



PUBLIC DISCLOSURE STATEMENT

**JBA CONSULTING ENGINEERS PTY LTD
(TRADING AS JBA CONSULTING
ENGINEERS)**


**ORGANISATION CERTIFICATION
FY2022-23**

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 2022 – 30 June 2023 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>Quilon Bryar Director 20/12/2023</p>



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

Public Disclosure Statement documents are prepared by the submitting organisation. The material in the Public Disclosure Statement document represents the views of the organisation and do not necessarily reflect the views of the Commonwealth. The Commonwealth does not guarantee the accuracy of the contents of the Public Disclosure Statement document and disclaims liability for any loss arising from the use of the document for any purpose.

Version August 2023.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	88.04 t CO ₂ -e
OFFSETS USED	100% VCU's
RENEWABLE ELECTRICITY	Not applicable
CARBON ACCOUNT	Prepared by: Heidi Fog, Carbon Neutral Pty Ltd

Contents

1. Certification summary	3
2. Carbon neutral 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. CARBON NEUTRAL INFORMATION

Description of 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 2022 to 30 June 2023 (FY2022-23) and this is our second 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 (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). These gasses are expressed in carbon dioxide equivalents (CO₂-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

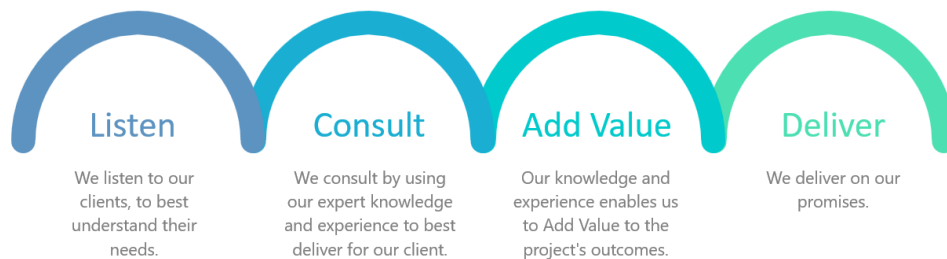
The JBA Family are passionate and committed to Our Vision of ***a built environment that creates a better everyday life*** and working to achieving this through Our Mission of ***delivering smarter engineering solutions***. This is our passion, our drive, our inspiration and our dedication to our clients, 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.



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 this in our Second Year of Certification by achieving a 3.04 t CO₂-e/FTE intensity, which is a 31% reduction.

Reporting year	Emissions (t CO ₂ -e)	FTE	Emissions intensity (t CO ₂ -e/FTE)
Base year FY2021-22	123.49	28	4.41
FY2022-23	88.04	29	3.04
Target (FY2029-30)			3.09

Actions commenced and to be fully implemented by 31 December 2024:

- Further enhance 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.

- Engage with the Base Building Management team to investigate base building efficiencies and potential upgrades to reduce emissions. If Base Building Electricity was purchased as either carbon neutral or 100% renewable this would have the ability to save an annual 26.10tCO₂-e based on our FY22 base year.

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 51tCO₂-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.

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:	2021-22	117.61	123.49
Year 2:	2022-23	83.85	88.04

Significant changes in emissions

Emission source name	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Detailed reason for change
Electricity	26.10	17.91	<p>Our electricity associated emissions comes from our share of the base building usage.</p> <p>The Base building Owners Corporation made use of the Victorian Government VEU Program and replaced all lighting throughout the common areas including carparks with low-energy smart sensor LED lighting.</p> <p>The building also made use of data from its Building Management System and fine tuned its Mechanical Cooling and Heating system to allow for greater Free-Cool (outside air cooling) days than requiring energy intensive plant equipment cooling requirements.</p>

