




PUBLIC DISCLOSURE STATEMENT

**CITY OF MELBOURNE
FIRELIGHT FESTIVAL
JUNE 28 – 30, 2024**

PRE-EVENT REPORT

Australian Government
**Climate Active
Public Disclosure Statement**



RESPONSIBLE ENTITY NAME	City of Melbourne
NAME OF EVENT	Firelight Festival 2024
EVENT DATE(S)	June 28-30, 2024
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 27/02/2024</p>



Australian Government
**Department of Climate Change, Energy,
the Environment and Water**

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Version: January 2024

1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	490 tCO ₂ -e
CARBON OFFSETS USED	100% VERs
RENEWABLE ELECTRICITY	19%
CARBON ACCOUNT	Prepared by: City of Melbourne
TECHNICAL ASSESSMENT	Next technical assessment due: 2025

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2. CERTIFICATION INFORMATION

Description of certification

Description of certification

Event name: Firelight Festival

Event date(s): June 28 – 30, 2024

Event location(s): Melbourne Docklands, Marvel Stadium

Expected Attendees: 100,000

Activity data collected from previous occurrences of this event has informed the preparation of this carbon inventory.

Event description

Melbourne's Firelight Festival is a multi-day celebration of the winter solstice held in the Docklands precinct of Melbourne. Owned and produced by the City of Melbourne, the Firelight Festival revels in themes of family and community, food and feasting, singing and music and renewal and rebirth. The event is predicting to attract 100,000 attendees in 2024 with additional programming planned.

All attendee transport, activations, food and beverage sales and entertainment brought to the precinct by Firelight organisers is included in the scope of this certification. The fuels, electricity, management costs, bump-in and bump-out services, waste and post-event clean-up are also part of the certification scope. Any uplift to existing Docklands businesses is not included in the scope.

This will be the third consecutive year that Firelight Festival has sought carbon neutral certification.

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		Outside emission boundary
<u>Quantified</u>	<u>Non-quantified</u>	<u>Excluded</u>
Accommodation and facilities	N/A	N/A
Cleaning and Chemicals		
Electricity		
Food		
Office equipment & supplies		
Products		
Professional Services		
Stationary Energy (liquid fuels)		
Stationary Energy (solid fuels)		
Transport (Air)		
Transport (Land and Sea)		
Waste		
Water		
Office equipment and supplies		

Data collection

Emissions source	Data collection method	Assumptions / conservative approach taken
Attendee travel	A sample of 500-1000 attendees are surveyed on their travel mode, origin postcode and purposes of their travel. Total distance by mode figures are extrapolated across all attendees to the event and a proportional attribution factor applied dependent on the average number of 'other activities' an attendee was engaged in on that day	
Accommodation	All interstate management staff are surveyed regarding their accommodation arrangements and all hotel nights are reported.	
Food and drinks	All food and beverage vendor sales figures are collected by Firelight management.	
Electricity	Sub-metering data is collected by event management contracting for all plug-in loads.	
Professional services	A central budget is managed for Firelight Festival detailing all invoiced services for the event.	
Stationary Energy (liquid fuels)	All contractors responsible for fuel consuming equipment are briefed before the event of the requirement to report on fuel use. Data collection sheets are used to record fuel use.	

4. EMISSIONS REDUCTIONS

Emissions reduction measures

Firelight is in its third year of carbon neutrality. The 2024 event is increasing in size (and emissions) due to extended programming.

1. Limited the amount of new construction – No new activations are planned for construction in 2024.
2. Food organics will continue to be collected and sent to a composting facility to minimise emissions from waste in landfill in 2024.
3. Unlike most of the existing programming, the new programming will not include liquid or solid fuels. It will be an immersive, 100% LED light labyrinth.

5. EMISSIONS SUMMARY

Use of Climate Active carbon neutral products, services, buildings or precincts

N/A

Emissions summary

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

Emission category	Scope 1 emissions (tCO ₂ -e)	Scope 2 emissions (tCO ₂ -e)	Scope 3 emissions (tCO ₂ -e)	Total emissions (t CO ₂ -e)
Accommodation and facilities	0.00	0.00	1.38	1.38
Cleaning and chemicals	0.00	0.00	2.51	2.51
Electricity	0.00	1.69	0.21	1.90
Food	0.00	0.00	154.45	154.45
Products	0.00	0.00	0.25	0.25
Professional services	0.00	0.00	84.15	84.15
Stationary energy (liquid fuels)	16.81	0.00	4.77	21.59
Stationary energy (solid fuels)	0.10	0.00	0.00	0.10
Transport (air)	0.00	0.00	1.16	1.16
Transport (Land and Sea)	0.00	0.00	217.20	217.20
Waste	0.00	0.00	4.67	4.67
Water	0.00	0.00	0.09	0.09
Office equipment and supplies	0.00	0.00	0.24	0.24
Total	16.91	1.69	471.09	489.68

Uplift factors

N/A

Total of all uplift factors (tCO ₂ -e)	0.00
Total emissions footprint to offset (tCO₂-e) <i>(total pre-event emissions from summary table + total of all uplift factors)</i>	489.68

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

This is a pre-event report. Any eligible offsets allocated to this event will be reconciled as part of the post-event report.

