PUBLIC DISCLOSURE STATEMENT

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

PRODUCT CERTIFICATION

FY2021–22

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	Financial year 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.*
	Name of signatory- Peter Walsh Position of signatory- Managing Director Date- 13/3/2024

Australian Government
Department of Industry, Science, Energy and Resources

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1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	626 tCO2-e
THE OFFSETS BOUGHT	100% VCUs
RENEWABLE ELECTRICITY	25.21%
TECHNICAL ASSESSMENT	24/10/2023 Emma Baird Pangolin Associates Next technical assessment due: 30/06/2025
THIRD PARTY VALIDATION	Type 3 Date 26/09/2023 Tim Grant Life Cycles

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2. CARBON NEUTRAL INFORMATION

Description of certification

"We live and breathe quality, and sustainability is integral to our values."

This inventory has been prepared for the financial year from 1 July 2021 to 30 June 2022 and covers the business operations and products produced by Australian business operations of The Trustee for PAC Property Group Unit Trusttrading as Bodriggy Brewing Company, 95 611 491 046.

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.

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.

The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF6) and nitrogen trifluoride (NF3). These have been expressed as carbon dioxide equivalents (CO2-e) using relative global warming potentials (GWPs).

Product description

The functional unit for this product is litres of beer produced over the reporting period with emissions expressed in terms of tCO2-e per litre of beer. This is a full coverage certification and is measured using cradle to gate approach as per the brewery calculator. The customers of the product are retailers.

Bodriggy Brewpub (ABN 95 611 491 046) at 245 Johnston St, Abbotsford 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.

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 'attributable processes' that become the product, make the product and carry the product through its life cycle. These have been quantified in the carbon inventory.

Non-quantified emissions have been assessed as attributable 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

Non-attributable emissions have been assessed as not attributable to a product or service. They can be **optionally included** in the emissions boundary and therefore have been offset, or they can be listed as outside of the emissions boundary (and are therefore not part of the carbon neutral claim). Further detail is available at Appendix D.

