



# **PUBLIC DISCLOSURE STATEMENT**

**LION PTY LTD  
ORGANSIATION CERTIFICATION  
CY2020**

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



NAME OF CERTIFIED ENTITY: LION PTY LTD

REPORTING PERIOD: 1 JANUARY 2020 – 31 DECEMBER 2020

**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.

Signature

A handwritten signature in black ink, appearing to read "Justin Merrell".

Date 30<sup>th</sup> September 2021

Name of Signatory: Justin Merrell

Position of Signatory: Group Environment Director



**Australian Government**  
**Department of Industry, Science,**  
**Energy and Resources**

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# 1. CARBON NEUTRAL INFORMATION

## Description of certification

Lion Pty Ltd (Lion) (ABN 50 128 004 268) is Carbon Neutral certified under the Climate Active Carbon Neutral Standard for organisations for its Australian business operations.

Lion's baseline reporting year covered 1 July 2018 to 30 June 2019. This Public Disclosure Statement covers the reporting period of 1 January 2020 to 31 December 2020 which coincides with our forward offset purchasing strategy outlined in the F19 PDS. Lion will continue with a calendar year reporting period going forward.

## Organisation description

Lion is one of Australasia's largest food and beverage companies, employing approximately 3,800 people across Australia and New Zealand. The company accounts for 30 sites to produce beer, cider, wine, spirits, alcoholic ready-to-drinks and non-alcoholic beverages. Lion premium brands are market leaders across a number of different categories.

Our business lines are Lion Beer Australia, Lion New Zealand and Lion Little World Beverages. The certification emission boundary, however, comprehend operations in Australia only, where we manage many of the best brands in the market. Our wide portfolio includes:

- Alcohol Beverages: Australian, craft and international beer as well as cider.
- Australian Alcohol Export.

The locations included in Lion's emissions boundary are outlined in **Table 1**.

Changes to the organisation boundary from baseline reporting year:

- Removed LBA Logistics and Admin Tasmania site 7 George St, Launceston TAS 7250 due to closure in May 2019.
- Removed LBA Logistics and Admin Victoria site 1320 Malvern Road, VIC 3144 due to site relocation to 1183 Toorak Road Camberwell VIC 3124.

These changes to Lion's organisation site boundary are immaterial.

*“Attaining a carbon neutral status from Climate Active supports Lion’s ambitious carbon reduction program, underpinned by our commitment to a science-based target to limit global warming to under 1.5°C.”*

**Table 1: Summary of locations**

Site	Site location
Bevy	The Camfield. Roger MacKay Drive, Burswood WA 6100
Byron Bay Brewing	100 Centennial Cct, Byron Bay NSW 2481
Eumundi Brewery	1 Etheridge St, Eumundi QLD 4562
Tooheys Brewery	29 Nyrang St, Lidcombe NSW 2141
Castlemaine Perkins Brewery	185 Milton Rd, Milton QLD 4064
West End Brewery	107 Port Road, Thebarton SA 5031
Camberwell	1183 Toorak Road, Camberwell VIC 3124
Royal Park (Marine Stores)	18 Wilson Street. Royal Park, SA 5014
Garbutt	Civil Rd, Garbutt QLD 4814
Mackay	9 McCulloch St, North Mackay QLD 4740
Cairns	Plath Close. Portsmith, QLD 4870
Rockhampton - 2/122 Campbell Street	2/122 Campbell Street. Rockhampton, QLD 4700
Berrimah (Marine Stores)	33 Pruen Rd, Berrimah NT 0828
York St, Sydney (Lion Head Office)	68 York St, Sydney NSW 2000
Sydney Olympic Park (SOP)	5a Murray Rose Avenue, Sydney Olympic Park
Malt Shovel Brewery	101 Pymont Bridge Road, Camperdown NSW 2050
Little Creatures Brewery Geelong	221 Swanston St, South Geelong VIC 3220
Little Creatures Brewery Fremantle	40 Mews Rd, Fremantle WA 6160
Little Creatures Packaging O'Connor	7 Jones St, O'Connor WA 6163
Squire's Landing	Northern end of the Overseas Passenger Terminal, Circular Quay W, The Rocks NSW 2000
Kosi	1 Kosciuszko Rd, Jindabyne NSW 2627
Charming Squire	3/133 Grey St, South Brisbane QLD 4101
Crafty Squire	127 Russell St, Melbourne VIC 3000
Generous Squire	397 Murray St, Perth WA 6000
Four Pillars Distillery	119 Maroondah Highway. Healesville, VIC 3777

