## PUBLIC DISCLOSURE STATEMENT

**MORRISON & BREYTENBACH ARCHITECTS** 

ORGANISATION CERTIFICATION FY2021–22

Australian Government

### Climate Active Public Disclosure Statement

# morrison & breytenbach architects



An Australian Government Initiative

Climate

NAME OF CERTIFIED ENTITY	Morrison & Breytenbach Architects Pty Ltd
REPORTING PERIOD	1 July 2021 – 30 June 2022 Arrears report
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.
	Yvette Breytenbach Director 29/11/2022



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Version March 2022.



### 1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	21 tCO <sub>2</sub> -e
OFFSETS BOUGHT	100% VERs
RENEWABLE ELECTRICITY	N/A (location-based method used)
TECHNICAL ASSESSMENT	N/A (Small Organisation)

### Contents

1.	Certification summary	4
2.	Carbon neutral information	5
3.	Emissions boundary	7
4.	Emissions reductions	9
5.	Emissions summary	.10
6.	Carbon offsets	.12
7. Re	enewable Energy Certificate (REC) Summary	.15
Арр	endix A: Additional Information	.16
Арр	endix B: Electricity summary	.17
Арр	endix C: Inside emissions boundary	.19
Арр	endix D: Outside emissions boundary	.20



### 2. CARBON NEUTRAL INFORMATION

### **Description of certification**

Australian business operations of company MORRISON & BREYTENBACH ARCHITECTS PTY LTD.

### **Organisation description**

Morrison & Breytenbach Architects Pty Ltd (ABN 95 084 072 506) is a successful Tasmanian architectural practice that delivers exemplar projects on a continual basis that have received industry recognition in State, National and International Awards programs. The practice integrates a strong social and environmentally sustainable focus into their work.

Morrison & Breytenbach Architects is widely recognised for integrating technical innovation, energy efficient sustainable design, and use of recycled materials with architectural vision and excellence. The practice delivered Tasmania's first two 6 star Green Star GBCA certified buildings.

Morrison & Breytenbach Architects is a registered company. It was established in 1992 and became incorporated in 1998. Its office is located in Warwick Street, Hobart, Tasmania. The company Directors are James Morrison and Yvette Breytenbach:

### James Morrison

- Fellow of the Royal Australian Institute of Architects (FRAIA)
- B.Arch
- (Tas) Building practitioner Accreditation No CC1005U
- RAIA: Membership No 22021 (Tas: Reg.No 725; )
- RIBA, ARB (UK) Reg No 057397C
- Green Star GBCA expertise
- 2012-2020 Chairperson Learning Environments Australasia, Tasmanian branch

### **Yvette Breytenbach**

- Fellow of the Royal Australian Institute of Architects (FRAIA)
- B.Arch, Soc Sci Hons
- RAIA: Membership No 27346 (Tas: Reg No 570; )
- 2017 2019: President of the Australian Institute of Architects Tasmanian Chapter, member National Council AIA and member Board of Architects.

A diagram of the current company structure is shown below. The Directors and employees are required to undertake a number of roles, often simultaneously. The Directors are responsible for the QMS, short and long-term strategic plans to manage opportunities and risks, and overall practice decisions and operation informed by strategic plans. They are responsible for the financial management of the practice and are ultimately responsible for the oversight of all projects. Currently the Directors also fulfil Design Architect, Quality Manager, Design Reviewer and certain Office Manager roles.

"Climate change is a global existential crisis which we believe is incumbent on us all to address. Independently certified carbon neutrality for our architectural practice is one of the measures that Morrison & Breytenbach Architects is undertaking to mitigate against

climate change."





Diagram: Morrison & Breytenbach Architects Practice Structure



### **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.





### 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**

Morrison & Breytenbach Architects commits to reduce emissions by at least 30% from 2020 levels by 2030.

Over the next 3 years, we plan to:

- When cars require replacement, prioritise low emissions, preferably all-electric.
- Encourage staff to use active and public transport to get to/from work.
- Utilise video conferencing where possible to reduce travel.
- Reduce volume of paper printing.
- Where possible, utilise suppliers who provide carbon neutral products and service providers who are certified carbon neutral.
- Begin transitioning to Green Power

### **Emissions reduction actions**

Morrison & Breytenbach Architects replaced old inefficient heaters with new efficient heat pumps in June 2022. We expect this will result in a reduction in electricity use in future years.

