



# **PUBLIC DISCLOSURE STATEMENT**

City of Melbourne

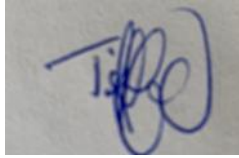
Firelight Festival

1-3 July 2022

POST-EVENT REPORT

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



RESPONSIBLE ENTITY NAME	City of Melbourne
NAME OF EVENT	Firelight Festival
EVENT DATE(S)	1-3 July 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 04/10/2022</p>



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

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Version: March 2022



# 1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	470 tCO <sub>2</sub> -e
OFFSETS BOUGHT	56% ACCUs, 44% VCU
RENEWABLE ELECTRICITY	N/A
TECHNICAL ASSESSMENT (LAREGE EVENT ONLY)	04/10/2022 Josh Prado Pangolin Associates Next technical assessment due: 2025

## Contents

1. Certification summary .....	3
2. Carbon neutral information .....	4
3. Emissions boundary .....	5
4. Emissions reductions.....	8
5. Emissions summary.....	8
6. Carbon offsets .....	10
7. Renewable Energy Certificate (REC) Summary.....	12
Appendix A: Additional Information .....	13
Appendix B: Electricity summary .....	14
Appendix C: Inside emissions boundary .....	16
Appendix D: Outside emissions boundary.....	17

## 2. CARBON NEUTRAL INFORMATION

### Description of certification

Event name: Firelight Festival

Event dates: 1-3 July 2022

Event locations: Docklands, Victoria 3008

Attendees: 95,709

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

### Event description

Melbourne's Firelight Festival is a three 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. Drawing visitation of 95,709 attendees to the Docklands, the event was certified carbon neutral for the first time in 2022.

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

*“The Firelight Festival at Docklands in Melbourne is a celebration of the winter solstice, the longest night of the year. As with our other major events, the City of Melbourne is committed to transparency and accountability for our carbon impact as we reduce it where possible”*

## 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  
Climate Active Carbon  
Neutral Products and  
Services  
Electricity  
Food  
Office equipment & supplies  
Products  
Professional Services  
Stationary Energy (liquid  
fuels)  
Stationary Energy (solid  
fuels)  
Transport (Air)  
Transport (Land and Sea)  
Waste  
Water

**Non-quantified**

N/A

**Optionally included**

N/A

**Outside emission  
boundary**

**Excluded**

N/A

## Data collection – changes since the pre-event report

No changes to data collection method occurred

Emission source	Data collection method	Assumptions / conservative approach
Travel – Attendee Transport	<p>The Firelight Festival conducts a survey of up to 1,050 attendees and gathers:</p> <ol style="list-style-type: none"> <li>1. Mode of transport; and</li> <li>2. Origin of trip (postcode)</li> </ol> <p>This data is 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 Firelight. 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"> <li>• The extrapolation is representative of true travel distance.</li> <li>• 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.</li> </ul>
Ground Transport – Contractors	Data collection table filled in by contactors collecting mode of transport and distance travelled to Firelight Festival.	
Accommodation	Accommodation for – contractors and performers are included. Firelight staff track all performer and contractor numbers and how many nights' accommodation they claim while working on firelight Festival	
Food & Drink	Data collection sheets are given to all food and beverage providers across the Firelight Festival and are contracted to provide this data.	That food and beverage providers transparently report their sales figures.
Electricity	Mains electricity is not metered at various Docklands sites. In all instances where mains electricity is being used, a full list of electrical equipment is collected, and total electricity use is calculated based on the maximum energy draw of that equipment	
Professional Services	All invoices for the various professional services is provided by event management staff.	

## 4. EMISSIONS REDUCTIONS

### Emissions reduction measures

Firelight is early on its carbon neutral journey. In planning for the 2022 event however, measures were taken to ensure carbon emissions were minimised where practical and systems were implemented to baseline and monitor all material emissions sources.

1. Limit the amount of new construction – Firelight has a number of fire-based activations and installations. In 2022 only one new installation was constructed with all other installations being reused from previous years.
2. Waste, including food waste is a significant and visible environmental impact of Firelight. Food organics were collected and sent to a composting facility to minimise emissions from waste in landfill. The data from 2022 will form a baseline for improvement in future years.

## 5. EMISSIONS SUMMARY

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

Emission source name	Pre-event (tCO <sub>2</sub> -e)	Post-event (tCO <sub>2</sub> -e)	% change
Food & Catering	340.4	111.9	-67
Security and personal safety	31.9	27.3	-14%
Technical services	2.2	67.5	2,968%
Medium Car: unknown fuel	18.0	149.5	731%

**Food and Catering** – Pre-event estimates were based on previous years' survey data extrapolations. These were not reflective of actual spend with Firelight food vendors in 2022.

**Security and personal safety** – Pre-event budget over-estimated actual spend

**Technical Services** – Multiple services were grouped together and categorised under 'technical services' in the post event calculations than in pre-event.

**Medium Car: unknown fuel** – More attendees travelled by car and travelled longer distances to Firelight than were predicted in the pre-event inventory.



## Use of Climate Active carbon neutral products and services

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 location-based approach.

