PUBLIC DISCLOSURE STATEMENT

THE TRUSTEE FOR PAC PROPERTY GROUP UNIT TRUST (TRADING AS BODRIGGY BREWING COMPANY)

ORGANISATION CERTIFICATION

FY2022-23

Australian Government

Climate Active
Public Disclosure Statement

An Australian Government Initiative

NAME OF CERTIFIED ENTITY	The Trustee for PAC Property Group Unit Trust (trading as Bodriggy Brewing Company)
REPORTING PERIOD	1 July 2022 – 30 June 2023 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.* *Tess Carter*
	Name of signatory: Tess Carter Position of signatory: Projects & Partnerships Manager Date: 20.11.2024

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

Version August 2023.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	930 tCO_2-e
CARBON OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	23.60%
CARBON ACCOUNT	Prepared by: Pangolin Associates Pty Ltd
TECHNICAL ASSESSMENT	24/10/2023 Pangolin Associates Next technical assessment due: FY2024-25

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2. CERTIFICATION INFORMATION

Description of organisation certification

This organisation certification is for the business operations of The Trustee for PAC Property Group Unit Trust, trading as Bodriggy Brewing Company, ABN 95 611 491 046.

This Public Disclosure Statement includes information for FY2022-23 reporting period.

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.

In the organisation, product emissions have been captured in Bodriggy's FY23 Product Certification, linked here.

Organisation description

Bodriggy Brewpub (ABN 95 611 491 046) at is a space culminating in a brewery, brewpub, restaurant, cocktail bar and bottle shop/front bar. Abbotsford, born and bred, we seek to engage through unique drinking experiences, creativity, culture and music.

At Bodriggy we live and breathe quality. From our dedicated brewers working around the clock to deliver the freshest and most innovative brews, to the talented artists we support and the integral values we hold.

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 assessment includes the following location:

- 245 Johnston Street, Abbotsford, VIC, 3067

3. 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 and facilities

Cleaning and chemicals

Climate Active carbon neutral products and services

Electricity

Food

ICT services and equipment

Machinery and vehicles

Office equipment & supplies

Postage, courier and freight

Products

Professional services

Refrigerants

Stationary energy (gaseous fuels)

Transport (land and sea)

Waste

Water

Working from home

Products, materials & equipment

Stationary fuels

Non-quantified

N/A

Outside emission boundary

Excluded

N/A

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Bodriggy commits to reduce total scope 1, 2 and 3 emissions from the business by 30% by FY2030 compared to a FY2022 baseline. This will be achieved through the following measures:

We aim to address scope 1 emissions by:

- Natural gas is currently a key requirement for our brewing process. Bodriggy will monitor developments in this space and research more efficient uses of natural gas and/or transition to low and no natural gas machinery.
- Investigate insulating the for piping for steam lines and hot liquor lines to improve gas use.

We aim to address scope 2 emissions by:

- We have investigated GreenPower electricity options, and it is our plan to incorporate this and by 2030 we would aim to be 100% green power.
- Implementing energy efficiency measures on site to reduce electricity consumption below current consumption level of 390kWh/ litre of beer.
- Educating employees and key stakeholders on sustainable behaviours to increase buy-in and reduce emissions.

We aim to address scope 3 emissions by:

- Partnerships with Reground to reduce soft plastics waste.
- Increasing water efficiencies throughout the brewing process to below 7.1 litres of water per litre of beer.
- Researching increased share of vegan and vegetarian meals on the menu at the BrewPub.
- Researching composting of food waste from the BrewPub.
- Closing the loop with grain supplier resulting in less packaging waste.
- Analysis of key suppliers and moving to suppliers who are carbon neutral / have reduction strategies where commercially viable.
- Analysis of our Brewery location and more efficient/sustainable use of space (e.g. kitchen gardens, water tanks, better storage to reduce freight etc).

Investigate installing grain silos by 2027, thereby reducing grain deliveries.

Emissions reduction actions

- We have utilised all available space on the roof at Bodriggy for solar panels; this produces approximately 20.90 MWh per calendar year, weather-dependent.
- We have installed a cardboard compactor all cardboard is collected from the venue to be recycled and reused.
- We are looking into options for installing a Compressor/Refrigeration Software that will allow us to reduce our energy output per brew.
- We have spoken to the team at ewater about installing an ewater system. This would decrease our chemical use by approximately 70%.
- Packaging and warehousing logistics have been tightened up to ensure no double ups of stock being delivered back and forth from the brewery to our warehousing site.

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	1,004.04	N/A
Year 2:	2022-23	929.80	N/A

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**
Meat Products	103.57	120.10	Changes to patronage due to covid restrictions easing
Electricity (market-based method, scope 2)	255.77	227.45	The Scope 2 and 3 emissions were bundled in the FY22 assessment.

