCA) is an experienced and innovative architectural practice based in the inner-west of Sydney, NSW. We specialise in public, cultural and residential projects, and seek out creative opportunities for architecture in projects of all scales and budgets. Our work has been widely published, nationally and internationally, and has been recognised by numerous Local, State and National awards. The work of SCA reflects our passion, sensibility and experience in delivering environmentally and socially responsible architecture.

“Being carbon neutral is critical to the future of humanity. Transparency encourages others to follow. That is why Climate Active matters to Sam Crawford Architects”

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 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

Quantified

Electricity
Telecommunications
Paper
Carbon Neutral Paper
Merchandising
Office Supplies
Office Equipment
Employee Commute
Working From Home
Electric car
Cleaning Services
Food & Catering
Postage
Photography
Printing
Advertising
Taxi
Accounting Services
Insurance
Professional Development
Professional Memberships
IT Subscriptions & Support
Staff Amenities
Building and facility
maintenance and repair
services
Refrigerant
Waste – Landfill & Recycling

Non-quantified

N/A

Outside emission boundary

Excluded

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.

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Our organisation commits to continuously reducing our emissions per employee hour, compared to the base year inventory. As our current premises are too small, we will be moving to a larger space from 1 January and are therefore unable to provide absolute timeframes for reduction. Our strategy will include the following actions:

- Measuring energy consumption and maintaining Carbon Neutral status annually.
- Generating and utilising solar energy for our workplace needs, with a new solar PV system installed in September 2021.
- Transitioning towards a paperless office through increased use of digital mark-up programs, year on year.
- Encouraging staff to opt for greener ride-sharing options such as low or no-emissions vehicles, when available, for work-site travel.
- Reducing waste emissions by improving waste disposal habits.
- Promoting our commitments to our clients, consultants, and suppliers to encourage broader support for sustainable change within our industry.

Emissions reduction actions

We installed a new solar PV system in September 2021 for our electricity needs and choose 100% recycled carbon neutral paper products whenever available.

5. EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e
Base year:	2019–20	35.84
Year 1:	2020–21	53.56
Year 2:	2021–22	48.04

Significant changes in emissions

Emission source name	Current year (tCO ₂ -e)	Previous year (tCO ₂ -e)	Detailed reason for change
Food & catering	6.4	5.2	Due to business growth & increased FTE (an 18.5% increase in hours worked from previous year).
Printing and stationery	2.4	7.9	Increased use of 100% recycled Carbon Neutral paper products.
Petrol: Small Car	2.7	1.2	Employee commute has increased post covid lockdowns.
Commercial and Industrial Waste	2.3	0.8	Due to business growth & increased FTE. In addition, fewer employees WFH now that covid has largely passed.

Use of Climate Active carbon neutral products and services

100% recycled Reflex carbon neutral paper was purchased by Sam Crawford Architects in FY2021-22.

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 (tCO ₂ -e)	Sum of Scope 2 (tCO ₂ -e)	Sum of Scope 3 (tCO ₂ -e)	Sum of total emissions (tCO ₂ -e)
Cleaning and Chemicals	0.00	0.00	0.73	0.73
Climate Active Carbon Neutral Products and Services	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00
Food	0.00	0.00	6.37	6.37
ICT services and equipment	0.00	0.00	15.50	15.50
Office equipment & supplies	0.00	0.00	3.72	3.72
Postage, courier and freight	0.00	0.00	0.04	0.04
Professional Services	0.00	0.00	4.04	4.04
Refrigerants	0.49	0.00	0.00	0.5
Transport (Land and Sea)	0.00	0.00	5.07	5.07
Waste	0.00	0.00	2.28	2.3
Working from home	0.00	0.00	1.81	1.81
Total	0.49	0.00	39.56	40.04

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
Third party & equipment uplift	5.71
Mandatory 5% uplift for small organisations	2.29
Total of all uplift factors	7.99
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	48.04

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 (tCO ₂ -e)	49
3. Total eligible offsets required for this report	49
4. Total eligible offsets purchased and retired for this report	49
5. Total eligible offsets banked to use toward next year's report	0

Co-benefits

The Fish River Fire Project – Aboriginal Carbon Foundation

The Fish River Fire Project, located in the Northern Territory, is an Aboriginal carbon farming project which is lead and managed by Aboriginal ranger groups and Traditional Owners, providing core benefits to the community. This project involves strategic and planned burning of savanna areas in the high rainfall zone during the early dry season to reduce the risk of late dry season wild fires. By burning in the early dry season when fires are cooler and patchy, and burning less country, there will be fewer emissions of these gases and an environmental benefit. Reducing fire emissions is a lot about applying traditional patchwork burning. These benefits resonate with today's generation and provide pathways for inter-generational learning, connection to country and wealth generation. The carbon farming projects and initiatives provide a sustainable business model, which extends land management and conservation work and provides core benefits in a range of areas. This includes social, cultural, environmental, economic, health and political self-determination, such as:

- Education of children by Elders in traditional knowledge, especially caring for country.
- Increased retention of language and identity, recovery of biodiversity through the protection of native species of flora and fauna.
- Increased community harmony, through enhanced relationships.
- Increased opportunities for women to participate and benefit from project.
- Secure employment for people living in remote communities.
- Development of income generation projects.
- Improved spiritual wellbeing through the regular completion of cultural obligations to country.
- Increased management of tourists visiting country and reduction of their impacts and achievement of Sustainable Development Goals at local and national levels between others.

