



PUBLIC DISCLOSURE STATEMENT

XXXX ZERO

**PRODUCT CERTIFICATION
CY2022 - PROJECTED**

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY	Lion Pty Ltd
REPORTING PERIOD	1 January 2022 – 31 December 2022 (Projected)
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><i>Justin Merrell</i></p> <hr/> <p>Justin Merrell</p> <p>Sustainability Director</p> <p>13 April 2022 11:00 AM AEST</p>



Australian Government
Department of Industry, Science,
Energy and Resources

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Version September 2021. To be used for FY20/21 reporting onwards.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	1,217 tCO2-e
THE OFFSETS BOUGHT	100% ACCUs
RENEWABLE ELECTRICITY	85.86 %
TECHNICAL ASSESSMENT	4/02/2022 Paola Martinez Ndevr Environmental Next technical assessment due: CY2025
THIRD PARTY VALIDATION	Type 3 Date: 25/02/2022 Name: Edge Environment

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2. CARBON NEUTRAL INFORMATION

Description of certification

This certification covers all XXXX ZERO produced at our Toohey's Brewery Facility (Lidcome NSW), owned, and operated by Lion Pty Ltd. The cradle-to-gate inventory covers calendar year 2022 (projected) as base year and first year of certification. The projections for the inventory are based on FY2021 data.

The functional unit for this certification is 1 litre of alcohol-free beer produced.

Product description

The story of XXXX starts back in 1878 when brothers Nicholas and Edward Fitzgerald had one goal in life; to create the finest ales known to Australians, loved by generations across this sun-drenched land.

With over 144 years of history brewing thirst-quenchers, XXXX has now crafted XXXX ZERO with the next generation in mind. XXXX ZERO is proudly Australia's first certified carbon neutral zero alcohol beer product.

As a full flavoured, easy drinking, alcohol free lager, XXXX ZERO is made to represent the very best of the modern Aussie lifestyle.

XXXX ZERO - 0.0% alcohol, 100% carbon neutral.

"For 144 years, XXXX has been there when consumers are in need; and right now, our purpose as champions of the great Australian outdoors is as relevant as ever.

With our drinkers consistently claiming environmental concerns as the biggest crisis we face today, as a brand with such a long and proud history we want to help build awareness and drive change to ensure the next generation of consumers can enjoy the outdoors just as we have."

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.

