




PUBLIC DISCLOSURE STATEMENT

**CITY OF MELBOURNE
MOOMBA 2023
MARCH 9-13, 2023**

POST-EVENT REPORT

Australian Government
Climate Active
Public Disclosure Statement



RESPONSIBLE ENTITY NAME	Melbourne City Council
NAME OF EVENT	Moomba 2023
EVENT DATE(S)	March 9-13, 2023
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>Krista Milne Co-Director, Climate Change and City Resilience, City of Melbourne 16/05/2023</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	2473 tCO ₂ -e
OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	119%
CARBON ACCOUNT	Prepared by: City of Melbourne
TECHNICAL ASSESSMENT	Next technical assessment due: CY2025
THIRD PARTY VALIDATION	N/A

Contents

City of Melbourne	1
Moomba 2023	1
March 9-13, 2023	1
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	13
Appendix A: Additional Information	14
Appendix B: Electricity summary	15
Appendix C: Inside emissions boundary	18
Appendix D: Outside emissions boundary	19

2. CARBON NEUTRAL INFORMATION

Description of certification

Event name: Moomba 2023

Event date(s): March 9 - 13

Event location(s): Alexandra Gardens, Kings Domain, Birrarung Marr, Birrarung (Yarra River)

Expected attendees: one million+

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 the Labour Day long weekend in March. Moomba is wholly-owned by the City of Melbourne and regularly attracts over one million people to the various elements centered on and around the Birrarung (Yarra River) and surrounding parks. The event is comprised of:

- Moomba Carnival: a traditional carnival showground 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.
- 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 are managed by external organisations however all emissions for these events were calculated and offset as part of the Moomba emissions inventory.

Moomba was proudly carbon neutral for the second year in 2023.

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 and facilities
Cleaning and Chemicals
Construction Materials and Services
Electricity
Food
ICT services and equipment
Office equipment & supplies
Postage, courier and freight
Products
Professional Services
Stationary Energy (liquid fuels)
Transport (Air)
Transport (Land and Sea)
Waste
Water

Non-quantified

N/A

Optionally included

N/A

Outside emission boundary

Excluded

Event preparation
Attendee accommodation

Data collection – changes since the pre-event report

Emission source	Data collection method	Assumptions / conservative approach taken
Attendee travel	<p>The Moomba Festival conducts a survey of more than 1000 attendees and gathers:</p> <ol style="list-style-type: none"> 1. Mode of transport; and 2. Origin of trip (postcode) 3. Other activities undertaken on the day they attended Moomba <p>From this, a total distance by travel mode is calculated and then extrapolated across all attendees. A 'travel attribution factor' is applied based on how many other activities were undertaken in the city besides attending Moomba.</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.
Accommodation and Air Travel	<p>Data collection sheets are filled in by event organisers detailing number of nights' accommodation and star rating for – Skateboarding and water-skiing competitors and their teams and carnival operators.</p>	<ul style="list-style-type: none"> • Where the star rating of a hotel is unknown/not detailed, a default of 4 star is applied. <p>All flights are assumed to be return.</p>
Food and drinks	<p>All catering vendors must report their daily takings to Moomba staff via electronic register read-outs.</p>	
Electricity	<p>The City of Melbourne collects all utility interval data for Moomba sites through data management software, ensuring that actual electricity data can be accurately collected.</p>	
Ground Transport – Contractors	<p>Data collection sheets are filled in by main carnival contractors which collects carnival operators' freight transport vehicle type and distance travelled to Moomba.</p>	
Professional Services	<p>All invoices for the various professional services are managed through a central budget.</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 Moomba Parade: The City of Melbourne worked with all production contractors to minimise the amount of new material used in construction for the Moomba Parade.

Sustainable transport communication: It is now well understood that attendee transport is the largest single emissions source for CoM major events. Attendees to Moomba were 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.

Reduce single use waste items: Moomba reduced waste to landfill by ensuring suppliers eliminated single use items like plastic drink bottles.

Offset flights: Contractors for the carnival and participants in the skate and water-skiing competition were encouraged to offset their flights at the point of booking.

