



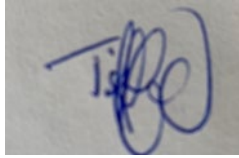
PUBLIC DISCLOSURE STATEMENT

**CITY OF MELBOURNE
MOOMBA FESTIVAL
MARCH 11-14 2022**

POST-EVENT REPORT

Australian Government
Climate Active
Public Disclosure Statement



RESPONSIBLE ENTITY NAME	City of Melbourne
NAME OF EVENT	Moomba Festival
EVENT DATE(S)	March 11-14 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>Tiffany Crawford Co-Director, Climate Change and City Resilience, City of Melbourne Date</p>



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

Public Disclosure Statement documents are prepared by the submitting organisation. The material in the Public Disclosure Statement documents represents the views of the organisation and do not necessarily reflect the views of the Commonwealth. The Commonwealth does not guarantee the accuracy of the contents of the Public Disclosure Statement document and disclaims liability for any loss arising from the use of the document for any purpose.

Version: March 2022



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	2,336.0 tCO ₂ -e
OFFSETS BOUGHT	21% ACCUs, 79% VCU's
RENEWABLE ELECTRICITY	118.59%
TECHNICAL ASSESSMENT	19/07/2022 Josh Prado Pangolin Associates Next technical assessment due: CY2025
THIRD PARTY VALIDATION	Type 2 18/07/2022 Wali Aziz Walker Wayland NSW

Contents

1. Certification summary	3
2. Carbon neutral information.....	4
3. Emissions boundary	5
4. Emissions reductions.....	8
5. Emissions summary.....	9
6. Carbon offsets.....	11
7. Renewable Energy Certificate (REC) Summary.....	14
Appendix A: Additional Information.....	15
Appendix B: Electricity summary.....	16
Appendix C: Inside emissions boundary	18
Appendix D: Outside emissions boundary	19
Appendix E: ANREU Offset Retirement.....	20

2. CARBON NEUTRAL INFORMATION

Description of certification

Event name: Moomba Festival

Event dates: 11-14 March 2022

Event location: City of Melbourne

Attendees: 499,986

Actual activity data collected from this event has informed the preparation of this carbon inventory.

Event description

The Moomba Festival is a uniquely Melbourne event held across a long weekend in March. Moomba is wholly owned by the City of Melbourne and attracted 1.43 million visitors and contributed \$47.75M to Melbourne's economy in 2022.

Moomba is centered on and around the Birrarung (Yarra River) and surrounding parks. The event is comprised of:

- Moomba Carnival: a traditional carnival show with motorised carnival rides, carnival attractions and sideshow games and food held in Alexandra Gardens.
- The Moomba Parade: a community parade of culturally diverse floats run along Linlithgow Avenue in the Kings Domain.
- Australian Skateboarding League competition held at Alexandra Gardens Skate Park.
- The Moomba Masters Australian Water Skiing Championships held on the Birrarung (Yarra River).
- The Birdman Rally: a novelty competition where individuals raise money for charity through building and flying their 'flying machines' from a platform into the Birrarung (Yarra River).

The skateboarding and water skiing competitions were managed by external organisations however all emissions for these events have been calculated and offset as part of the Moomba emissions inventory.

Moomba is seeking Climate Active carbon neutral certification for the first time in 2022. There was a slight decrease in reported attendance figures when compared with pre-event estimates. Moomba 2022 reported 499,986 'in scope' total attendees while pre-event inventory worked on an assumption of 800,000. While Moomba actually reported a visitation figure in excess 1.4 million the 'in scope' figure accounts for attendees who attended multiple sites/locations across the various festival sites. This attendance figure was reported to the City of Melbourne in an Economic Contributions and Audience Insights Research report developed by *Intuitive Solutions*. The methodology is used to more accurately represent the total revenue created by Moomba.

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 relevant and are quantified in the carbon inventory. This may include emissions that are not identified as arising due to the operations of the event, however are **optionally included**.

Non-quantified emissions have been assessed as relevant 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

Excluded emissions are those that have been assessed as not relevant to the event's operations and are outside of its emissions boundary or are outside of the scope of the certification. These emissions are not part of the carbon neutral claim. Further detail is available at Appendix D.