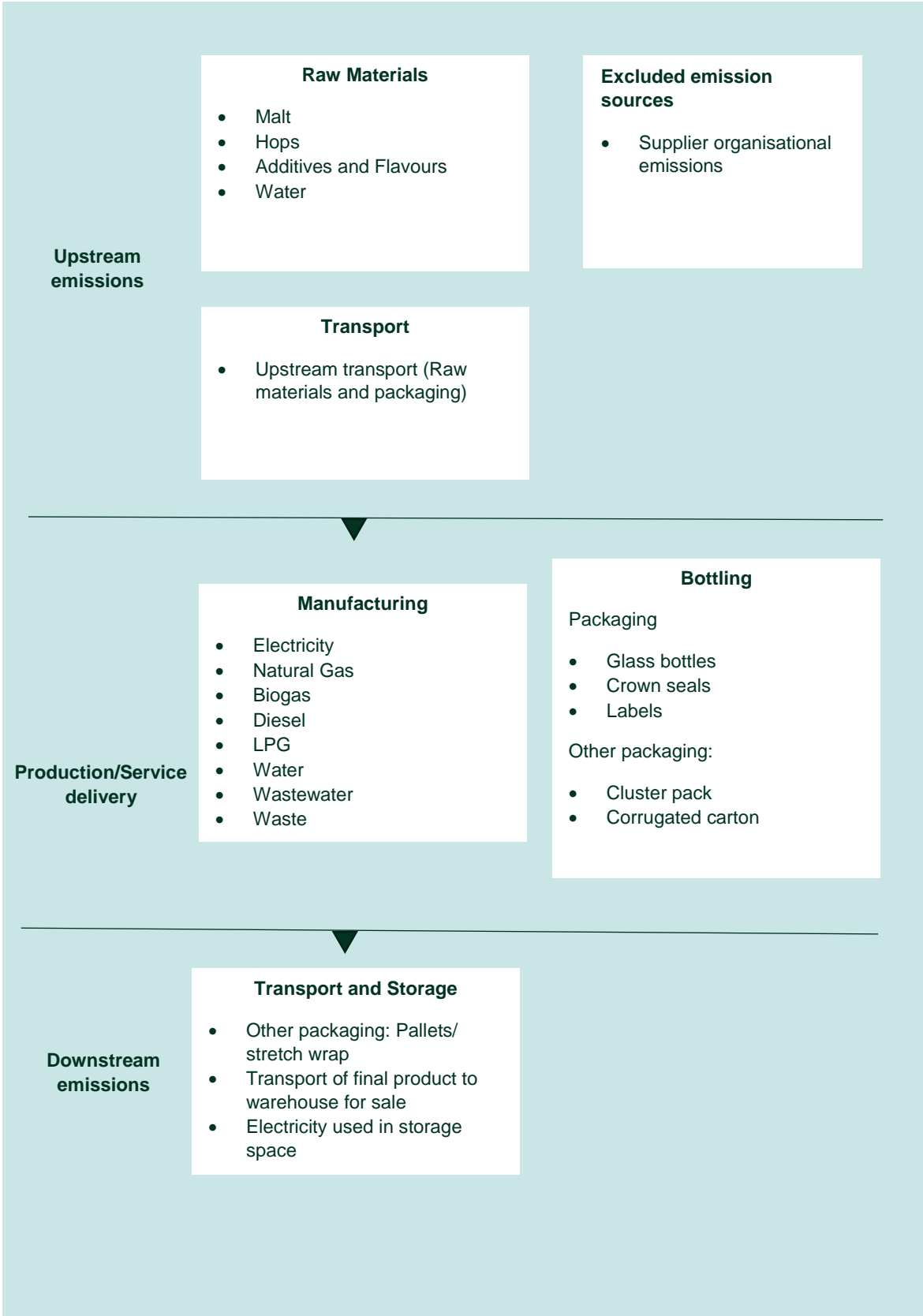
Non-quantified emissions have been assessed as attributable and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

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		Outside emission boundary
<u>Quantified</u>	<u>Non-quantified</u>	<u>Non-attributable</u>
Electricity	Hop malt extract (flavouring)	Organisation operations
Natural gas		Emissions related to activities/sources after the 'gate' stage:
Fuels		<ul style="list-style-type: none">• Retailing• Consumer phase• Post-consumer waste disposal.
Water		These items are not part of this certification claim as the cradle-to-gate approach is taken.
Wastewater		
Raw materials		
Packaging (primary)		
Other packaging		
Freight and Transport		
Warehousing		
waste		
	<u>Optionally included</u>	
	None	

Product/service process diagram



Data management plan for non-quantified sources

Although activity data exists, due to the inability to find an appropriate emission factor to determine the emissions associated with one of the flavorings added during the brewing process, the ingredient has been listed as non-quantified.

Lion expects to work with our supplier over the coming years to ensure we can include the flavoring as a quantified emission source for future reporting periods. And uplift factor has been added to the total inventory to account for this emission source.

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

At Lion, sustainability is a key part of who we are and is embedded in everything we do. Ultimately, we aim to bring to life Lion's core purpose in a way that ignites and engages our people, drives net positive change in our environment, and creates strong and resilient communities in which we operate. We are committed to playing a leading role in reducing carbon emissions.

In line with science-based targets to limit global warming to under 1.5°C, Lion has committed to a 55% reduction of Scope 1 and 2 emissions from a 2019 baseline by 2030. As part of this strategy, Lion has committed to using 100% renewable electricity across sites in the Australian and New Zealand network by 2025. In 2020, we commenced a 100% renewable Power Purchase Agreement (PPA) with our electricity supplier in NSW, including Toohey's Brewery in Lidcombe.