Emission category	Pre-event emissions (tCO <sub>2</sub> -e)	Sum of total emissions (tCO <sub>2</sub> -e)
Accommodation and facilities	3.4	2.0
Cleaning and Chemicals	1.6	2.9
Climate Active Carbon Neutral Products and Services	0.0	0.0
Electricity	19.0	1.4
Food	439.2	145.6
Machinery and vehicles	0.8	0
Office equipment & supplies	13.0	3.3
Products	0	0.6
Professional Services	199.8	127.0
Stationary Energy (liquid fuels)	72.4	13.6
Stationary Energy (solid fuels)	0.1	0.1
Transport (Air)	1.2	2.8
Transport (Land and Sea)	26.3	165.5
Waste	84.6	4.8
Water	0	0.1
<b>Total net emissions</b>	<b>861.3</b>	<b>469.7</b>
<b>Difference between pre-event and post-event emissions</b>		<b>-391.6</b>

## Uplift factors

N/A

## 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 <sub>2</sub> -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 (%)
*Savanna Burning Investment Ready Project - Cape York Pilot Aurukun	ACCUs	ANREU	03/06/2020	3,799,427,512 - 3,799,428,511	2019-20	0	1000	561*	177*	262	56%
Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China	VCUs	VERRA	30/03/2022	<a href="#">10901-255317839-255318438-VCS-VCU-785-VER-CN-1-438-26122015-27032016-1</a>	2016	0	600	0	392	208	44%
<b>Total offsets retired this report and used in this report</b>										470	
<b>Total offsets retired this report and banked for future reports</b>										569	

\*The City of Melbourne's offset provider has pre-retired all 1000 ACCUs from this project. A total of 147 units were attributed to Melbourne Knowledge Week 2021. A further 364 units are attributed to Moomba 2022, 50 units to Melbourne Knowledge Week 2022 and 262 units to Firelight Festival 2022. This leaves 177 units which will be attributed to future carbon neutral events.

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Australian Carbon Credit Units (ACCUs)	262	56%
Verified Carbon Units (VCUs)	208	44%

## Co-benefits

### **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

N/A.

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

<b>1. Large-scale Generation certificates (LGCs)*</b>	N/A
<b>2. Other RECs</b>	N/A

\* 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	
N/A										
<i>Total LGCs surrendered this report and used in this report</i>										

# APPENDIX A: ADDITIONAL INFORMATION





## Certificate of Verified Carbon Unit (VCU) Retirement

Verra, in its capacity as administrator of the Verra Registry, does hereby certify that on 30 Mar 2022, 600 Verified Carbon Units (VCUs) were retired on behalf of:


City of Melbourne - Firelight Festival 2022

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

**VCU Serial Number**  
10901-255317839-255318438-VCS-VCU-785-VER-CN-1-438-26122015-27032016-1

**Additional Certifications**  
Social Carbon

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**Australian National Registry of Emissions Units**

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Account Holders

Accounts

Unit Position Summary

Projects

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### 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	ESU Emission ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial Range	Quantity
AU	KACCU	Voluntary ACCU Cancellation			<a href="#">ESP111805</a>					2019-20		3,792,963,615 - 3,792,964,614	1,000
AU	KACCU	Voluntary ACCU Cancellation			<a href="#">EQP100972</a>					2019-20		3,799,427,512 - 3,799,428,511	1,000

**Transaction Status History**

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

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## APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a **location-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 <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 & Precinct LGCs)	0	0	0%
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)	263	0	19%
Residual Electricity	1,150	1,145	0%
<b>Total grid electricity</b>	<b>1,413</b>	<b>1,145</b>	<b>19%</b>
<b>Total electricity consumed (grid + non grid)</b>	<b>1,413</b>	<b>1,145</b>	<b>19%</b>
Electricity renewables	263	0	
Residual Electricity	1,150	1,145	
<b>Exported on-site generated electricity</b>	<b>0</b>	<b>0</b>	
Emissions (kgCO <sub>2</sub> e)		1,145	

<b>Total renewables (grid and non-grid)</b>	<b>18.59%</b>
<b>Mandatory</b>	<b>18.59%</b>
<b>Voluntary</b>	<b>0.00%</b>
<b>Behind the meter</b>	<b>0.00%</b>
<b>Residual Electricity Emission Footprint (tCO<sub>2</sub>-e)</b>	<b>1.14</b>

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

### Location-based approach summary

Location-based approach	Activity Data (kWh)	Scope 2 Emissions (kgCO <sub>2</sub> -e)	Scope 3 Emissions (kgCO <sub>2</sub> -e)
VIC	1,413	1,286	141
<b>Grid electricity (scope 2 and 3)</b>	<b>1,413</b>	<b>1,286</b>	<b>141</b>
VIC	0	0	0
<b>Non-grid electricity (Behind the meter)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total electricity consumed</b>	<b>1,413</b>	<b>1,286</b>	<b>141</b>

<b>Emission Footprint (tCO<sub>2</sub>-e)</b>	<b>1.43</b>
<i>Scope 2 Emissions (tCO<sub>2</sub>-e)</i>	1.29
<i>Scope 3 Emissions (tCO<sub>2</sub>-e)</i>	0.14

### Climate Active carbon neutral electricity summary

Carbon neutral electricity offset by Climate Active product	Activity Data (kWh)	Emissions (kgCO <sub>2</sub> -e)
N/A	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)
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, 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			



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