




PUBLIC DISCLOSURE STATEMENT

**CITY OF MELBOURNE
FIRELIGHT FESTIVAL
JUNE 28 - JULY 14, 2024**

POST-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 – July 14, 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 10/09/2024</p> |



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

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Version: August 2023



1. CERTIFICATION SUMMARY

| | |
|------------------------|-------------------------------------|
| TOTAL EMISSIONS OFFSET | 412 tCO ₂ -e |
| CARBON OFFSETS USED | 100% VERs |
| RENEWABLE ELECTRICITY | 0% |
| CARBON ACCOUNT | Prepared by: City of Melbourne |
| TECHNICAL ASSESSMENT | Next technical assessment due: 2025 |
| THIRD PARTY VALIDATION | N/A |

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2. CERTIFICATION INFORMATION

Description of certification

This certification is for Firelight Festival which was held on June 28-30 at the Docklands precinct plus the Firelight Labyrinth held at Marvel stadium between June 28 and July 14. The Firelight Labyrinth was an additional piece of programming added to Firelight 2024 and consisted of an extensive, interactive lighting display in the carpark of Marvel Stadium.

The Firelight weekend attracted 80,118 attendees while the Firelight Labyrinth saw 18,372.

Actual data collected from 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.

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. All fuel use, 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 achieved 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

Quantified

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

Non-quantified

Outside emission boundary

Excluded

N/A

Data collection – changes since the pre-event report

| Emissions source | Data collection method | Assumptions / conservative approach taken |
|----------------------------------|--|---|
| Attendee travel | A sample of 1164 attendees were surveyed on their travel mode, origin postcode and purposes of their travel. Total distance by mode figures were 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 | Any 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 were collected by Firelight management. | |
| Electricity | Sub-metering data and equipment lists for areas not sub-metered was 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 were briefed before the event of the requirement to report on fuel use. Data collection sheets are used to record fuel use. | |
| Postage, courier and freight | A central budget is managed for Firelight Festival detailing all invoiced freight services for the event. | |

4. EMISSIONS REDUCTIONS

Emissions reduction measures

In its third year of carbon neutral certification, the Firelight team has focused on ensuring compliance with data collection from contractors. With an expanded program of events, new emissions sources were identified.

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 did not include liquid or solid fuels. It was an immersive, 100% LED light labyrinth.

5. EMISSIONS SUMMARY

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

| Emission source | Pre-event emissions (t CO ₂ -e) | Post-event emissions (t CO ₂ -e) | Reason for change |
|------------------------------|--|---|--|
| Food | 154.45 | 126.95 | There was a reduction in attendance at the regular weekend programming element of Firelight in 2024. It is at the weekend festival that all food and beverage sale are made. |
| Professional Services | 84.15 | 129.01 | There was a significant increase in costs in 2024 due to the Firelight Labyrinth being a new area of programming |
| Postage, courier and freight | 0.00 | 48.83 | Programming elements had to be freighted in from across Australia and overseas. |
| Transport (Land and Sea) | 217.20 | 78.07 | There was an overall reduction in attendance to Firelight 2024. This was compounded by an average distance travelled per attendee also reducing. |

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 | Pre-event | Post-event | | | Sum of total emissions (t CO ₂ -e) |
|--|--|---|--------------------------------------|--------------------------------------|---|
| | Total emissions (t CO ₂ -e) | Sum of scope 1 (tCO ₂ -e) | Sum of scope 2 (tCO ₂ -e) | Sum of scope 3 (tCO ₂ -e) | |
| Accommodation and facilities | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaning and Chemicals | 2.51 | 0.00 | 0.00 | 3.13 | 3.13 |
| Electricity | 1.90 | 0.00 | 2.38 | 0.29 | 2.68 |
| Food | 154.45 | 0.00 | 0.00 | 126.95 | 126.95 |
| Office equipment & supplies | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| Postage, courier and freight | 0.00 | 0.00 | 0.00 | 48.83 | 48.83 |
| Products | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| Professional Services | 84.15 | 0.00 | 0.00 | 129.01 | 129.01 |
| Stationary Energy (liquid fuels) | 21.59 | 15.28 | 0.00 | 4.40 | 19.68 |
| Stationary Energy (solid fuels) | 0.10 | 0.09 | 0.00 | 0.00 | 0.09 |
| Transport (Air) | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| Transport (Land and Sea) | 217.20 | 0.00 | 0.00 | 78.07 | 78.07 |
| Waste | 4.67 | 0.00 | 0.00 | 2.56 | 2.56 |
| Water | 0.09 | 0.00 | 0.00 | 0.06 | 0.06 |
| Total pre-event emissions (tCO₂-e) | 489.68 | | | | |
| Total post-event emissions (tCO₂-e) | | 15.36 | 2.49 | 393.35 | 411.06 |
| Difference between pre-event and post-event emissions | | Pre-event total minus post-event total = 78.62 tCO₂-e | | | |

