PUBLIC DISCLOSURE STATEMENT

JBA CONSULTING ENGINEERS PTY LTD (TRADING AS JBA CONSULTING ENGINEERS)
ORGANISATION CERTIFICATION

FY2023-24

Australian Government

Climate Active
Public Disclosure Statement

An Australian Government Initiative

NAME OF CERTIFIED ENTITY	JBA Consulting Engineers Pty Ltd (trading as JBA Consulting Engineers)
REPORTING PERIOD	Financial year 1 July 2023 – 30 June 2024 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.*  Quilon Bryar Director 27/11/2024

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

Version 9.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	57.10 t CO_2-e
CARBON OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	Not applicable.
CARBON ACCOUNT	Prepared by: Heidi Fog, Carbon Neutral Pty Ltd

Contents

1. Certification summary....3
2. Certification information....4
3. Emissions boundary....6
4. Emissions reductions....8
5. Emissions summary....10
6. Carbon offsets....12
7. Renewable Energy Certificate (REC) Summary....14
Appendix A: Additional Information....15
Appendix B: Electricity summary....16
Appendix C: Inside emissions boundary....19
Appendix D: Outside emissions boundary....20

2. CERTIFICATION INFORMATION

Description of organisation certification

The Climate Active Carbon Neutral certification covers the Australian business operations of JBA Consulting Engineers Pty Ltd (ABN 61 795 312 094, ATF JBA Business Trust), trading as JBA Consulting Engineers. The operational boundary of the carbon account has been defined based on the operational control approach. Our services are not included in this certification.

This Public Disclosure Statement represents the reporting period 1 July 2023 to 30 June 2024 (FY2023-24) and this is our third year as a Climate Active carbon neutral certified organisation.

The carbon account has been prepared in accordance with the Climate Active Carbon Neutral Standard for Organisations. This entails using recognised emission factors and methods for carbon accounting published in Australia, such as the National Greenhouse Accounts (NGA) Factors, and the work of the international corporate accounting and reporting standard The Greenhouse Gas Protocol.

The greenhouse gasses included in the carbon account are the seven gasses reported under the Kyoto Protocol: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF_6) and nitrogen trifluoride (NF_3). These gasses are expressed in carbon dioxide equivalents (CO_2-e), providing the ability to present greenhouse gas emissions as one unit.

Organisation description

JBA Consulting Engineers Pty Ltd (ABN 61 795 312 094) is an integrated Building Services and Sustainability Consulting Engineering firm operating across Australia. With over 35 years of success, the principles of quality, detail design, planning and fostering close relationships is embedded in everything we say and do.

Our Location

Our office is Located at **Level 1, 24 Albert Road, South Melbourne Victoria 3205 Australia.**

Our Passion

The JBA Family are passionate and committed to Our Vision of ***a built environment that creates a better everyday life*** and working to achieving this through Our Mission of ***delivering smarter engineering solutions***. This is our passion, our drive, our inspiration and our dedication to our clients, our partners, our families, the projects we work on and the communities in which these projects help to shape.

Our Services

Building Services

MECHANICAL
Systems to achieve optimal environmental comfort and wellbeing.

FIRE PROTECTION
Protecting people and their environments from the effects of fire and smoke.

VERTICAL TRANSPORTATION
The movement of people and goods through buildings.

ELECTRICAL
Systems for power distribution, control systems and signal processing.

HYDRAULICS
Management of the flow and conveyance of water, waste, and gas.

Civil

CIVIL
Site works, roads, earthworks, pavement design and drainage infrastructure.

Sustainability

DAYLIGHT MODELLING
Analysis of the transition, filtering, shading and infiltration of sunlight in a design.

MANAGEMENT PLANS
Plans for a development's energy and sustainability initiatives at Town Planning.

TRAVEL PLANS
Plans for Green Travel using Public Transport, Bicycles and Walking.

DESIGN MANAGEMENT
Delivering environmentally responsible and resource efficient designs.