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Emissions Reductions (VERs)	490	100%

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 reports	Eligible quantity banked for future reports	Eligible quantity allocated for this event	Percentage of total (%)
Miaoli 49.8MW wind farm project + Mount Sandy conservation biodiversity units	Gold Standard VER + Australian Biodiversity Unit	Gold Standard ABU	23/02/2024	GS1-1-TW-GS931-12-2014-4575-36668-37157	2014	0	490	0	0	490	100
			22/02/2024	103394 - 103883	2020	490	0	0	0		
Total eligible offsets retired and allocated for this event										490	
Total eligible offsets retired and banked for future reports									0		

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.

Mount Sandy conservation biodiversity units

Located on the traditional lands of the Ngarrindjeri people, Traditional Custodians of the Coorong, Mount Sandy is a rare pocket of intact native vegetation in a region now dominated by farmlands. The site features a unique mix of coastal shrub-lands and saline swamplands that provide strategic habitat for iconic native wildlife, such as the short-beaked echidna, purple-gaped honeyeater and elegant parrot. The Mount Sandy project ensures permanent protection for a regionally and culturally important pocket of biodiversity-rich land in partnership with its Traditional Owners. Local birds, animals and plants flourish undisturbed, while native plants for revegetation will be supplied by the local nursery at Raukkan Aboriginal Community, a self-governed Indigenous community 50 kilometres northwest of the project site.

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

BIODIVERSITY UNIT CERTIFICATE

MOUNT SANDY CONSERVATION PROJECT

This certificate confirms that

490

Australian Biodiversity Units
(735 square metres)

have been purchased and are being retired by

City of Melbourne

CRN: 105685

Serial Numbers: 103394 - 103883

An Australian Biodiversity Unit (ABU) represents the permanent protection of 1.5 square metres of high conservation value native habitat



22/02/2024

Registrar Certification

date

NVCR ALLOCATION REFERENCE: NVS2019-4003-182VOL003



vegetationlink
Verified Biodiversity Units

We are delighted to confirm the retirement of
490 Verified Emission Reductions (VERs)
by
South Pole Carbon Asset Management Ltd.
on 23/02/2024

Credits retired on behalf of the City of Melbourne Firelight Festival 2024

Project: Miaoli 49.8MW Wind Farm Project

*These credits have been retired, saving **490** tonnes of CO2 emissions
from being released into the atmosphere.
Thank you for investing in a safer climate and more sustainable world.*

[View retirement](#)

Gold Standard

Retirement certificates are hosted on the Gold Standard Impact Registry, [view your certificate](#).

Gold Standard | Chemin de Balxert 7-9 1219 Châtelaine, International Environment House 2, Switzerland | goldstandard.org, +41 22 788 70 80, help@goldstandard.org

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)	0	0	0%
GreenPower	0	0	0%
Climate Active certified - Precinct/Building (voluntary renewables)	0	0	0%
Climate Active certified - Precinct/Building (LRET)	0	0	0%
Climate Active certified - Precinct/Building jurisdictional renewables (LGCs surrendered)	0	0	0%
Climate Active certified - Electricity products (voluntary renewables)	0	0	0%
Climate Active certified - Electricity products (LRET)	0	0	0%
Climate Active certified - 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)	488	0	19%
Residual electricity	2,086	1,898	0%
Total renewable electricity (grid + non grid)	488	0	19%
Total grid electricity	2,574	1,898	19%
Total electricity (grid + non grid)	2,574	1,898	19%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	2,086	1,898	
Scope 2	1,857	1,690	
Scope 3 (includes T&D emissions from consumption under operational control)	229	209	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	18.96%
Mandatory	18.96%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO2-e)	1.69
Residual scope 3 emissions (t CO2-e)	0.21
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	1.69
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	0.21
Total emissions liability (t CO2-e)	1.90
<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) 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	2,574	2,574	2,033	180	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)	2,574	2,574	2,033	180	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)	2,574					

Residual scope 2 emissions (t CO2-e)	2.03
Residual scope 3 emissions (t CO2-e)	0.18
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	2.03
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	0.18
Total emissions liability (t CO2-e)	2.21

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following emissions sources 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	Justification reason
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.

Excluded emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
No emissions sources were excluded						<p>Size:</p> <p>Influence:</p> <p>Risk:</p> <p>Stakeholders:</p> <p>Outsourcing:</p>

N/A





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