Inside emissions boundary

Quantified

Accommodation & facilities
Cleaning & chemicals
Construction materials & services
Electricity
Food
ICT Services & equipment
Office equipment & supplies
Postage, courier, and freight
Product
Professional services
Stationary energy (liquid)
Transport (Air)
Transport (land & seas)
Waste
Water
Fireworks

Non-quantified

Paper

Optionally included

N/A

Outside emission boundary

Excluded

N/A

Data collection – changes since the pre-event report

Emission source	Data collection method	Assumptions / conservative approach
Travel – Attendee Transport	<p>The Moomba Festival conducted a survey of 1115 attendees and gathers:</p> <ol style="list-style-type: none"> 1. Mode of transport; and 2. Origin of trip (postcode) <p>This data was then extrapolated across all attendee numbers and an attribution factor is applied based on whether an attendee visited the city for other reasons besides attending Moomba. An attribution factor is then applied dependent on how many other activities the attendee undertook on that day.</p>	<ul style="list-style-type: none"> • The extrapolation is representative of true travel distance. • That the attribution factor accurately represents the proportion of travel that can be attributed to the event versus other activities the attendee may have travelled for on that day.
Air Travel and Accommodation	<p>Data on air travel and accommodation for skateboarding and water skiing competitors and their teams and carnival operators is collected from key operational staff for each competition. Number of hotel nights and star rating of hotel are collected. Distance of air travel is calculated as a return distance from origin to destination.</p>	
Food	<p>All financial data is collected from food and beverage providers to assess economic impact. This data is also used for emissions reporting.</p>	<p>That food and beverage providers transparently report their sales figures.</p>
Electricity	<p>The City of Melbourne has access to interval data for all metered electricity use at Moomba</p>	

4. EMISSIONS REDUCTIONS

Emissions reduction measures

Use of renewable energy: The Alexandra Gardens carnival site is powered by renewable energy through the Melbourne Renewable Energy Project.

Reduce virgin materials in construction: The City of Melbourne worked with all production contractors to minimize the amount of new material used in construction for the Moomba Parade and Birdman rally.

Sustainable transport communication: It is now well understood that attendee transport is the largest single emissions source for CoM major events. Attendees to Moomba are encouraged to walk, cycle or take a tram to reduce their transport emissions.

Compost food waste: Significant back-of-house food waste was composted through the Moomba waste contractor.

Electric Vehicles: 'Tug' vehicles used to move Moomba floats along the parade route were all electric in 2022.

5. EMISSIONS SUMMARY

Significant changes in emissions – pre-event vs post-event

Emission source name	Pre-event (tCO ₂ -e)	Post-event (tCO ₂ -e)	Detailed reason for change
Food & Catering	311.2	271.1	Increased attendance
Long economy class flights (>3,700km)	180.6	334.6	More support staff and family of water skiing competitors were reported to have travelled to Moomba
Train	53.0	158.1	Per person travel distances were modelled on attendance to Melbourne Knowledge Week. In reality and on average, attendees to Moomba came from further away and preferred train and car travel to tram and cycling
Medium Car: unknown fuel	200.8	927.3	

Use of Climate Active carbon neutral products and services

Yarra Trams is powered by 100% renewables through the Victorian Renewable Energy Target (VRET) program, thus attendees traveling by tram have no associated emissions. The City of Melbourne also sources 100% renewable energy via a Power Purchase Agreement, generated by Pacific Hydro and supplied by Tango Energy.

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

Event emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a market-based approach.

