



PUBLIC DISCLOSURE STATEMENT

JBA CONSULTING ENGINEERS PTY LTD

ORGANISATION CERTIFICATION


FY2021-22

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	JBA Consulting Engineers Pty Ltd
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>Quilon Bryar Director 19/10/2022</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	123.49 tCO ₂ -e
OFFSETS BOUGHT	100% VCU's
RENEWABLE ELECTRICITY	Not applicable
THIRD PARTY VALIDATION	Type 1 12 October 2022 Ben Tardrew-Munday Tardrew Partners

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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). The operational boundary of the carbon account has been defined based on the operational control approach.

This Public Disclosure Statement represents the reporting period 1 July 2021 to 30 June 2022 (FY2021-22).

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.

“The JBA family believe that we must act to protect and restore our environment for ours and future generations.”

Climate Active demonstrates our commitment to taking action against Climate Change and ensuring our operations are sustainable now and into the future.”

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

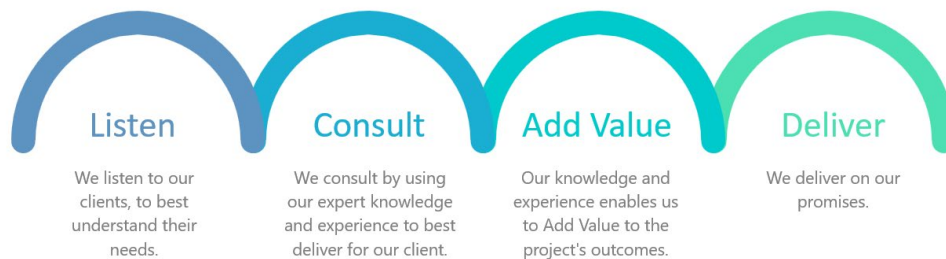
The JBA Family are passionate and committed to Our Vision of **a built environment that creates a better everyday life** and working to achieving this through Our Mission of **delivering smarter engineering solutions**. This is our passion, our drive, our inspiration and our dedication to our clients, 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. 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 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 Cleaning Electricity Food Stationary energy 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 Business services Accounting services Rates (ASIC) Advertising services Legal services Parking & tolls Air travel Business related travel Taxi Staff commute Staff working from home Waste Water 	<p><u>Non-quantified</u></p> <p>N/A</p>	<p><u>Excluded</u></p> <ul style="list-style-type: none"> Other rates and taxes Insurance

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

JBA is 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 reduce emissions and be advocates for the protection, preservation and restoration of our environment.

Actions already implemented and continuing:

- 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.

Actions commenced and to be fully implemented by 31 December 2022:

- Enhance our Sustainability Policy to better articulate our stance on Climate Action and Sustainability Action, and incorporate Climate Active certification.
- Develop a Climate Conscious Procurement Policy
- Continue to avoid and minimise the use of air travel. All air travel under 400km will be completely avoided as a company policy. Where possible, flights are purchased as carbon neutral at the time of booking. This would have the ability to save an annual 0.77tCO₂-e based on our FY22 base year.

Long Term Action Targets and Commitments for July 2026:

- Uphold our status as a Climate Active carbon neutral certified Organisation.
- Reduce our FY22 emissions footprint by at least 30% per team member on a full-time equivalent basis. We will calculate this on an intensity basis per Full Time Equivalent Team member year on year and track our progress.
- We will move to 100% of our office paper, where possible, to Climate Active carbon neutral certified Australian office paper made from 100% recycled paper pulp. This would have the ability to save an annual 0.87tCO₂-e based on our FY22 base year.
- 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.

- 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.
- 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 28.97tCO₂-e based on our FY22 base year.

5. EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

Certified brand name	Product or Service used
AGL	Tenancy electricity = 50,496.643 kWh

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 total emissions (tCO ₂ -e)
Accommodation and facilities	0.22
Air transport (km)	0.77
Cleaning and chemicals	1.05
Construction materials and services	4.16
Electricity	28.97
Food	0.00
ICT services and equipment	21.06
Land and sea transport (km)	21.77
Machinery and vehicles	0.45
Office equipment & supplies	9.71
Professional services	11.77
Stationary energy	10.02
Waste	3.65
Water	0.16
Working from home	3.85
Total	117.61

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
Additional 5% of the total carbon footprint added in line with the Climate Active Standard for a small organisation's boundary	5.88
Total of all uplift factors	5.88
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	123.49

6. CARBON OFFSETS

Offsets retirement approach

In arrears

1.	Total emissions footprint to offset for this report	124
2.	Total eligible offsets purchased and retired for this report	200
3.	Total eligible offsets banked to use toward next year's report	76

Co-benefits

Chakala Wind-based power generation project, Maharashtra, India

Social well-being:

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.

Economic well-being:

The project is a clean technology investment in the region, which would not have taken place in the absence of the VCS benefits. The project activity will also help to reduce the demand supply gap in the state. The project will generate power using zero emissions wind-based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

Environmental well-being:

Wind being a renewable source of energy, reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the Project activity avoids a significant amount of GHG emissions.

Technological well-being:

The successful operation of the project activity should lead to promotion of wind-based power generation and would encourage other entrepreneurs to participate in similar projects.

The table 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			

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 (%)
Chakala Wind Power Project in Maharashtra, India	VCUs	Verra Registry	17 Oct 2022	6870-353270507-353270706-VCU-034-APX-IN-1-1197-01012018-31052018-0	2018		200	0	76	124	100%
Total offsets retired this report and used in this report										124	
Total offsets retired this report and banked for future reports									76		
Type of offset units		Quantity (used for this reporting period claim)				Percentage of total					
Verified Carbon Units (VCUs)		124				100%					

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
Total LGCs surrendered this report and used in this report							0		

APPENDIX A: ADDITIONAL INFORMATION

Not applicable

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 (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)	5,331	0	19%
Residual Electricity	23,347	23,229	0%
Total grid electricity	28,678	23,229	19%
Total Electricity Consumed (grid + non grid)	28,678	23,229	19%
Electricity renewables	5,331	0	
Residual Electricity	23,347	23,229	
Exported on-site generated electricity	0	0	
Emissions (kgCO ₂ e)		23,229	
Total renewables (grid and non-grid)	18.59%		
Mandatory	18.59%		
Voluntary	0.00%		
Behind the meter	0.00%		
Residual Electricity Emission Footprint (TCO₂e)	23		

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)
Vic	28,678	26,097	2,868
Grid electricity (scope 2 and 3)	28,678	26,097	2,868
Vic	0	0	0
Non-grid electricity (Behind the meter)	0	0	0
Total Electricity Consumed	28,678	26,097	2,868

Emission Footprint (TCO₂e)	29
<i>Scope 2 Emissions (TCO₂e)</i>	26
<i>Scope 3 Emissions (TCO₂e)</i>	3

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO ₂ e)
AGL	50,497	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
Not applicable				

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.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
Other rates and taxes	No	No	No	No	No	No
Insurance	No	No	No	No	No	No



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