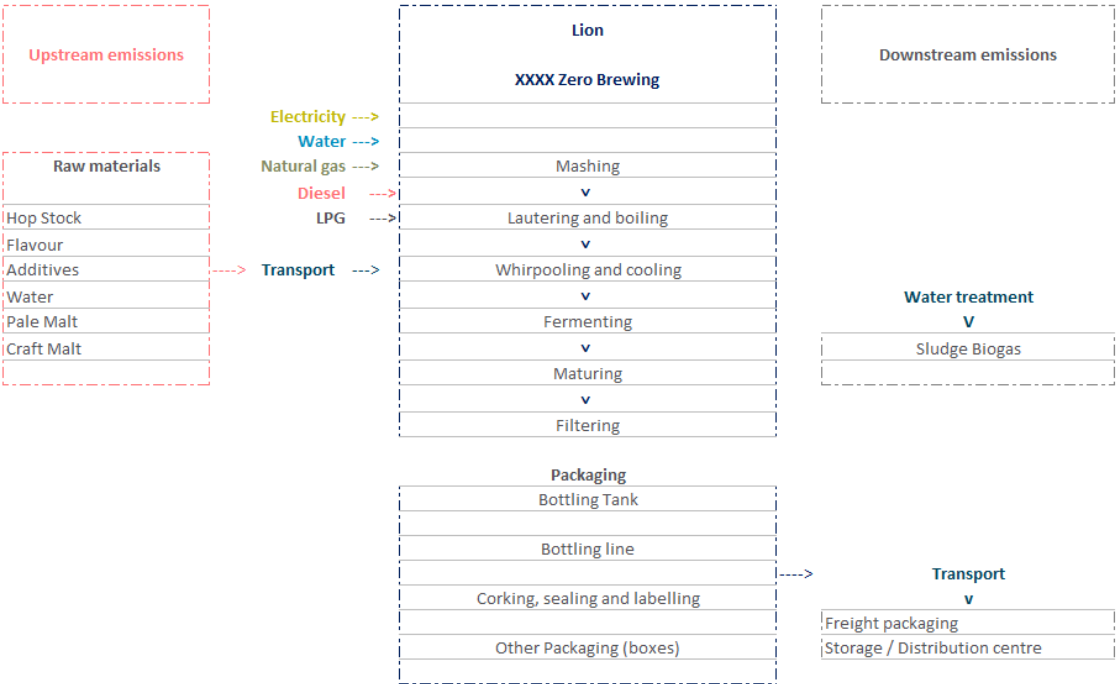
At the same time as addressing our direct emissions, Lion recognises that most of our products' lifecycle emissions come from Scope 3 (indirect) emissions sources. These emissions sources include ingredients and packaging used in our products as well as logistics services throughout the supply chain. We have set a science-based target to reduce our Scope 3 emissions by 30% by 2030, as compared to a 2019 baseline. To achieve this, we are engaging with our key suppliers to understand what causes these emissions to identify opportunities for reducing them.

5.EMISSIONS SUMMARY .

Use of Climate Active carbon neutral products and services

No carbon neutral products were used in the manufacturing process.

Product/Service emissions summary



Stage	tCO2-e
Bottling & packaging	672.42
Downstream transport & wholesale storage	214.39
Brewing	160.33
Raw material sourcing	136.54
Upstream transport	17.46
2% Uplift	24.02

Emissions intensity per functional unit	1.09 kgCO2-e/L
Number of functional units to be offset	Confidential
Total emissions to be offset	1,217

6. CARBON OFFSETS

Offsets strategy

Offset purchasing strategy: Forward purchasing		
1.	Total offsets previously forward purchased and banked for this report	0
2.	Total emissions liability to offset for this report	1,217
3.	Net offset balance for this reporting period	1,217
4.	Total offsets to be forward purchased to offset the next reporting period	0
5.	Total offsets required for this report	1,217

Co-benefits

Project Type: Human-Induced regeneration of native forests

Widespread land clearing across Queensland has significantly impacted local ecosystems. Past land management has resulted in native vegetation loss, soil compaction and reduced water quality. This degradation and loss of plant species threatens the food and habitat on which other native species rely. Clearing native forests allows weeds and invasive animals to spread, contributes to greenhouse gas emissions and leads to soil erosion and salinity.

Lion is supporting a land regeneration project in south-west Queensland. Located near Quilpie, the project works with the landholder to establish and protect permanent native forests through assisted regeneration from local seed sources. The area harbours a number of indigenous plant species which provide important habitat and nutrients for native wildlife. By erecting fencing and actively and humanely managing invasive species, the project avoids emissions caused by clearing and achieves positive climate, environmental and biodiversity benefits.