Emission category	Pre-event emissions (tCO ₂ -e)	Sum of total emissions (tCO ₂ -e)
Accommodation and facilities	34.1	87.1
Cleaning and Chemicals	18.3	20.4
Construction Materials and Services	1.7	3.9
Electricity	0.0	0.0
Food	548.6	322.2
ICT services and equipment	0.0	46.6
Merchandising	44.2	0
Office equipment & supplies	0.1	0.8
Postage, courier and freight	46.3	44.1
Products	21.1	67.3
Professional Services	254.9	186.7
Stationary Energy (liquid fuels)	12.7	31.2
Transport (Air)	204.3	386.3
Transport (Land and Sea)	265.5	1,111.1
Waste	14.4	26.8
Water	0.01	0.5
Fireworks	17.9	1.0
Total net emissions	1,484.0	2,336.0
Difference between pre-event and post-event emissions		852.03

Uplift factors

N/A

Reason for uplift factor	tCO ₂ -e
N/A	
Total of all uplift factors	
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	2,336.0

6. CARBON OFFSETS

Eligible offsets retirement summary

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 (%)
*Boobera Carbon Project	ACCUs	ANREU	03/06/2020	3,792,963,615 – 3,792,964,614	2019-20		120	0	0	120	5%
**Savanna Burning Investment Ready Project - Cape York Pilot Aurukun	ACCUs	ANREU	03/06/2020	3,799,427,512 - 3,799,428,511	2020		364	0	0	364	15.5%
Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China	VCUs	VERRA	20/01/2020	9407-95964708-95965707-VCS-VCU-785-VER-CN-1-438-28032016-25092016-1	2016		1000	0	0	1000	43%
Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China	VCUs	VERRA	10/06/2022	13098-471500812-471501663-VCS-VCU-785-VER-CN-1-438-28032016-25092016-1	2016		852	0	0	852	36.5%
Total offsets retired this report and used in this report										2,336	
Total offsets retired this report and banked for future reports										0	

*The City of Melbourne's offset provider has pre-retired all 1000 ACCUs from this project. A total of 671 offset units are attributed to Melbourne Fashion Week 2021. A further 209 offset units are attributed to Melbourne Music Week 2021. This leaves 120 units remaining which are attributed to Moomba 2022.

** The City of Melbourne's offset provider has pre-retired all 1000 ACCUs from this project. A total of 147 units are attributed to Melbourne Knowledge Week 2021. A further 364 are attributed to Moomba 2022, 262 attributed to Firelight Festival 2022 and 177 attributed to Melbourne Fashion Week 2022

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Australian Carbon Credit Units (ACCU)s	484	21%
Verified Carbon Units (VCUs)	1852	79%

Co-benefits

Boobera Carbon Project

Restoring native forests and sequestering carbon on degraded agricultural land, this project establishes permanent native forests through assisted regeneration from in-situ seed sources (including rootstock and lignotubers) on land that was cleared of vegetation and where regrowth was suppressed for at least 10 years prior to the project having commenced.

Savanna Burning Savanna Burning Investment Ready Project - Cape York Pilot Aurukun

Caring for country in the Western Cape York. Overseen by Indigenous-led not-for-profit, Aak Puul Ngantam (APN Cape York), this project engages local Wik and Kugu Traditional Owners as project rangers in traditional Indigenous fire management practices, carrying out strategic 'cool' burns in the tropical winter to reduce emissions from larger, late-season bushfires

Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China

Huoshi Grouped Small Hydro consists of multiple small-scale hydropower plants that generate renewable energy for rural Southwest and South Central China. By supplying clean hydroelectric power to the local grid, the project displaces greenhouse gas emissions, helping mitigate climate change and improving the lives of local people

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)*	4
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
Wind Farm	4	REC Registry	NA	NA	NA	2022	3.6	Wind	Vic, Australia
<i>Total LGCs surrendered this report and used in this report</i>							4		

LGCs retired as part of the City of Melbourne's organisational carbon neutral claim and reported in the Public Disclosure Statement for the same.

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 (kgCO ₂ e)	Renewable Percentage 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)	3,584	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)	666	0	19%
Residual Electricity	-666	-663	-19%
Total grid electricity	3,584	-663	100%
Total Electricity Consumed (grid + non grid)	3,584	-663	119%
Electricity renewables	4,250	0	
Residual Electricity	-666	-663	
Exported on-site generated electricity	0	0	
Emissions (kgCO ₂ e)		0	

A minus Residual Electricity Emissions in kgCO₂e rounds to zero because the negative emissions can only be used to reduce electricity consumption emissions.