In 2021/22, we transitioned to all air travel being certified carbon neutral. This reduced our inventory by  $1,130 \text{ kgCO}_2$ -e this year.

We also transitioned to 100% certified carbon neutral paper. We had previously used carbon neutral A4 paper, but some larger sizes had not been carbon neutral.

Increased bicycle use resulted in staff commuting by car reduced from 96% to 85%.



### 5.EMISSIONS SUMMARY

### **Emissions over time**

Emissions since base year				
		Total tCO <sub>2</sub> -e		
Base year / Year 1:	2019–20	34.7		
Year 1:	2020–21	17.9		
Year 2 (this year):	2021–22	20.3		

### Significant changes in emissions

Emission source name	Current year (tCO <sub>2</sub> -e and/ or activity data)	Previous year (tCO <sub>2</sub> -e and/ or activity data)	Detailed reason for change
Total net electricity emissions (Location based)	1,581	1,309	Failure of old office heating required an inefficient stop- gap solution. New efficient heaters were installed late in the financial year and are expected to reduce electricity use in future years.
Telecommunications	1,351	1,021	Inclusion of home office in inventory
Office equipment	2,017	385	Purchased new efficient heat pumps, which are expected to reduce overall emissions inventory in future
Accounting services	2,066	768	Bookkeeping was outsourced due to organic growth
Petrol / Gasoline post-2004	6,671	4,041	Organic growth in remote projects requiring additional travel for site visits
Computer and electrical components, hardware and accessories	1,232	2,879	Natural year-to-year fluctuation in computing hardware requirements



Certified brand name	Product or Service used
Virgin Australia	Certified carbon neutral flights
Qantas Airways	Certified carbon neutral flights
Opal Australian Paper	Various paper products

### Use of Climate Active carbon neutral products and services

### **Organisation 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 (tCO <sub>2</sub> -e)	Sum of Scope 2 (tCO <sub>2</sub> -e)	Sum of Scope 3 (tCO <sub>2</sub> -e)	Sum of total emissions (tCO <sub>2</sub> -e)
Accommodation and facilities	0.00	0.00	0.30	0.30
Climate Active Carbon Neutral Products and Services	0.00	0.00	0.00	0.00
Electricity	0.00	1.58	0.00	1.58
ICT services and equipment	0.00	0.00	2.58	2.58
Office equipment & supplies	0.00	0.00	2.19	2.19
Postage, courier and freight	0.00	0.00	0.03	0.03
Professional Services	0.00	0.00	2.27	2.27
Transport (Land and Sea)	6.40	0.00	4.45	10.85
Waste	0.00	0.00	0.52	0.52
Water	0.00	0.00	0.00	0.00
Total	6.40	1.58	12.34	20.32

### **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.

For small organisation certifications, a 5% uplift must be applied to the emissions total.

Reason for uplift factor	tCO <sub>2</sub> -e
Compulsory 5% uplift factor for small organisations	1.016
Total of all uplift factors	1.016
<b>Total footprint to offset</b> (total net emissions from summary table + total uplifts)	21.34



### 6.CARBON OFFSETS

### **Offsets retirement approach**

In a	irrears	
1.	Total number of eligible offsets banked from last year's report	4
2.	Total emissions footprint to offset for this report	22
3.	Total eligible offsets required for this report	18
4.	Total eligible offsets purchased and retired for this report	19
5.	Total eligible offsets banked to use toward next year's report	1

### **Co-benefits**

### Buenos Aires Renewable Energy Project, Brazil

Based in a region prone to poverty and severe drought, this initiative tackles one of the major causes of deforestation in Brazil: illegal logging.

The project is located in the Caatinga, an exclusively Brazilian biome, which occupies around 844,453 Km<sup>2</sup>, around 11% of the whole country territory. Despite being rich in natural resources, the Caatinga is one of the most threatened ecosystems on the planet. In a region where the shortage of rivers leads to less access to electric energy, native firewood and charcoal account for 30% of the total energy utilised in the industries of the region, which has intensified the local deforestation.