PERFORMANCE RATINGS
NatHERS Home energy ratings, NABERS, Green Star and WELL certification.

WSUD (MUSIC OR STORM)
Water Sensitive Urban Design analysis for the sustainable management of water.

Specialised

AUDIO VISUAL
Communicating and Collaborating with audible and visual systems.

LIGHTING
Feature lighting and specialised lighting designs.

CFD MODELLING
Computational Fluid analysis for performance-based solutions.

TECHNOLOGY
ICT Infrastructure to service occupants, and support and manage a building.

Waste

MANAGEMENT PLANS
Plans for the storage and disposal of rubbish, recycling, and garden waste.

Our Approach

We Listen, we Consult, we Add Value and we Deliver, this is our approach and our promise on the service we provide. Every project is unique and starts with us understanding our client's requirements and aspirations. We proactively engage and communicate with stakeholders and delivery partners to ensure we achieve successful project outcomes for our clients.

Our Integrated Management System

Our Integrated Management System utilises global best practice management programs, tools and techniques to identify, monitor, control and audit our operations and performance.

We are proud to be a JAS-ANZ Certified Organisation, accredited to Quality ISO 9001, Environment ISO 14001 and Occupational Health and Safety ISO 45001.

Certified System
Quality
ISO 9001
SAI GLOBAL

Certified System
Environment
ISO 14001
SAI GLOBAL

Certified System
ISO 45001
Occupational
Health and
Safety
SAI GLOBAL

Our Climate Active Certification works in partnership with our ISO 14001 Certification and Commitment by identifying, monitoring and taking proactive action and management of our environmental impact.

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 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

Cleaning

Electricity

Food

Stationary energy

Refrigerants

IT hardware and software

IT technical services

Telecommunications

Office equipment

Building and facility maintenance and repair services

Motor vehicle repairs and maintenance

Printing and stationery

Office paper

Accounting services

Advertising services

Legal services

Postal services

Parking & tolls

Air travel

Staff travel for business in own vehicles

Taxi

Staff commute

Staff working from home

Waste

Water

Non-quantified

All emissions sources quantified

Outside emission boundary

Excluded

Insurance

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

JBA continues to be committed to continually aim to reduce and limit emissions in all aspects of its business operations. We will continue to strive to monitor, identify and take proactive steps to minimise emissions and be advocates for the protection, preservation and restoration of our environment.

JBA committed to reduce our FY22 base year emissions footprint by at least 30% per team member on a full-time equivalent basis by 2030. We will calculate this on an intensity basis per Full Time Equivalent Team member year on year and track our progress.

We have achieved a 53% reduction in FY24, our Third Year of Certification by achieving a 1.97 t CO2-e/FTE intensity.

Reporting year	Emissions (t CO2-e)	FTE	Emissions intensity (t CO2-e/FTE)
Base year FY2021-22	123.49	28	4.41
FY2022-23	88.04	29	3.04
FY2023-24	57.10	29	1.97
Target (FY2029-30)			3.09

Actions commenced and be implemented by 31 December 2026:

- Review and maintain our carbon reduction and minimization strategies
- Review and maintain our Sustainability Policy and incorporate alignment with the United Nations Sustainable Development Goals.
- Enhance our Climate Conscious Procurement Policy to include:
    - Procure either Carbon Neutral or 100% Renewable electricity for all sites under operation.
    - Supply Chain engagement and Sustainability Policies prior to engagement for services.
    - Providers with Climate Active certified carbon neutral product(s) or service(s) will be prioritised.
    - Purchase products which feature higher efficiency ratings.
    - Procure 100% Climate Active carbon neutral certified Australian office paper

Long Term Action Targets and Commitments for July 2028:

- Uphold the absolute emissions savings we have been able to achieve across FY22-FY27.