Regenerating vegetation, supporting local waterways and increasing biodiversity is boosting the resilience of the landscape while delivering significant reductions in greenhouse gas emissions.

Offsets summary

Proof of cancellation of offset units

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	Eligible Quantity (tCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
KACCU-AUS-Mulga South	ACCUs	ANREU	25 February 2022	3.809,626,998 – 3.809,628,214	2021	1,217	0	0	1,217	100%
Total offsets retired this report and used in this report									1,217	
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
Australian Carbon Credit Units (ACCUs)	1,217	100%

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

The following RECs have been surrendered to reduce electricity emissions under the market-based reporting method.


1. Large-scale Generation certificates (LGCs)*	62
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
Solar Farm	LGC	REC Registry	19 May 2021	SRPVNS88	51057-51118	2020	62	Solar	NSW, Australia
<i>Total LGCs surrendered this report and used in this report</i>									62

APPENDIX A: ADDITIONAL INFORMATION

Offset Retirement



Australian Government

Clean Energy Regulator

Australian National Registry of Emissions Units

Transaction Details

Transaction details appear below

Transaction Successfully Approved

Transaction ID

AU21421

Current Status

Completed (4)

Status Date

25/02/2022 17:02:35 (AEDT)

Status Date

25/02/2022 06:02:36 (GMT)

Transaction Type

Cancellation (4)

Transaction Initiator

Grant, Andrew William Thorold

Transaction Approver

Grant, Andrew William Thorold

Comment

Retired on behalf of Lion Ply Ltd to meet carbon neutral claim against the Climate Active Carbon Neutral standard for product certification.

Transferring Account

Account Number

AU-2734

Account Name

Tasman Environmental Markets
Ply Ltd

Account Holder

Tasman Environmental Markets
Ply Ltd

Acquiring Account

Account Number

AU-1068

Account Name

Australia Voluntary Cancellation
Account

Account Holder

Commonwealth of Australia

Transaction Blocks

Party	Type	Transaction Type	Original CP	Current CP	ERF Project ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial Range	Quantity
AU	KACCU	Voluntary ACCU Cancellation			ERF03100					2020-21		3,809,626,998 - 3,809,628,214	1,217

Logged in as: Andrew Grant / Industry User

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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 (kgCO ₂ -e)	Renewable % 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)	62,000	0	100%
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)	11,731	0	19%
Residual electricity	-11,744	-12,603	-19%
Total grid electricity	61,987	-12,603	100%
Total electricity consumed (grid + non grid)	61,987	-12,603	119%
Electricity renewables	73,731	0	
Residual electricity	-11,744	-12,603	
Exported on-site generated electricity	0	0	
Emission footprint (kgCO ₂ -e)		0	

Total renewables (grid and non-grid)	118.95%
Mandatory	18.93%
Voluntary	100.02%
Behind the meter	0.00%
Residual electricity emission footprint (tCO₂-e)	0

Figures may not sum due to rounding. Renewable percentage can be above 100%

Location-based approach summary

Location-based approach	Activity data (kWh)	Emissions (kgCO ₂ -e)
NSW	61,987	55,788
Grid electricity (scope 2 and 3)	61,987	55,788
NSW	0	0
Non-grid electricity (behind the meter)	61,987	55,788
Total electricity consumed	61,987	55,788
Emission footprint (tCO₂-e)	56	

Climate Active carbon neutral electricity summary

Carbon neutral electricity offset by Climate Active product	Activity data (kWh)	Emissions (kgCO ₂ -e)
N/A	0	0

Climate Active carbon neutral electricity is not considered renewable electricity. The emissions have been offset by another Climate Active carbon neutral product certification.

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
Extracts (flavouring)	No	No	Yes (uplift applied & data plan in place)	Yes

Excluded emission sources

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>
Any emission sources related to organisational operations.	No	No	No	Yes	No
Retailing	Yes	No	No	No	No
Consumer phase	No	No	No	No	No
Post-consumer	No	No	No	No	No



An Australian Government Initiative