# 3. EMISSIONS BOUNDARY

## Diagram of the certification boundary

Lion has established an emissions boundary for its operations in Australia for its beer, spirits and wine businesses. Lion has used the operational control approach when setting the emissions boundary.



## Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

## Data management plan

Lion aims to continually improve its data collection procedures used for emissions quantification. This includes ensuring data is from accurate and reliable sources and assumptions made are consistent with standard practice. Where source data has not been available for the reporting period, estimates have been made, we will endeavour to find appropriate data.

## Non-quantified sources

N/A

## Excluded sources (outside of certification boundary)

For our baseline reporting year, 1 July 2018 to 30 June 2019, Lion undertook a detailed relevance and materiality assessment to determine the boundary of emissions for the certification. The assessment considered:

- The materiality of the emission activity/source
- The amount of influence that Lion has in reducing the amount of emissions from the activity/source
- The perceived level of climate risk from the emission source in the near-term, and
- Whether Lion expects the emission source to be important to internal & external stakeholders.

This assessment was undertaken in consultation with the Climate Active team to establish the emission boundary for Lion's organisation certification. Further details of excluded sources are outlined in Appendix 1.

*“We’re sending a strong message to our people and our supply chain that we are deepening our collective responsibility to measure, manage and reduce our emissions.”*

## 4. EMISSIONS SUMMARY

### Emissions reduction strategy

At Lion, sustainability is a key part of who we are and is embedded in everything we do. Ultimately, we 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.

Lion understands climate change is a systematic issue that all businesses must address. In a world that continues to be disrupted by COVID, we remain focused on sending a strong signal to our people and supply chain that we recognise our collective responsibility to measure, manage and reduce our emissions.

2020 was our year to step-change our climate commitments. Lion's Carbon Neutral Strategy is bold and ambitious with a clear pathway to progressively decarbonize our business. As part of this strategy, we committed to using 100% renewable electricity to brew our beers by 2025 and stretched ourselves further by adapting our existing science-based target to limit global warming to under 1.5°C.

This sets a reduction target of 55% by 2030 for Scope 1 and Scope 2 emission sources from a 2019 baseline, which aligns with the commitment made by our parent company, Kirin, in 2020.

At the same time as addressing our direct emissions, we recognise 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 our 2019 baselines. To achieve this, we are engaging with our key suppliers to understand what causes these emissions to identify opportunities for reducing them.

As part of Lion's response to climate change, three key metrics measure the effectiveness of our response: direct carbon reduction, energy efficiency and use of renewable electricity.

This year we focused on several initiatives to address these three metrics:

- First, we are converting brewery wastewater into biogas to reduce our reliance on natural gas.
- Second, we have installed rooftop solar at two of our major breweries – XXXX and Little Creatures Geelong.
- Finally, we continue to invest in energy-efficient equipment and review options for renewable electricity power purchase agreements (PPAs) to add to our PPA in New South Wales. Our dedicated teams are focusing these efforts by reviewing our sites' energy performance and identifying opportunities for improvement.

## Use of Climate Active carbon neutral products and services

Climate Active certified products used during the reporting year included:

- NDEVR Environmental consulting services

## Emissions over time

For comparison from our base year, 1 July 2018 to 30 June 2019, we have compared the twelve months between 1 January 2020 to 31 December 2020. We recognise the impact of COVID on every aspect of our supply chain and the resulting impact this may have on our emissions for this period. Going forward, we will continue reporting on a calendar year basis to compare year on year emissions.