- Uphold our status as a Climate Active carbon neutral certified Organisation.
- Our Management Team and Board of Directors will commit and build further engagement amongst colleagues, clients, suppliers and partners to become advocates for positive change and protection of our environment. As part of our ISO 14001 Certification we already endorse and publicise our Work Health & Safety, Environment and Quality Policy Statement, however will enhance this to become a specific Sustainability statement.

Emissions reduction actions

- Since July 2015 we have been ISO 14001 Certified for our Environmental Management System, this has assisted JBA in identifying, monitoring and auditing activity against environmental targets. JBA has progressively been targeting lower emissions and environmental impact through the use of an EMS.
- Since the 24th November 2020 we have purchased 100% Climate Active carbon neutral certified electricity through AGL. In the Financial Year 2022, this equaled a saving of 51tCO_2-e on our FY22 carbon inventory.
- We developed our Sustainability Policy which articulates our stance on Climate Action and Sustainability Action. The policy identifies our Carbon Neutral action and our activities and processes in support of climate action.
- We enhanced our Procurement Policy to be climate conscious.
- We continue to avoid and minimise the use of air travel.
- We have engaged with our base building management to replace and plan to replace base building infrastructure with low energy and electrified systems. In FY24, the base building undertook a complete lighting upgrade which changed all lighting to LED, sensor and time-based lighting throughout the building. We also assisted in assessing and calibrating the base building systems to minimize the use of energy in their daily operation.

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year			
		Total t CO_2-e (without uplift)	**Total t CO_2-e** (with uplift)
Base year: / Year 1:	2021-22	117.61	123.49
Year 2:	2022-23	83.85	88.04
Year 3:	2023-24	54.38	57.10

Significant changes in emissions

Significant changes in emissions			
Emission source	**Previous year emissions** (t CO_2-e)	**Current year emissions** (t CO_2-e)	**Reason for change**
Electricity (location-based method, scope 2)	17.91	12.21	The base building undertook a full LED replacement and Energy usage assessment strategy.
Computer and technical services	9.28	5.98	Asset replacement to more efficient infrastructure and systems.
Natural Gas VIC (metro) (GJ)	9.53	5.63	The base building calibrated the heating and cooling usage to better achieve efficiency of energy consumption in the building.

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

Certified brand name	Product/Service/Building/Precinct used
AGL	Electricity

Emissions summary

The electricity summary is available in Appendix B. Electricity emissions were calculated using a location-based approach.

Emission category	Scope 1 emissions (t CO_2-e)	Scope 2 emissions (t CO_2-e)	Scope 3 emissions (t CO_2-e)	Total emissions (t CO_2-e)
Accommodation and facilities	0.00	0.00	0.06	0.06
Cleaning and Chemicals	0.00	0.00	1.26	1.26
Climate Active carbon neutral products and services	0.00	0.00	0.00	0.00
Electricity	0.00	12.21	1.08	13.29
Food	0.00	0.00	0.00	0.00
ICT services and equipment	0.00	0.00	8.21	8.21
Office equipment & supplies	0.00	0.00	4.40	4.40
Postage, courier and freight	0.00	0.00	0.00	0.00
Professional Services	0.00	0.00	2.68	2.68
Refrigerants	0.00	0.00	0.00	0.00
Stationary Energy (gaseous fuels)	5.22	0.00	0.41	5.63
Transport (Air)	0.00	0.00	0.29	0.29
Transport (Land and Sea)	0.00	0.00	12.89	12.89
Waste	0.00	0.00	5.25	5.25
Water	0.00	0.00	0.20	0.20
Working from home	0.00	0.00	0.22	0.22
Total emissions (t CO_2-e)	**5.22**	**12.21**	**36.95**	**54.38**

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions that cannot be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

Reason for uplift factor	t CO_2-e
Mandatory 5% uplift for small organisations	2.72
Total of all uplift factors (t CO_2-e)	2.72
Total emissions footprint to offset (t CO_2-e) *(total emissions from summary table + total of all uplift factors)*	**57.10**

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset unit	Quantity used for this reporting period	Percentage of total units used
Verified Carbon Units (VCUs)	58	100%