The Buenos Aires project has switched the fuel used by a ceramic factory from illegal firewood to agricultural and industrial residues. This biomass would have otherwise been discarded as waste, so the fuel switch not only transforms residues into something useful, but also enables many local individuals to make a living - or complement their income – by supplying biomass waste directly to the factories.

Furthermore, the reduction in indoor air pollution from the switch has substantially improved working conditions for employees, with automated kilns that reduce heat exposure. The carbon project has become an important component of the ceramic's plans for expansion, involving new technology, improvements in work conditions and environmental management as value added for the business.

Among the community, employees and suppliers, more than 110 families directly benefit from the project's activities, in addition to the indirect impact from donations provided to local families (housing and food



donations), educational and sports institutions in the region, such as the sponsorship of a soccer team and a folk group in Pernambuco.

This project alleviates deforestation, avoids greenhouse gas emissions and promotes a more sustainable supply chain: it does this whilst also improving the livelihoods of local communities and employees. Making good, better.

Project impacts and benefits:

- Generation of income to local communities
- Improved working conditions to employees (91 employees);
- Avoidance of deforestation 1,970 ha of forest saved in the course of 10 years, the equivalent to 1,900 soccer pitches;
- Avoidance of GHG emissions 132,953 tons of CO2e avoided in 10 years.

### **BaumInvest Mixed Reforestation in Costa Rica**

The project provides secure, long-term employment in this rural and underdeveloped area of northern Costa Rica.

Fair working conditions include accident- and health- as well as pension insurance coverage, personal protective equipment and continuous education and training.

25% of the total project area are managed as nature reserves, where remnant forests and wetlands are preserved as natural habitats and biological corridors for many endangered wildlife species of the tropical Central America bioregion.

Also, the high proportion of native tree species in mixed stands creates new habitats particularly suitable to serve as buffer zones - for example between the project area La Virgen and the bordering Braulio Carrillo National Park.

Baird's Tapir (Tapirus bairdii), Jaguar (Panthera onca) and the Great Green Macaw (Ara ambiguus) are just a few examples of species of the "IUCN Red List of Threatened Species", which have already been sighted within our project area.

Biodiversity monitoring of amphibians and reptiles is an integral part of the project, since their present occurrence and species composition as well as the state of their populations at a given place can readily be interpreted as a reflection of habitat quality and land use compatibility.

The production of high-quality timber helps to reduce Costa Rica's dependency on timber imports and to decrease the pressure to exploit the remaining old-growth rainforests of the country.

Careful site selection and private land ownership enhances the permanence and success of the project activity: Costa Rica stands for a long democratic history, social peace and economic stability. Land tenure is clearly regulated in the cadastral land registry and reduces the potential risk of land use conflicts.



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# 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 location-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	3,117	0	24%
Total non-grid electricity	3,117	0	24%
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)	1,837	0	14%
Residual Electricity	8,045	8,004	0%
Total grid electricity	9,882	8,004	14%
Total Electricity Consumed (grid + non grid)	12,999	8,004	38%
Electricity renewables	4,954	0	
Residual Electricity	8,045	8,004	
Exported on-site generated electricity	5,639	-4,116	
Emissions (kgCO2e)		3,888	

Total renewables (grid and non-grid)	38.11%
Mandatory	14.13%
Voluntary	0.00%
Behind the meter	23.98%
Residual Electricity Emission Footprint (TCO2e)	4
Figures may not sum due to rounding Beneweble perce	ntana aon ha ahaya 1000/

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
Old	0	0	0
NT	0	0	0
WA	0	0	0
Tas	9,882	1,383	198
Grid electricity (scope 2 and 3)	9,882	1,383	198
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	3,117	0	0
Non-grid electricity (Behind the meter)	3,117	0	0
Total Electricity Consumed	12,999	1,383	198

Emission Footprint (TCO2e)	2
Scope 2 Emissions (TCO2e)	1
Scope 3 Emissions (TCO2e)	0

### Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
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. They have been non-quantified due to <u>one</u> of the following reasons:

- 1. Immaterial <1% for individual items and no more than 5% collectively
- 2. <u>Cost effective</u> Quantification is not cost effective relative to the size of the emission but uplift applied.
- 3. <u>Data unavailable</u> 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
Refrigerants	Yes	No	No	No
Cleaning and Chemicals	Yes	No	No	No



### APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

### **Excluded emission sources**

No emissions were excluded from the inventory.





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