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

Certified brand name	Product/Service/Building/Precinct used
Pangolin Associates	Consulting Services

Emissions summary

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

Emission category	Scope 1 emissions (tCO_2-e)	Scope 2 emissions (tCO_2-e)	Scope 3 emissions (tCO_2-e)	Total emissions (t CO_2-e)
Accommodation and facilities	0.00	0.00	0.37	0.37
Cleaning and chemicals	0.00	0.00	13.62	13.62
Climate Active carbon neutral products and services	0.00	0.00	0.00	0.00
Construction materials and services	0.00	0.00	2.28	2.28
Electricity	0.00	227.45	30.10	257.55
Food	0.00	0.00	296.08	296.08
ICT services and equipment	0.00	0.00	5.40	5.40
Machinery and vehicles	0.00	0.00	3.47	3.47
Office equipment and supplies	0.00	0.00	3.00	3.00
Postage, courier and freight	0.00	0.00	2.28	2.28
Products	0.00	0.00	19.66	19.66
Professional Services	0.00	0.00	85.22	85.22
Refrigerants	62.72	0.00	0.00	62.72
Stationary energy (gaseous fuels)	105.90	0.00	8.22	114.12
Stationary energy (liquid fuels)	0.00	0.00	0.00	0.00
Stationary energy (solid fuels)	0.00	0.00	5.74	5.74
Transport (air)	0.00	0.00	5.33	5.33
Transport (land and sea)	5.89	0.00	8.04	13.93
Waste	0.00	0.00	17.54	17.54
Water	0.00	0.00	16.06	16.06
Working from home	0.00	0.00	5.42	5.42
Total emissions (tCO_2-e)	**174.51**	**227.45**	**527.84**	**929.80**

Uplift factors

N/A

Share emissions between certifications by the same responsible entity

Certified brand name	Total Emissions
Organisation Emissions	929.80 tCO_2-e
Product Emissions	1,652.30 tCO_2-e
Total emissions offset by organisation and product	**2,582.10 tCO_2-e**

The product emissions have been captured in Bodriggy's FY23 Product Certification, linked here.

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Carbon Units (VCUs)	930	100%

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 (%)
Parbati Hydroelectric Project Stage III Project	VCU	Verra	5th September 2024	9572-110004070-110006652-VCS-VCU-1491-VER-IN-1-1425-29122014-29032015-0	2015	0	2,583*	0	0	930	100%
									Total eligible offsets retired and used for this report	930	
									Total eligible offsets retired this report and banked for use in future reports	0	

*Of the 2,583 total offsets retired, 930 have been used for the FY2023 organisational carbon neutral certification, with the remaining 1653 used in the product carbon neutral certification.

Co-benefits

NHPC Limited's Parbati Hydroelectric Project, Stage III is Greenfield Hydro Power Project located on river Sainj and Jiwa nallah a tributary of Beas River near village Bihali, Kullu district of Himachal Pradesh state of India. It is a run-of-the-river scheme whose design discharge includes the diversion of the tail race releases of Parbati Stage-II Power house as well as inflows from river Sainj and Jiwa nallah. The purpose of the project activity is to generate electrical power using hydel energy, through the operation of run of the river hydro turbines. The hydel energy generated from the hydel power plant is evacuated to the State Grid System which is part of NEWNE Grid. Generating power through hydel plant is a clean technology as no Carbon intensive fossil fuel is burnt during the process. A hydel turbine produces power by harnessing the available potential energy. Thus, there are no GHG emissions associated with the functioning of the hydro turbines. This in result replaces anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 1,912,324 tCO2e per year, thereon displacing 1,975,950 MWh/year amount of electricity from the gird.

Socio-economic well-being:

- Project activity has generated direct and indirect employment for skilled and unskilled manpower during construction phase as well as during operational stage and thus helped in controlling migration from the region and alleviation of poverty.
- The project activity's contribution of power supply towards the NEWNE grid is helping in the upliftment of the social life of the people by ensuring a sustainable and reliable source of power for the region.
- The Project activity has improved the infrastructural facilities like water availability, road, and medical facilities etc in the region.

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

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 **market-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	20,888	0	6%
Total non-grid electricity	**20,888**	**0**	**6%**
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)	62,441	0	18%
Residual Electricity	269,691	257,555	0%
Total renewable electricity (grid + non grid)	**83,329**	**0**	**24%**
Total grid electricity	**332,132**	**257,555**	**18%**
Total electricity (grid + non grid)	**353,020**	**257,555**	**24%**
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	**269,691**	**257,555**	
Scope 2	238,169	227,451	
Scope 3 (includes T&D emissions from consumption under operational control)	31,522	30,104	
Residual electricity consumption not under operational control	**0**	**0**	
Scope 3	0	0	

Total renewables (grid and non-grid)	**23.60%**
Mandatory	**17.69%**
Voluntary	**0.00%**
Behind the meter	**5.92%**
Residual scope 2 emissions (t CO_2-e)	**227.45**
Residual scope 3 emissions (t CO_2-e)	**30.10**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**227.45**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**30.10**
Total emissions liability (t CO_2-e)	**257.55**

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	332,132	332,132	282,312	23,249	0	0
Grid electricity (scope 2 and 3)	**332,132**	**332,132**	**282,312**	**23,249**	**0**	**0**
VIC	20,888	20,888	0	0		
Non-grid electricity (behind the meter)	**20,888**	**20,888**	**0**	**0**		
Total electricity (grid + non grid)	**353,020**					

Residual scope 2 emissions (t CO_2-e)	**282.31**
Residual scope 3 emissions (t CO_2-e)	**23.25**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**282.31**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**23.25**
Total emissions liability	**305.56**

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
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.

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to this 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
N/A						

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