Inside emissions boundary

Quantified

Production of raw materials

Production of packaging

Freight of raw materials & packaging

Business Operations

Transport to customer

End of life

Non-quantified

N/A

Optionally included

N/A

Outside emission boundary

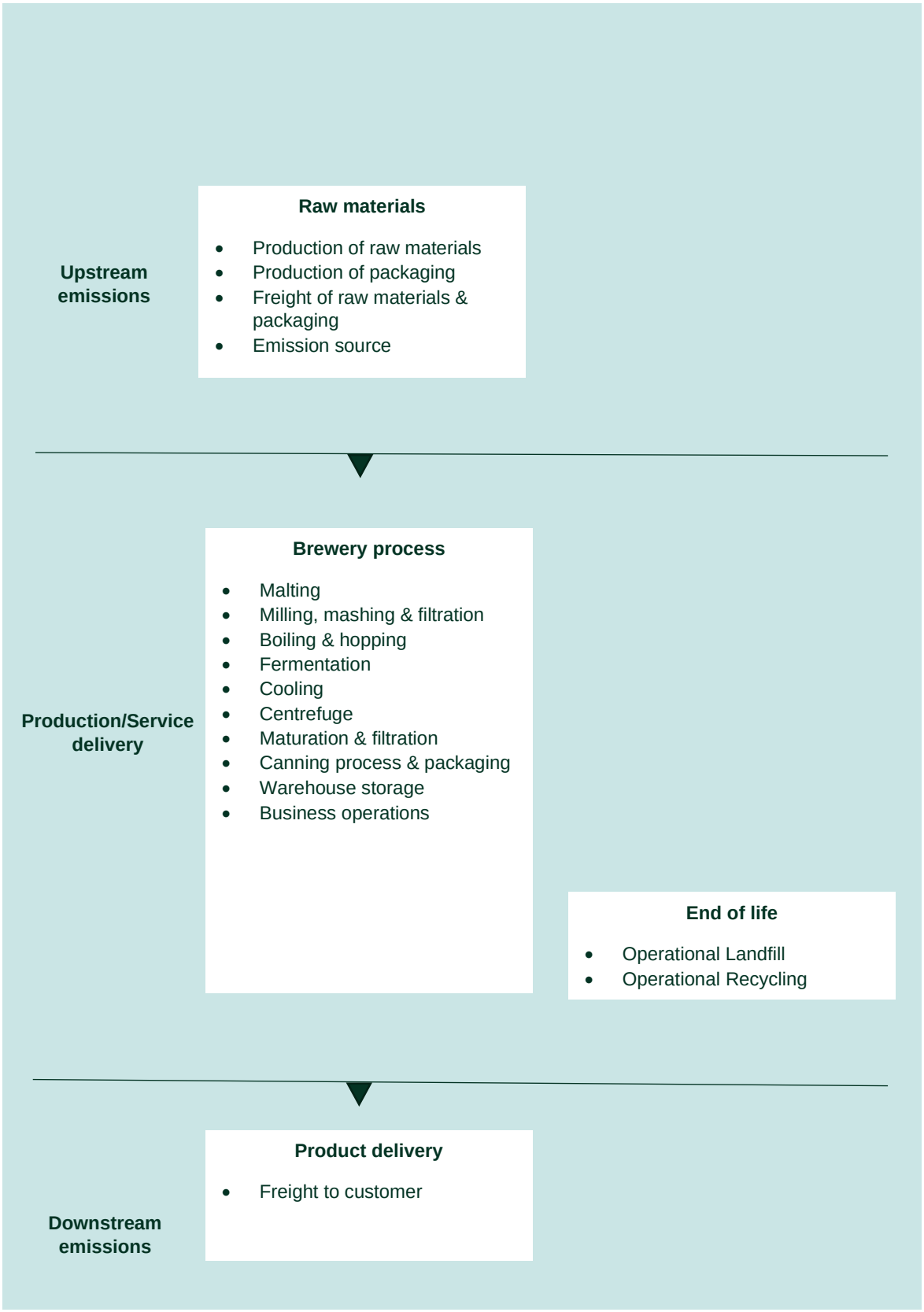
Non-attributable

Customer refrigeration

Packaging end-of-life

Product/service process diagram

Cradle-to-gate



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

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:

- Solar installation on the roof by 2023 and investigate GreenPower electricity options long-term for 2024.
- 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:

- Installation of a cardboard compactor for increased cardboard recycling by 2023.
- 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.

5.EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

This assessment and Climate Active submission was prepared with the assistance of Pangolin Associates and these services are also carbon neutral.

Product/Service emissions summary

Stage	Sub-stage	tCO2-e
Upstream emissions	Production of raw materials	185.65
	Production of packaging	397.95
	Freight of raw materials & packaging	11.26
Brewery process	Business operations*	801.01*
Product delivery	Transport to customer	30.63
Downstream emissions	End of life	203.03*

*Offset in the organisation PDS.

Emissions intensity per functional unit	0.001
Number of functional units to be offset	879,188
Total emissions to be offset for Product	1629.5

Shared emissions between certifications by the same responsible entity

	Emissions (tCO_2-e)
Organisation emissions	**1004.04 tCO_2-e**
Product Emissions	**625.48 tCO_2-e**
Total emissions offset by Organisation and product	**1629.52 tCO_2-e**

6. CARBON OFFSETS

Offsets retirement approach

In arrears		
1.	Total emissions footprint to offset for this report	626
2.	Total eligible offsets purchased and retired for this report	626
3.	Total eligible offsets banked to use toward next year's report	0

Co-benefits

The Baspa project is a run-of-the-river hydro-electric power plant with an installed capacity of 300 MW. The diversion barrage of the project is located across river Baspa, at Kuppa in Himachal Pradesh. The power house is located at Karcham village in Kinnaur District.

The project addresses the following Sustainable Development Goals: 7. Affordable and clean energy, 9. Industry, innovation & infrastructure and 12. Responsible consumption and production.

