



# **PUBLIC DISCLOSURE STATEMENT**

**CAPITAL BREWING CO PTY LTD**

**PRODUCT CERTIFICATION  
CY2022**

Australian Government  
**Climate Active**  
**Public Disclosure Statement**



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Capital Brewing Co Pty Ltd
REPORTING PERIOD	Calendar year 1 July 2022– 31 December 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 style="font-size: 2em; color: #0070c0; text-align: center;"><b>UNSIGNED</b></p> <p>Name of signatory  Position of signatory  Date</p>



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

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Version March 2023.

# 1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	820.2 tCO <sub>2</sub> -e
THE OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	92.39%
CARBON ACCOUNT	Prepared by: Pangolin Associates
TECHNICAL ASSESSMENT	Date: 9/02/2022 Name: Sarah Colquhoun Organisation: Pangolin Associates Next technical assessment due: CY2023

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## 2. CARBON NEUTRAL INFORMATION

### Description of certification

This inventory has been prepared for the calendar year 1 July 2022– 31 December 2022 and covers all beer produced by Capital Brewing Co, ABN: 71 610 788 317.

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 includes the following locations and facilities:

- 1 Dairy Road, Fyshwick ACT 2609
- 822 George Street, Chippendale NSW 2008

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 (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF<sub>6</sub>) and nitrogen trifluoride (NF<sub>3</sub>). These have been expressed as carbon dioxide equivalents (CO<sub>2</sub>-e) using relative global warming potentials (GWPs).

### Product description

The product under this certification is full service and measured using a cradle to gate approach. The functional unit for the carbon neutral certification is litres of beer produced.

## 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' of a product or service. These attributable processes are services, materials and energy flows that become the product or service, make the product or service and carry the product or service through its life cycle. These attributable emissions 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**

Accommodation and facilities  
Cleaning and Chemicals  
Electricity  
Food  
ICT services and equipment  
Machinery and vehicles  
Office equipment & supplies  
Postage, courier and freight  
Products  
Professional Services  
Refrigerants  
Stationary Energy (gaseous fuels)  
Stationary Energy (liquid fuels)  
Transport (Air)  
Transport (Land and Sea)  
Waste  
Water  
Working from home

**Non-quantified**

N/A

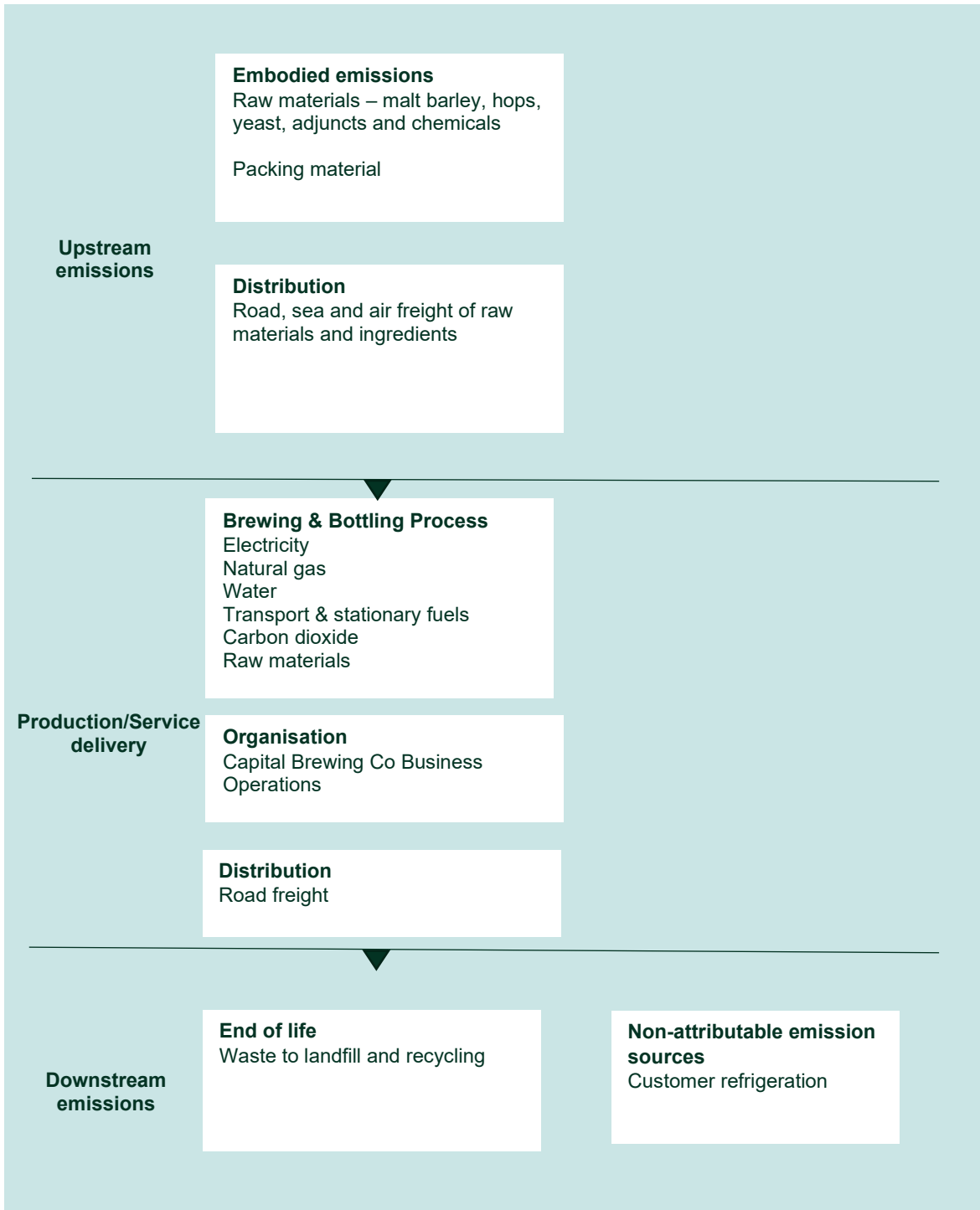
**Outside emission boundary**

**Non-attributable**

Customer refrigeration

## Product/service process diagram

This is a cradle-to-gate boundary.