5. EMISSIONS SUMMARY

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

Emission source name	Pre-event emissions (t CO ₂ -e)	Post-event emissions (t CO ₂ -e)	Detailed reason for change
Food	354.4	530.27	The Carnival element of Moomba was operating for one extra day in 2023 compared to 2022
Professional services	186.7	275.96	More of the budget spend was consolidated into less contractors
Transport (Air)	386.3	428.49	There were less water-skiing competitors in 2022 due to COVID
Transport (Land and Sea)	1222.0	989.40	Many fewer passenger km were travelled by car for attendees.

Use of Climate Active carbon neutral products and services

N/A.

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 totals (tCO ₂ -e)	Sum of scope 1 (tCO ₂ -e)	Sum of scope 2 (tCO ₂ -e)	Sum of scope 3 (tCO ₂ -e)	Sum of Total Emissions (t CO ₂ -e)
Accommodation and facilities	87.1	0.00	0.00	38.81	38.81
Cleaning and Chemicals	20.4	0.00	0.00	25.47	25.47
Construction Materials and Services	3.9	0.00	0.00	1.92	1.92
Electricity	0.0	0.00	0.00	0.00	0.00
Food	354.4	0.00	0.00	530.27	530.27
ICT services and equipment	46.6	0.00	0.00	0.00	0.00
Office equipment & supplies	0.8	0.00	0.00	2.37	2.37
Postage, courier and freight	44.1	0.00	0.00	40.67	40.67
Products	67.2	0.00	0.00	69.59	69.59
Professional Services	186.7	0.00	0.00	275.96	275.96
Stationary Energy (liquid fuels)	31.2	29.78	0.00	7.34	37.12
Transport (Air)	386.3	0.00	0.00	428.49	428.49
Transport (Land and Sea)	1222.0	1.42	0.00	989.40	990.81
Waste	26.8	0.00	0.00	30.68	30.68
Water	0.6	0.00	0.00	0.48	0.48
Fireworks	1.0	0.00	0.00	0.00	0.00
Total emissions	2479.3	31.20	0.00	2441.47	2472.67
Difference between pre-event and post-event emissions	6.6 tCO₂-e				

Uplift factors

N/A

Reason for uplift factor	tCO ₂ -e
Total of all uplift factors	0.00
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	2473

6. CARBON OFFSETS

Eligible offsets retirement summary

The total emission to offset for this certification is 2473 t CO₂-e. The total number of eligible offsets used in this report is 2473. Of the total eligible offsets used, 2480 were previously banked and 2473 were newly purchased and retired. Seven are remaining and have been banked for future use.

Offsets retired 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 retired (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 (%)
Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China	VCU	VERRA	07-10-22	9407-95970483-95972962-VCS-VCU-785-VER-CN-1-438-28032016-25092016-1	2016		2,480	0	7	2,473	100
Total offsets retired this report and used in this report										2473	
Total offsets retired this report and banked for future reports										7	

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Carbon Units (VCUs)	2,480	100

Co-benefits

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)*


^{^3}


* 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.

[^]LGCs in this table have been retired as part of the City of Melbourne's PPA and are registered and reported in the City's organisational carbon neutral PDS. It is not possible to attribute particular LGC serial numbers to the electricity used at this event.

Project supported by LGC purchase	Project location	Eligible unit type	Registry	Surrender date	Accreditation code	Certificate serial number	Generation year	Fuel source	Quantity (MWh)
Crowlands Windfarm - VIC	VIC, Australia	LGC	REC Registry	N/A	N/A	N/A	2022	Wind	2.7
Total LGCs surrendered this report and used in this report									^{^3}

APPENDIX A: ADDITIONAL INFORMATION





**Verified Carbon
Standard**

Certificate of Verified Carbon Unit (VCU) Retirement


Verra, in its capacity as administrator of the Verra Registry, does hereby certify that on 06 Oct 2022, 2,480 Verified Carbon Units (VCUs) were retired on behalf of:

City of Melbourne

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

VCU Serial Number
9407-95970483-95972962-VCS-VCU-785-VER-CN-1-438-28032016-25092016-1

Additional Certifications
Social Carbon

Powered by  APX

APPENDIX B: ELECTRICITY SUMMARY

There are two international best-practice methods for calculating electricity emissions – the location-based method and the market-based method. Reporting electricity emissions under both methods is called dual reporting.

