



# **PUBLIC DISCLOSURE STATEMENT**

**CAPITAL BREWING CO PTY LTD**

**ORGANISATION CERTIFICATION**

**FY2021–22**

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



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Capital Brewing Co Pty Ltd
REPORTING PERIOD	Financial year 1 July 2021– 30 June 2022
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><b>UNSIGNED</b></p> <p>Name of signatory Position of signatory Date</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	1627.9 tCO <sub>2</sub> -e
OFFSETS BOUGHT	100% VCUs
RENEWABLE ELECTRICITY	99.47%
TECHNICAL ASSESSMENT	Date: 9/02/2022 Name: Sarah Colquhoun Organisation: Pangolin Associates Next technical assessment due: Date FY2025

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## 2. CARBON NEUTRAL INFORMATION

### Description of certification

This inventory has been prepared for the financial year 1 July 2021–30 June 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.

*“Capital Brewing Co  
is proud to be  
Climate Active  
Carbon Neutral  
because there’s no  
beer on a dead  
planet!”*

## 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

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

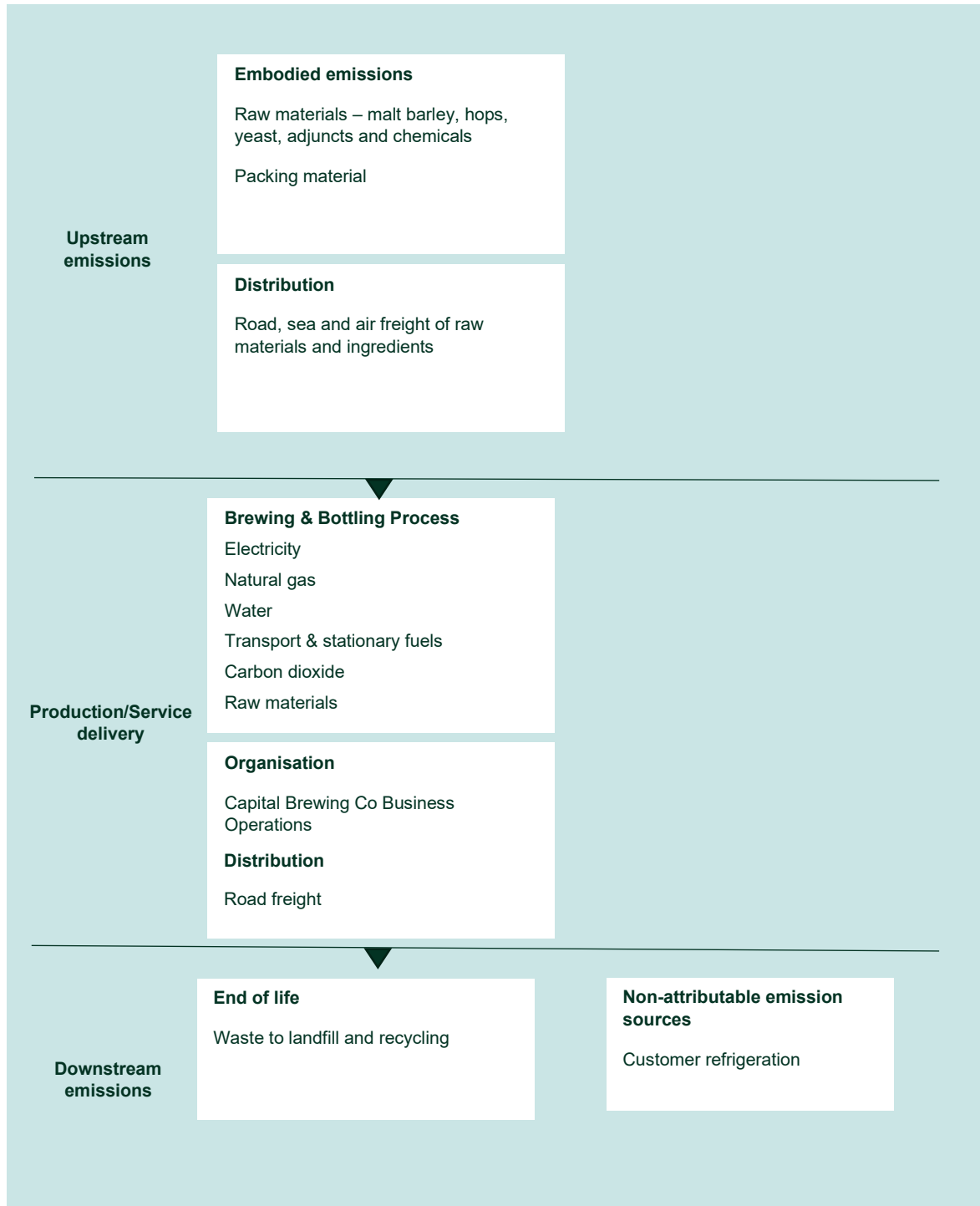
### Outside emission boundary

#### Non-attributable

Customer refrigeration

# Product/service process diagram

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

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 paks
- 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

Using this year's data as a base (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.

## Emissions reduction actions

Emission reduction strategies for action over the next year will include:

Capital Brewing Co has worked to reduce its own emissions by installing upgraded refrigeration equipment that uses a new refrigerant with a lower GWP. Our previous system used refrigerant R-410A with a GWP of 2088 and we will now be using R-513A with a GWP 573. Capital Brewing Co is also continuously working to promote and lobby businesses within the industry and our own supply chain to look at their own emissions and question what changes can be made.

[Carbon neutral Capital launches industry template – Brews News Australia](#)

## 5. EMISSIONS SUMMARY

### Emissions over time

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

### Significant changes in emissions

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

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

Capital Brewing Co use Opal Australian Paper (Reflex) carbon neutral paper.

## Product emissions summary

Stage	tCO <sub>2</sub> -e
Production of raw materials	448.9
Production of packaging	440.6
Freight of raw materials & packaging	36.2
Business Operations	628.6*
Transport to customer	37.7
End of life	36.0

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

<b>Emissions intensity per functional unit</b>	0.0008 (Litre of beer produced/tCO <sub>2</sub> -e)
<b>Number of functional units to be offset (certified)</b>	1,924,358 Litres of beer produced
<b>Total emissions to be offset (certified)</b>	1,627.9 tCO <sub>2</sub> -e

## 6. CARBON OFFSETS

### Offsets retirement approach

In arrears	
1. Total number of eligible offsets banked from last year's report	0
2. Total emissions footprint to offset for this report	1,628
3. Total eligible offsets required for this report	1,628
4. Total eligible offsets purchased and retired for this report	1,628
5. Total eligible offsets banked to use toward next year's report	0

### 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>	
<b>2. Other RECs</b>	

\* 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
N/A									
<i>Total LGCs surrendered this report and used in this report</i>									

## APPENDIX A: ADDITIONAL INFORMATION

N/A

## 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 sources emissions 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	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
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			

## 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.

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>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.</i>
Customer refrigeration	No	No	No	No	No



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