The commencement of a Renewable Power Purchase Agreement in January 2020 in NSW resulted in a significant reduction in Scope 2 emissions for the organisation. One of our largest brewing sites, Toohey's (Lidcombe) and our Head Office (Sydney Olympic Park) are both located in NSW.

**Table 1**

Emissions since base year		
	Base year: 2018-19	Year 1: CY2020
<i>Total tCO2e</i>	92,901	61,858

## Emissions reduction actions

Emissions source	% change from previous year activity data	% Contribution to inventory	Reason for change	Detailed reason for change
<i>Total net electricity emissions (Market based)</i>	31%	45%	<i>Increased renewable electricity</i>	In January 2020, we commenced a Power Purchase Agreement in NSW. NSW has the largest number of sites in the network include Toohey's Brewery and Head Office at Sydney Olympic Park.
<i>Natural Gas QLD (metro) (GJ)</i>	-6%	9%	<i>Energy efficiency measures</i>	Conversion of brewery wastewater into biogas at Castlemaine brewery has reduced reliance on natural gas on site.
<i>Natural Gas SA</i>	-22%	6%	<i>Energy</i>	Boiler optimisation and reduced



(metro) (GJ)

efficiency  
measures

production volumes at West End Brewery in Adelaide resulted in decreased consumption of natural gas.

## Emissions summary (inventory)

Table 2

Emission source category	tonnes CO <sub>2</sub> -e
Accommodation and facilities	15.59
Air Transport (km)	993.86
Electricity	27,688.16
Land and Sea Transport (fuel)	1772.82
Land and Sea Transport (km)	1105.16
Stationary energy	30,767.31
Waste	249.21
Working from home	-733.77
<i>Total Net Emissions</i>	61,858

## Uplift factors

Table 3

Reason for uplift factor	tonnes CO <sub>2</sub> -e
None	0
<i>Total footprint to offset (uplift factors + net emissions)</i>	61,858

## Electricity summary

As per our baseline reporting year, electricity was calculated using a Market-based approach.

### Market-based approach electricity summary

Table 4

Market Based Approach	Activity Data (kWh)	Emissions (kgCO <sub>2</sub> e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	0	0	0%
<b>Total non-grid electricity</b>	<b>0</b>	<b>0</b>	<b>0%</b>
LGC Purchased and retired (kWh) (including PPAs)	18,996,000	0	34%
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)	10,691,449	0	19%
Residual Electricity	25,679,974	27,688,161	0%
<b>Total grid electricity</b>	<b>55,367,423</b>	<b>27,688,161</b>	<b>54%</b>
<b>Total Electricity Consumed (grid + non grid)</b>	<b>55,367,423</b>	<b>27,688,161</b>	<b>54%</b>
Electricity renewables	29,687,449	0	
Residual Electricity	25,679,974	27,688,161	
<b>Exported on-site generated electricity</b>	<b>0</b>	<b>0</b>	
Emission Footprint (kgCO <sub>2</sub> e)		27,688,161	

<b>Emission Footprint (TCO<sub>2</sub>e)</b>	<b>27,688</b>
Mandatory LRET renewables	19.31%
Voluntary Renewable Electricity	34.31%
<b>Total renewables</b>	<b>53.62%</b>