## 4.EMISSIONS REDUCTIONS

### Emissions reduction strategy

Capital Brewing Co will draw on our first certified emissions summary to develop a detailed reduction strategy in the next six months to further reduce our footprint.

#### Short term (1-2 years)

- Reduce level of imported malt by switching to locally grown grain through the use of regenerative farming practices.
- Find alternatives to international hops and Increase use of Australian grown hops as a percentage of total hop consumption.
- Reduce CO2 use in production through CO2 recycling strategies
- Changing plastic can holders to recycled cardboard cluster packs
- Promote and encourage sustainable commute methods for employees
- Join with other breweries throughout Australia to collectively lobby brewery supply chains for lower carbon options
  
- Installation of yeast harvesting and dosing equipment to reduce the use of imported yeast

#### Medium term( 3-5 years)

- Reduce Natural Gas usage by moving to electric heaters in outdoor F&B area
- Increase [Trees for Tomorrow Program](#) | from 5000 trees planted to 10000
- Reduce water consumption to <3.9L/L
- Plant and Equipment upgrades to reduce water and chemical use including, but not limited to an automated Clean In Place system

#### Long term(10+ years)

- Investigate transitioning gas fired steam boilers to electricity or 'green gas' eg hydrogen.
- Transition gas powered forklifts to an electric fleet
- Transition Capital Brewing Co vehicle fleet to all-electric
- Investigate emission reduction scheme opportunities from our raw material inputs (Hops and Barley) in order to inset carbon credits into our own supply chain

From 2022 (normalized post COVID-19), we expect these strategies will reduce emissions across scope 1, 2 and 3 by 10% in 2025 and 20% by 2035.

## 5. EMISSIONS SUMMARY

### Emissions over time

Note that the reporting approach has changed from FY to CY, and this report is reflective of a 6-month period.

Emissions since base year		Total tCO <sub>2</sub> -e	Emissions intensity of the functional unit
Base year/Year 1:	2020–21	1,119.1	0.0007
Year 2:	2021–22	1627.9	0.0008
Year 3/Base year for Calendar Period	CY2022	820.2	0.00085

### Significant changes in emissions

NA as the reporting approach has changed from FY to CY.

### Use of Climate Active carbon neutral products and services

Certified brand name	Product or Service used
Opal Australian Paper (Reflex)	Paper

## Emissions summary

Stage / Attributable Process / Source	tCO <sub>2</sub> -e
Production of raw materials	224.4
Production of packaging	220.3
Freight of raw materials & packaging	9.0
Business Operations	343.7*
Transport to customer	4.7
End of life	18.0

\*Waste emissions have been documented separately from business operations and are recorded under the waste (end of life) stage.

Emissions intensity per functional unit	0.00085 (Litre of beer produced/tCO <sub>2</sub> -e)
Number of functional units to be offset (certified)	962,179 Litres of beer produced
Total emissions to be offset (certified)	820.2 tCO <sub>2</sub> -e

## 6. CARBON OFFSETS

### Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 821 t CO<sub>2</sub>-e. The total number of eligible offsets used in this report is 821. Of the total eligible offsets used, 0 were previously banked and 821 were newly purchased and retired. 0 are remaining and have been banked for future use.

### Co-benefits

#### Bundled Solar Power Project by Solar Arise Projects Pty Ltd

The project activity involves the installation of Solar PV project. The total installed capacity of the project is 120 MW of Solar PV plant located at different states in India. The project is promoted by SolarArise India Projects Pvt. Ltd.

Co-benefits:

**Social well-being:** The project would help in generating employment opportunities during the construction and operation phases. The project activity will lead to development in infrastructure in the region like development of roads and also may promote business with improved power generation.

**Economic well-being:** The project is a clean technology investment in the region, which would not have been 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 activity will generate power using zero emissions Solar PV based power generation which helps to reduce GHG emissions and specific pollutants like SO<sub>x</sub>, NO<sub>x</sub>, and SPM associated with the conventional thermal power generation facilities.

**Technological well-being:** The successful operation of project activity would lead to promotion of Solar based power generation and would encourage other entrepreneurs to participate in similar projects.

## **Eligible offsets retirement summary**

The details of offsets relating to this certification are the same as those in the Capital Brewing Co's Organisation PDS.

## 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.

<b>1. Large-scale Generation certificates (LGCs)*</b>	N/A
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\* 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	Project location	Eligible unit type	Registry	Surrender date	Accreditation code	Certificate serial number	Generation year	Fuel source	Quantity (MWh)
<b>Total LGCs surrendered this report and used in this report</b>									N/A

# APPENDIX A: ADDITIONAL INFORMATION

N/A

Additional offsets retired for purposes other than Climate Active Carbon Neutral Certification							
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Eligible Quantity (tCO <sub>2</sub> -e)	Purpose of retirement

## APPENDIX B: ELECTRICITY SUMMARY

The details of Climate Active electricity calculator to this certification are the same as those in the Capital Brewing Co's Organisation PDS.

# 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.

## Non-attributable emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Customer refrigeration	N	N	N	N	N	



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