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 (%)
Fish River Fire Project	ACCUs	ANREU	3 rd October 2022	8,330,786,834 - 8,330,786,882 *	2021-22	0	49	0	0	49	100%
Total offsets retired this report and used in this report										49	
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				
Australian Carbon Credit Units (ACCUs)		49					100%				

*See Appendix A for evidence of registry transaction record.

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

The following RECs have been surrendered to reduce electricity emissions under the market-based reporting method.

1. Large-scale Generation certificates (LGCs)*	0
2. Other RECs	0

* LGCs in this table only include those surrendered voluntarily (including through PPA arrangements), and does not include those surrendered in relation to the LRET, GreenPower, and jurisdictional renewables.

Project supported by LGC purchase	Eligible units	Registry	Surrender date	Accreditation code (LGCs)	Certificate serial number	Generation year	Quantity (MWh)	Fuel source	Location
N/A									
Total LGCs surrendered this report and used in this report									

APPENDIX A: ADDITIONAL INFORMATION

Fish River Fire Project – Aboriginal Carbon Foundation ACCUs retirement

The screenshot displays the Australian National Registry of Emissions Units (ANREU) website. The page title is "Australian National Registry of Emissions Units" and the user is logged in as "Rowan Foley / Industry User". The main content area shows "Transaction Details" for transaction ID AU24151, which is in a "Completed (4)" status. The transaction type is "Cancellation (4)", initiated and approved by "Foley, Rowan Paul Bulmer". The comment states: "Retired on behalf of Elemental Architecture Pty Ltd T/as Sam Crawford Architects Climate Active emissions for FY2022".

Below the transaction details, there are sections for "Transferring Account" and "Acquiring Account". The transferring account is AU-2798, "Aboriginal Carbon Fund Limited". The acquiring account is AU-1068, "Australia Voluntary Cancellation Account", held by the "Commonwealth of Australia".

A "Transaction Blocks" table is also present, showing one block with the following details:

Party	Type	Transaction Type	Original CP	Current CP	ERF Project ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial Range	Quantity
AU	KACCU	Voluntary ACCU Cancellation			EOP100517					2021-22		8,330,786,834 - 8,330,786,882	49

At the bottom, there is a "Transaction Status History" section with columns for "Status Date" and "Status Code".

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	3,672	0	25%
Total non-grid electricity	3,672	0	25%
LGC Purchased and retired (kWh) (including PPAs & Precinct LGCs)	0	0	0%
GreenPower	11,138	0	75%
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)	2,071	0	14%
Residual Electricity	-2,071	-2,060	-14%
Total grid electricity	11,138	-2,060	75%
Total Electricity Consumed (grid + non grid)	14,810	-2,060	114%
Electricity renewables	16,881	0	
Residual Electricity	-2,071	-2,060	
Exported on-site generated electricity	813	-593	
Emissions (kgCO ₂ -e)		0	
Total renewables (grid and non-grid)	113.98%		
Mandatory	13.98%		
Voluntary	75.21%		
Behind the meter	24.79%		
Residual Electricity emission footprint (tCO₂-e)	0		

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 (kgCO ₂ -e)	Scope 3 Emissions (kgCO ₂ -e)
ACT	0	0	0
NSW	11,138	8,688	780
SA	0	0	0
VIC	0	0	0
QLD	0	0	0
NT	0	0	0
WA	0	0	0
TAS	0	0	0
Grid electricity (scope 2 and 3)	11,138	8,688	780
ACT	0	0	0
NSW	3,672	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)	3,672	0	0
Total electricity consumed	14,810	8,688	780

Emission Footprint (tCO₂-e)	9.47
Scope 2 Emissions (tCO ₂ -e)	8.69
Scope 3 Emissions (tCO ₂ -e)	0.78

Climate Active carbon neutral electricity summary

Carbon neutral electricity offset by Climate Active product	Activity Data (kWh)	Emissions (kgCO ₂ -e)
N/A	0	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
N/A	N/A	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.

The emissions from air transport and use of accommodation and facilities are automatically deemed relevant as part of the small organisation pathway. These emission categories have been excluded from this carbon inventory as they do not occur in this reporting period.

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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