### Location-based approach electricity summary

Table 5

Location Based Approach	Activity Data (kWh)	Emissions (kgCO <sub>2</sub> e)
ACT	0	0
NSW	18,986,509	17,087,858
SA	9,089,517	4,726,549
Vic	3,443,827	3,753,771
Qld	18,139,891	16,870,099
NT	21,272	14,678
WA	1,753,023	1,227,116
Tas	3,933,384	668,675
<b>Grid electricity (scope 2 and 3)</b>	<b>55,367,423</b>	<b>44,348,746</b>
ACT	0	0
NSW	0	0
SA	0	0
Vic	0	0
Qld	0	0
NT	0	0
WA	0	0
Tas	0	0
<b>Non-grid electricity (Behind the meter)</b>	<b>0</b>	<b>0</b>
<b>Total Electricity Consumed</b>	<b>55,367,423</b>	<b>44,348,746</b>

Emission Footprint (TCO<sub>2</sub>e)

44,349

## Renewable Energy Certificate (REC) summary

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

<b>1. Large-scale Generation certificates (LGCs)*</b>	18,996
<b>2. Other RECs</b>	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	51647-55396	2020	3750	Solar	New South Wales
Solar Farm	LGC	REC Registry	19 May 2021	SRPVNS88	32198-35585	2020	3388	Solar	New South Wales
Solar Farm	LGC	REC Registry	19 May 2021	SRPVNS88	43522-51646	2020	8125	Solar	New South Wales
Solar Farm	LGC	REC Registry	12 February 2021	SRPVNS90	22983-26716	2020	3733	Solar	New South wales
<i>Total LGCs surrendered this report and used in this report</i>									18,996

## 5. CARBON OFFSETS

### Offset purchasing strategy: Arrears

Table 6

Forward purchasing summary	
1. Total offsets previously forward purchased for this reporting period	92,901
2. Total offsets required for this reporting period	61,858
3. Net offset balance for this reporting period	31,043
4. Total offsets to be forward purchased for next reporting period	0 (31,043 banked for next reporting year)

## Offsets summary

Table 7

<b>1. Total offsets required for this report</b>				61,858						
<b>2. Offsets retired in previous reports and used in this report</b>				61,858						
<b>3. Net offsets required for this report</b>				0						
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Quantity (tonnes CO2-e)	Quantity used in previous report	Quantity banked for future years	Quantity used in this report	
Kulera Landscape REDD+ Program for Co-Managed Protected Areas, Malawi.	VCUs	APX	25/03/2020	<a href="#">6804-345113782-345116793-VCU-001-APX-MW-14-1168-01102009-30092013-1</a>	2013	3,012	0	0	3,012	
Bundled wind energy generation projects in Gujarat, India.	VCUs	APX	25/03/2020	<a href="#">5283-221901112-221918550-VCU-005-APX-IN-1-412-01012017-31032017-0</a>	2017	17,439	0	0	17,439	
Bundled wind energy generation projects in Gujarat, India.	VCUs	APX	26/03/2020	<a href="#">7762-426758522-426805069-VCU-034-APX-IN-1-412-01042017-31122017-0</a>	2017	46,548	0	17,775	28,773	
Bundled Wind Power Project in Tamilnadu (TASMA II), India,	VCUs	APX	26/03/2020	223,151,064 - 223,153,538	CP2	2,475	0	2,475	0	
Central Arnhem Land Fire Abatement Project, NT.	ACCUs	ANREU	26/03/2020	3,785,056,979 - 3,785,058,986	2018-19	2,008	0	2,008	0	

Barney Gumble Reforestation Project, QLD.	ACCU	ANREU	26/03/2020	3,792,414,532 - 3,792,418,378	2019-20	3,847	0	0	3,847
Blinky Forest Carbon Project, QLD.	ACCU	ANREU	26/03/2020	3,792,587,336 - 3,792,590,809	2019-20	3,474	0	0	3,474
Paroo River North Environmental Project, QLD.	ACCU	ANREU	26/03/2020	3,788,412,221 - 3,788,417,533	2019-20	5,313	0	0	5,313
Wiralla Regeneration Project, QLD.	ACCU	ANREU	26/03/2020	3,790,576,159 - 3,790,580,255	2019-20	4,097	0	4,097	0
Wiralla Regeneration Project, QLD.	ACCU	ANREU	26/03/2020	3,790,569,169 - 3,790,571,118	2019-20	1,950	0	1,950	0
Wiralla Regeneration Project, QLD.	ACCU	ANREU	26/03/2020	3,789,050,792 - 3,789,051,591	2019-20	800	0	800	0
Quimby Forest Regeneration Project, QLD.	ACCU	ANREU	26/03/2020	3,792,584,657 - 3,792,586,594	2019-20	1,938	0	1,938	0
<i>Total offsets retired this report and used in this report</i>									61,858
<i>Total offsets retired this report and banked for future reports</i>									31,043