Uplift factors

N/A

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions, which can't be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

| Reason for uplift factor | tCO ₂ -e |
|--|---------------------|
| Total of all uplift factors (tCO ₂ -e) | 0.00 |
| Total emissions footprint to offset (tCO₂-e) <i>(total post-event emissions from summary table + total of all uplift factors)</i> | 411.20 |

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

This is a post-event report. The eligible offsets below are a reconciliation of those from the pre-event report. The table may also show additional eligible offsets purchased and retired for this event based on the post-event emissions calculations.

| Type of offset units | Eligible quantity (used for this reporting period) | Percentage of total |
|--------------------------------------|--|---------------------|
| Verified Emissions Reductions (VERs) | 412 | 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 reporting periods | Eligible quantity banked for future reporting periods | Eligible quantity used for this reporting period | Percentage of total (%) |
|--|------------------------------|---------------|--------------|--|---------|------------------|---|---|---|--|-------------------------|
| Miaoli 49.8MW Wind Farm Project | VER | Gold Standard | 23/02/2024 | GS1-1-TW-GS931-12-2014-4575-36668-37157 | 2014 | | 490 | 0 | 78 | 412 | 100% |
| Stapled to Mount Sandy conservation project | Australian Biodiversity Unit | ABU | 22/02/2024 | 103394 - 103883 | 2020 | 490 | | 0 | 78 | 412 | |
| Total offsets retired this report and used in this report | | | | | | | | | | 412 | |
| Total offsets retired this report and banked for future reports | | | | | | | | | 78 | | |

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) |
| Behind the meter consumption of electricity generated | 0 | 0 |
| Total non-grid electricity | 0 | 0 |
| LGC purchased and retired (kWh) (including PPAs) | 0 | 0 |
| GreenPower | 0 | 0 |
| Climate Active certified - Precinct/Building (voluntary renewables) | 0 | 0 |
| Climate Active certified - Precinct/Building (LRET) | 0 | 0 |
| Climate Active certified - Precinct/Building jurisdictional renewables (LGCs surrendered) | 0 | 0 |
| Climate Active certified - Electricity products (voluntary renewables) | 0 | 0 |
| Climate Active certified - Electricity products (LRET) | 0 | 0 |
| Climate Active certified - Electricity products jurisdictional renewables (LGCs surrendered) | 0 | 0 |
| Jurisdictional renewables (LGCs surrendered) | 0 | 0 |
| Jurisdictional renewables (LRET) (applied to ACT grid electricity) | 0 | 0 |
| Large Scale Renewable Energy Target (applied to grid electricity only) | 688 | 0 |
| Residual electricity | 2,942 | 2,677 |
| Total renewable electricity (grid + non grid) | 688 | 0 |
| Total grid electricity | 3,630 | 2,677 |
| Total electricity (grid + non grid) | 3,630 | 2,677 |
| Percentage of residual electricity consumption under operational control | 100% | |
| Residual electricity consumption under operational control | 2,942 | 2,677 |
| Scope 2 | 2,618 | 2,383 |
| Scope 3 (includes T&D emissions from consumption under operational control) | 323 | 294 |
| 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) | 2.38 |
| Residual scope 3 emissions (t CO2-e) | 0.29 |
| Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e) | 2.38 |
| Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e) | 0.29 |
| Total emissions liability (t CO2-e) | 2.68 |

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 | |
| | | (kWh) | Scope 2 Emissions (kg CO2-e) | Scope 3 Emissions (kg CO2-e) | (kWh) | Scope 3 Emissions (kg CO2-e) |
| Percentage of grid electricity consumption under operational control | 100% | | | | | |
| ACT | 0 | 0 | 0 | 0 | 0 | 0 |
| NSW | 0 | 0 | 0 | 0 | 0 | 0 |
| SA | 0 | 0 | 0 | 0 | 0 | 0 |
| VIC | 3,630 | 3,630 | 2,868 | 254 | 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) | 3,630 | 3,630 | 2,868 | 254 | 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) | 3,630 | | | | | |

| | |
|--|-------------|
| Residual scope 2 emissions (t CO2-e) | 2.87 |
| Residual scope 3 emissions (t CO2-e) | 0.25 |
| Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e) | 2.87 |
| Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e) | 0.25 |
| Total emissions liability (t CO2-e) | 3.12 |

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

N/A



An Australian Government Initiative