Eligible offsets retirement summary

There is significant overlap between organisation and product emissions. See page 10.

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 (%)**
300MW Hydropower project by JHPL	VCUs	Verra	18 Oct 2023	13503-506645715-506647344-VCS-VCU-279-VER-IN-1-92-01012019-31122019-0	2019	0	1,630	1004	0	626	100%
									Total offsets retired this report and used in this report	626	
									Total offsets retired this report and banked for future reports	0	

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Verified Carbon Units (VCUs)	626	100%

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 market-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	27,945	0	8%
Total non-grid electricity	**27,945**	**0**	**8%**
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)	58,701	0	17%
Residual Electricity	257,066	255,772	0%
Total grid electricity	**315,768**	**255,772**	**17%**
Total Electricity Consumed (grid + non grid)	**343,713**	**255,772**	**25%**
Electricity renewables	86,646	0	
Residual Electricity	257,066	255,772	
Exported on-site generated electricity	**0**	**0**	
Emissions (kgCO2e)		255,772	

Total renewables (grid and non-grid)	**25.21%**
Mandatory	**17.08%**
Voluntary	**0.00%**
Behind the meter	**8.13%**
Residual Electricity Emission Footprint (TCO2e)	**256**

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	315,768	287,349	31,577
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Grid electricity (scope 2 and 3)	**315,768**	**287,349**	**31,577**
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	27,945	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	**27,945**	**0**	**0**
Total Electricity Consumed	**343,713**	**287,349**	**31,577**

Emission Footprint (TCO2e)	**319**
Scope 2 Emissions (TCO2e)	287
Scope 3 Emissions (TCO2e)	32

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 emissions sources have been assessed as attributable, 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	Justification reason
N/A	

Excluded emission sources

Attributable emissions sources can be excluded from the carbon inventory, but still considered as part of the emissions boundary if they meet **all three of the below criteria**. An uplift factor may not necessarily be applied.

1. A data gap exists because primary or secondary data cannot be collected **(no actual data).**
2. Extrapolated and proxy data cannot be determined to fill the data gap (**no projected data**).
3. An estimation determines the emissions from the process to be **immaterial**).

	No actual data	No projected data	Immaterial
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 EMISSION BOUNDARY

Non-attributable emissions have been assessed as not attributable to a product or service (do not carry, make or become the product/service) and are therefore not part of the carbon neutral claim. To be deemed attributable, an emission must meet two of the five relevance criteria. Emissions which only meet one condition of the relevance test can be assessed as non-attributable and therefore are outside the carbon neutral claim. Non-attributable emissions are detailed below.

1. **Size** The emissions from a particular source are likely to be large relative to other attributable emissions.

2. **Influence** The responsible entity could influence emissions reduction from a particular source.

3. **Risk** The emissions from a particular source contribute to the responsible entity's greenhouse gas risk exposure.

4. **Stakeholders** The emissions from a particular source are deemed relevant by key stakeholders.

5. **Outsourcing** The emissions are from outsourced activities that were previously undertaken by the responsible entity or from outsourced activities that are typically undertaken within the boundary for comparable products or services.

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Non-attributable emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Customer refrigeration	N	N	N	N	N	**Size:** The size of emissions associated with customer refrigeration attributable to Bodriggy products is expected to be minimal and the electricity consumed per litre of beer is expected to be negligible. **Influence:** We do not have the potential to influence the emissions from this source. **Risk:** There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest. **Stakeholders:** Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our business**.** **Outsourcing:** We have not previously undertaken this activity within our emissions boundary and comparable organisations do not typically undertake this activity within their boundary.
Packaging End-of-Life	N	N	N	N	N	**Size:** The emissions source are likely to be small with the high recyclability of the packaging materials. **Influence:** We do not have the potential to influence the emissions from this source. **Risk:** There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest. **Stakeholders:** Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our business**.** **Outsourcing:** We have not previously undertaken this activity within our emissions boundary and comparable organisations do not typically undertake this activity within their boundary.

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