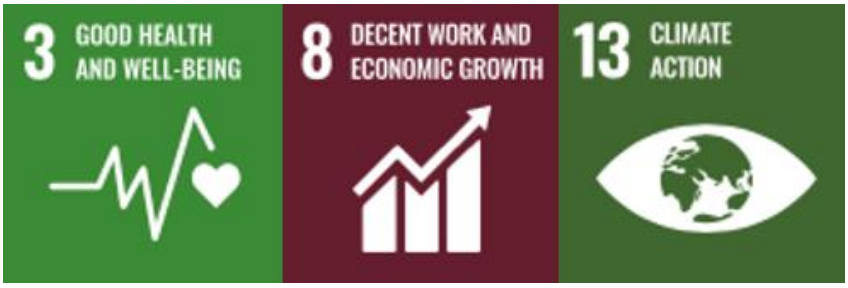
Project name	Type of offset unit	Registry	Date retired	Serial number	Vintage	Total quantity retired	Quantity used in previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period	Percentage of total used this reporting period
Solar Energy Project(s) by SB Energy Private Limited Project, India	VCU	Verra Registry	20/12/2023	8423-15977247-15977463-VCS-VCU-997-VER-IN-1-1805-01012018-31122018-0	2018	217	13	146	58	100.00%

Co-benefits

Solar Energy Project(s) by SB Energy Private Limited Project, India

The purpose of this project is to generate a clean form of electricity and involves a total capacity of 2,250 MW. During the 10 years of the first crediting period, the project is estimated to displace greenhouse gas emissions of approximately 4,354,646 t CO_2-e annually.

The project contributes to the following United Nations' Sustainability Goals:



7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

Not applicable.

APPENDIX A: ADDITIONAL INFORMATION

Not applicable.

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)	2,893	0	4%
Residual Electricity	70,180	63,864	0%
Total renewable electricity (grid + non grid)	**2,893**	**0**	**4%**
Total grid electricity	**73,073**	**63,864**	**4%**
Total electricity (grid + non grid)	**73,073**	**63,864**	**4%**
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	**70,180**	**63,864**	
Scope 2	62,468	56,846	
Scope 3 (includes T&D emissions from consumption under operational control)	7,712	7,018	
Residual electricity consumption not under operational control	**0**	**0**	
Scope 3	0	0	.

Total renewables (grid and non-grid)	**3.96%**
Mandatory	**3.96%**
Voluntary	**0.00%**
Behind the meter	**0.00%**
Residual scope 2 emissions (t CO_2-e)	**56.85**
Residual scope 3 emissions (t CO_2-e)	**7.02**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**10.17**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**1.26**
Total emissions liability (t CO_2-e)	**11.43**

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 (kg CO_2-e)**	**Scope 3 Emissions (kg CO_2-e)**	**(kWh)**	**Scope 3 Emissions (kg CO_2-e)**
VIC	73,073	73,073	57,727	5,115	0	0
Grid electricity (scope 2 and 3)	**73,073**	**73,073**	**57,727**	**5,115**	**0**	**0**
VIC	0	0	0	0		
Non-grid electricity (behind the meter)	**0**	**0**	**0**	**0**		
Total electricity (grid + non grid)	**73,073**					

Residual scope 2 emissions (t CO_2-e)	**57.73**
Residual scope 3 emissions (t CO_2-e)	**5.12**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**12.21**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**1.08**
Total emissions liability	**13.29**

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)
Not applicable	**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 electricity product used	Electricity claimed from Climate Active electricity products (kWh)	Emissions (kg CO_2-e)
AGL	**57,621**	**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
Not applicable	

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 an 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
Insurance	N	N	N	N	N	**Size:** The emissions source is likely to be immaterial. **Influence:** We do not have the potential to influence the emissions from this source **Risk:** The source does not create supply chain risks **Stakeholders:** Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our business. **Outsourcing:** Not applicable

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Climate Active