See electricity accounting rules for further information

Total renewables (grid and non-grid)	118.59%
Mandatory	18.59%
Voluntary	100.00%
Behind the meter	0.00%
Residual Electricity Emission Footprint (TCO2e)	0
<i>Figures may not sum due to rounding. Renewable percentage can be above 100%</i>	

Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
Vic	3,584	3,261	358
Grid electricity (scope 2 and 3)	3,584	3,261	358
Total Electricity Consumed	3,584	3,261	358

Emission Footprint (TCO2e)	4
<i>Scope 2 Emissions (TCO2e)</i>	3
<i>Scope 3 Emissions (TCO2e)</i>	0

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
	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 sources emissions have been assessed as relevant, 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.

Relevant-non-quantified emission sources	(1) Immaterial	(2) Cost effective (but uplift applied)
Paper	Yes	No

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources


Those which only meet one condition of the relevance test can be excluded from the certification boundary.

Emissions tested for relevance are detailed below against each of the following criteria:

1. **Size** The emissions from a particular source are likely to be large relative to the event’s electricity, stationary energy and fuel emissions
2. **Influence** The responsible entity has the potential to influence the reduction of emissions from a particular source.
3. **Risk** The emissions from a particular source contribute to the event’s greenhouse gas risk exposure.
4. **Stakeholders** Key stakeholders deem the emissions from a particular source are relevant.
5. **Outsourcing** The emissions are from outsourced activities previously undertaken within the event’s boundary, or from outsourced activities typically undertaken within the boundary for comparable events.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
Electricity	Automatically deemed relevant					
Attendee travel	Automatically deemed relevant					
Food and drink	Automatically deemed relevant					
Accommodation	Automatically deemed relevant					
Waste	No	Yes	Yes	Yes	No	Yes
Water	No	Yes	Yes	Yes	No	Yes
Event preparation	Yes	Yes	Yes	No	No	Yes
Diesel for generators	Yes	No	Yes	Yes	No	Yes
Marketing & Advertising	No	Yes	No	No	No	Yes

APPENDIX E: ANREU OFFSET RETIREMENT



Australian National Registry of Emissions Units

Change Password Contact Us Log Out Help

Logged in as: Rhyannon Galea / Industry User

ANREU Home

Account Holders

Accounts

Unit Position Summary

Projects

Transaction Log

CER Notifications

Public Reports

My Profile

Transaction Details

Transaction details appear below:

Transaction Successfully Approved

Transaction ID	AU15162
Current Status	Completed (4)
Status Date	03/06/2020 18:37:47 (AEST) 03/06/2020 08:37:47 (GMT)
Transaction Type	Cancellation (4)
Transaction Initiator	Galea, Rhyannon Margaret Rosalie
Transaction Approver	Galea, Rhyannon Margaret Rosalie
Comment	Carbon credits retired on behalf of City of Melbourne to comply with its Climate Active certification for emissions during FY2019/20

Transferring Account

Account Number AU-2977

Account Name South Pole Australia Financial Services Pty Ltd

Account Holder South Pole Australia Financial Services Pty Ltd

Acquiring Account

Account Number AU-1068

Account Name Australia Voluntary Cancellation Account

Account Holder Commonwealth of Australia

Party	Units	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			ERF101805					2019-20		3,792,963,615 - 3,792,964,614	1,000
AU	KACCU	Voluntary ACCU Cancellation			EQP100972					2019-20		3,799,427,512 - 3,799,428,511	1,000

Status Date	Status Code
03/06/2020 18:37:47 (AEST)	Completed (4)
03/06/2020 08:37:47 (GMT)	
03/06/2020 18:37:47 (AEST)	Proposed (1)
03/06/2020 08:37:47 (GMT)	
03/06/2020 18:37:47 (AEST)	Account Holder Approved (97)
03/06/2020 08:37:47 (GMT)	
03/06/2020 18:37:26 (AEST)	Awaiting Account Holder Approval (95)
03/06/2020 08:37:26 (GMT)	

Accessibility Disclaimer Privacy



An Australian Government Initiative