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

Certified brand name	Product/Service/Building/Precinct used
AGL	53,611.855 kWh

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 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	0.00	0.00	0.25	0.25
Cleaning and chemicals	0.00	0.00	1.77	1.77
Climate Active carbon neutral products and services	0.00	0.00	0.00	0.00
Construction materials and services	0.00	0.00	0.65	0.65
Electricity	0.00	17.91	1.48	19.39
Food	0.00	0.00	0.00	0.00
ICT services and equipment	0.00	0.00	10.92	10.92
Office equipment and supplies	0.00	0.00	5.09	5.09
Postage, courier and freight	0.00	0.00	0.00	0.00
Professional services	0.00	0.00	4.60	4.60
Refrigerants	0.00	0.00	0.00	0.00
Stationary energy (gaseous fuels)	8.85	0.00	0.69	9.53
Transport (air)	0.00	0.00	1.34	1.34
Transport (land and sea)	0.00	0.00	22.40	22.40
Waste	0.00	0.00	7.28	7.28
Water	0.00	0.00	0.16	0.16
Working from home	0.00	0.00	0.46	0.46
Total emissions	8.85	17.91	57.09	83.85

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	4.19
Total of all uplift factors	4.19
Total emissions footprint to offset <i>(total emissions from summary table + total of all uplift factors)</i>	88.04

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 88.04 t CO₂-e. The total number of eligible offsets used in this report is 89. Of the total eligible offsets used, 76 were previously banked and 217 were newly purchased and retired. 204 are remaining and have been banked for future use.

Co-benefits

Chakala Wind-based power generation project, Maharashtra, India

The project helps in generating employment opportunities during the construction and operation phases. The project activity will lead to development in infrastructure in the region such as development of roads and may promote business with improved power generation.

Project developers will use at a minimum 2% of the revenues accrued from the sale of carbon credits on an annual basis for community related activities. These include providing assistance for development of public amenities in the surrounding areas such as water distribution/sanitation facilities/building of schools and hospitals and free distribution of educational books and school uniforms, annual eye camps health checks for villagers.

The table below indicates how this project contributes to the United Nations' Sustainability Development Goals.

UN Sustainable Development Goals			
Goal 3: Good Health and Well-being			
Goal 6: Clean Water and Sanitation			
Goal 8: Decent Work and Economic Growth			
Goal 13: Climate action			

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 CO₂-e annually. The project contributes to the United Nations' goals 3, 8 and 13 as listed above.

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 (%)
Chakala Wind Power Project in Maharashtra, India	VCU	Verra Registry	17 Oct 2022	6870-353270507-353270706-VCU-034-APX-IN-1-1197-01012018-31052018-0	2018		200	124	0	76	85%
Solar Energy Project(s) by SB Energy Private Limited Project, India	VCU	Verra	20 December 2023	8423-15977247-15977463-VCS-VCU-997-VER-IN-1-1805-01012018-31122018-0	2018	-	217	0	204	13	15%
Total eligible offsets retired and used for this report										89	
Total eligible offsets retired this report and banked for use in future reports									204		
Type of offset units		Eligible quantity (used for this reporting period)					Percentage of total				
Verified Carbon Units (VCUs)		89					100%				

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)	3,961	0	5%
Residual Electricity	70,722	67,539	0%
Total renewable electricity (grid + non grid)	3,961	0	5%
Total grid electricity	74,683	67,539	5%
Total electricity (grid + non grid)	74,683	67,539	5%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	70,722	67,539	
Scope 2	62,456	59,645	
Scope 3 (includes T&D emissions from consumption under operational control)	8,266	7,894	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	5.30%
Mandatory	5.30%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO₂-e)	59.65
Residual scope 3 emissions (t CO₂-e)	7.89
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	14.43
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	1.91
Total emissions liability (t CO₂-e)	16.34

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)
VIC	74,683	74,683	63,481	5,228	0	0
Grid electricity (scope 2 and 3)	74,683	74,683	63,481	5,228	0	0
VIC	0	0	0	0		
Non-grid electricity (behind the meter)	0	0	0	0		
Total electricity (grid + non grid)	74,683					

Residual scope 2 emissions (t CO ₂ -e)	63.48
Residual scope 3 emissions (t CO ₂ -e)	5.23
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	17.91
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	1.48
Total emissions liability	19.39

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
<i>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.</i>		

Climate Active carbon neutral electricity products

Climate Active carbon neutral product used	Electricity claimed from Climate Active certified products (kWh)	Emissions (kg CO ₂ -e)
AGL	53,611.855	0
<i>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.</i>		

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





An Australian Government Initiative