Dual reporting of electricity emissions is useful, as it provides different perspectives of the emissions associated with a business's electricity usage.

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.

For this certification, electricity emissions have been set by using the market-based approach.

Market Based Approach Summary			
Market Based Approach	Activity Data (kWh)	Emissions (kg CO2-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)	2,658	0	100%
GreenPower	0	0	0%
Climate Active precinct/building (voluntary renewables)	0	0	0%
Precinct/Building (LRET)	0	0	0%
Precinct/Building jurisdictional renewables (LGCs surrendered)	0	0	0%
Electricity products (voluntary renewables)	0	0	0%
Electricity products (LRET)	0	0	0%
Electricity products jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	495	0	19%
Residual Electricity	-495	-473	0%
Total renewable electricity (grid + non grid)	3,153	0	119%
Total grid electricity	2,658	0	119%
Total electricity (grid + non grid)	2,658	0	119%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	-495	-473	
Scope 2	-438	-418	
Scope 3 (includes T&D emissions from consumption under operational control)	-58	-55	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	118.64%
Mandatory	18.64%
Voluntary	100.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO2-e)	-0.42
Residual scope 3 emissions (t CO2-e)	-0.06
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	0.00
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	0.00
Total emissions liability (t CO2-e)	0.00

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

Location Based Approach Summary

Location Based Approach	Activity Data (kWh) total	Under operational control			Not under operational control	
Percentage of grid electricity consumption under operational control	100%	(kWh)	Scope 2 Emissions (kg CO2-e)	Scope 3 Emissions (kg CO2-e)	(kWh)	Scope 3 Emissions (kg CO2-e)
ACT	0	0	0	0	0	0
NSW	0	0	0	0	0	0
SA	0	0	0	0	0	0
VIC	2,658	2,658	2,259	186	0	0
QLD	0	0	0	0	0	0
NT	0	0	0	0	0	0
WA	0	0	0	0	0	0
TAS	0	0	0	0	0	0
Grid electricity (scope 2 and 3)	2,658	2,658	2,259	186	0	0
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	0	0	0	0		
QLD	0	0	0	0		
NT	0	0	0	0		
WA	0	0	0	0		
TAS	0	0	0	0		
Non-grid electricity (behind the meter)	0	0	0	0		
Total electricity (grid + non grid)	2,658					

Residual scope 2 emissions (t CO2-e)	2.26
Residual scope 3 emissions (t CO2-e)	0.19
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	2.26
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	0.19
Total emissions liability (t CO2-e)	2.45

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

N/A

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.
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** The emissions from a particular source are deemed relevant by key stakeholders.
5. **Outsourcing** The emissions are from outsourced activities that were previously undertaken within the event's boundary or from outsourced activities that are typically undertaken within the boundary for comparable events.

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Attendee Accommodation	N	N	N	N	N	<p>Size: Moomba is an event for local Melbourne residents. In the event that an attendee is from out-of-state, it is unlikely that they travelled to Melbourne for the sole purpose of attending Moomba. All accommodation for out-of-state contractors and out-of-state and international skate and water skiing competitors has been included in-scope.</p> <p>Influence: We do not have the potential to influence the emissions from this source.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for Moomba.</p> <p>Outsourcing: We have not previously undertaken this activity within our emissions boundary.</p>
Event preparation	N	Y	N	N	N	<p>Size: Event preparation is undertaken by City of Melbourne staff working on a number of other events. Event preparation as it relates to contractors is included in scope via the cost for their services.</p> <p>Influence: Time spent on event preparation by City of Melbourne staff is in the sphere of influence of the City of Melbourne.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for Moomba.</p> <p>Outsourcing: We have not previously undertaken this activity within our emissions boundary.</p>

Excluded emissions sources summary



An Australian Government Initiative