## Co-benefits

### 1. Project Type: Grid-connected electricity generation from renewable sources.

This project type harnesses renewable resources in the project region, displacing non-renewable natural resources ultimately leading to sustainable economic and environmental development. The projects support national energy security and strengthen rural electrification coverage. The projects can often result in the construction of new roads, improving accessibility for locals as well as boosting in local employment by people engaged in the project as well as improvements for local economies and village services.

The project type stated here relates to 75 per cent of the total amount of offsets purchased and retired for this reporting period.

### 2. Project Type: Human-Induced regeneration of native forests.

This project type stores carbon by regenerating native forests. Additional benefits from these projects can include improved quality of rural land and water supply, increased biodiversity and shade and shelter for farmed livestock.

The project type stated here relates to 20 per cent of the total amount of offsets purchased and retired for this reporting period.

### 3. Project Type: Mosaic and landscape-scale REDD.

This project type helps reduce deforestation and forest degradation in protected areas, preventing greenhouse gas emissions. The projects may often improve livelihoods by managing natural resources, creating long-term sustainable alternative livelihoods, improving biodiversity and increasing food security for the project region.

The project type stated here relates to 5 per cent of the total amount of offsets purchased and retired for this reporting period.

## 6. USE OF TRADE MARK

**Table 8**

Description where trademark used	Logo type
Sustainability report	Certified organisation
Website	Certified organisation
Email signature	Certified organisation
LinkedIn	Certified organisation
Other marketing materials (newsletters, online communications, printed materials)	Certified organisation

Four Pillar's Distillery is a subsidiary of Lion Pty Ltd. Four Pillar's intends to use the certification trademark to communicate that it is a carbon neutral organisation through Lion's organisation certification. All relevant quantified and non-quantified organisation emissions for Four Pillars have been included in the inventory.

## 7. ADDITIONAL INFORMATION

Lion will continue investigating the potential to certify more products in the future to continue our commitment to sustainability and emissions reduction. Lion's organisation in New Zealand is also certified carbon zero, the largest beverage manufacturer in New Zealand to achieve this milestone. Steinlager, a prominent brand in the New Zealand market, became New Zealand's first large-scale beer brand to achieve carbon zero certification. To reach this significant milestone, we focused on reducing emissions throughout Steinlager's product lifecycle – from growing the hops and barley, and brewing the beer, to packaging and transport.



# APPENDIX 1

## Excluded emissions

To be deemed relevant an emission must meet two of the five relevance criteria. Excluded emissions are detailed below against each of the five criteria.

**Table 9**

Relevance test					
Excluded emission sources	<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>
Air Transport (fuel)	No	No	No	No	No
Cleaning and chemicals	No	No	No	No	No
Construction Materials and Services	No	No	No	No	No
Food	Yes	No	No	No	No
Horticulture and Agriculture	No	No	No	No	No
Office equipment & supplies	Yes	No	No	No	No
Postage, courier and freight	No	No	No	No	No
Products	Yes	No	No	No	No
Professional Services	Yes	No	No	No	No
Roads and Landscape	Yes	No	No	No	No
Machinery and vehicles	Yes	No	No	No	No
ICT services and equipment	Yes	No	No	No	No
Water	Yes	No	No	No	No

## APPENDIX 2

### Non-quantified emissions for organisations

N/A