PUBLIC DISCLOSURE STATEMENT

LOOP ORGANICS PTY LTD

ORGANISATION CERTIFICATION
FY2021–22

Australian Government

Climate Active
Public Disclosure Statement

An Australian Government Initiative

NAME OF CERTIFIED ENTITY	Loop Organics Pty Ltd
REPORTING PERIOD	1 July 2021 – 30 June 2022 Arrears report – Base year
DECLARATION	*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.*
	Lisa Rawlinson Managing Director 1 March 2023

Australian Government
Department of Industry, Science, Energy and Resources

Version March 2022. To be used for FY20/21/CY2021 reporting onwards.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	2,917 tCO_2-e
OFFSETS BOUGHT	100% CERs
RENEWABLE ELECTRICITY	18.59%
TECHNICAL ASSESSMENT	29 September 2022 Damien Leyssard Presync Next technical assessment due: FY 2024-25 report
THIRD PARTY VALIDATION	Type 1 17 February 2023 Mylene Turban Pangolin Associates

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2. CARBON NEUTRAL INFORMATION

Description of certification

This certification is for the Australian business operations of Loop Organics Pty Ltd, (ABN 59 160 028 026) including its related entity Loop Organics Pastoral (ABN 77 634 835 635).

The certification and the base year are financial year 2021-22.

The boundary has been defined based on an operational control approach and covers the business operations of the company which are based in:

- 6/65 Queen Street, Berry, NSW 2535
- 711 and 1290 Greendale Road, Wallacia NSW 2745
- 415 Appin Road, Appin NSW 2560
- 505 Remembrance Drive, Cawdor NSW 2570
- 74 Lemington Road, Ravensworth NSW 2330

Climate Active certification validates Loop Organics passion and purpose, to responsibly return organics to the earth.
Loop Organics business inherently benefits the environment; however, we want to do more. We will continue to push the boundaries and question our own actions to strive to create a carbon negative future for our business.
We are steadfast in our desire and commitment to challenge the organic waste industry's practices and be the leaders of lasting and impactful change.

Organisation description

Loop Organics provides environmental management services including contracting and consulting for the treatment, collection, transportation, processing and reusing of organic by-products (biosolids, green waste, food waste and other organic residuals) and wastewater effluents. Loop Organics processes organics via composting and reuse through direct land application. Products include compost, cattle & silage production, and farm management services.

Loop Organics views waste as an input product starting its lifecycle not as an end of life by product. We create sustainable solutions that responsibly return organics to the earth.

Certified Entity: Loop Organics Pty Ltd

ABN of certified entity: ABN 59 160 028 026

Trading names: Loop Organics Pty Ltd

3. EMISSIONS BOUNDARY

Inside the emissions boundary

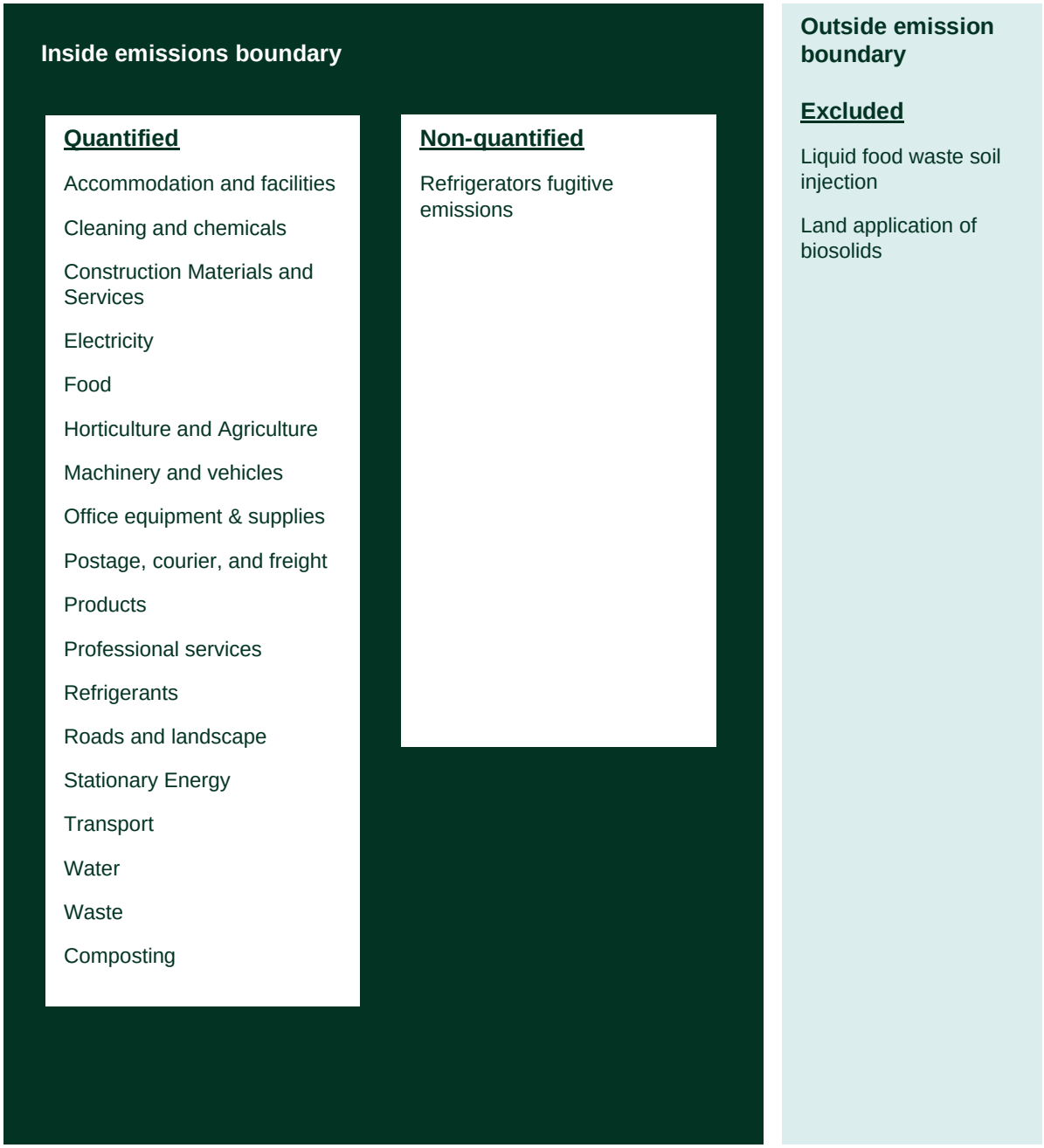
All emission sources listed in the emissions boundary are part of the carbon neutral claim.

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 certified entity, 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 an organisation's or precinct'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.



Data management plan for non-quantified sources

The fugitive emissions from the refrigerants used in the two refrigerators haven't been quantified due to immateriality. There are no non-quantified sources in the emission boundary that require a data management plan.

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Nearly half of Loop Organics' emissions are from the process emissions from composting. These activities generate environmental impacts that Loop Organics are not the cause of, since they are not responsible for the creation of the waste. Nevertheless, these emissions constitute direct emissions for Loop Organics. Without composting by Loop Organics, the treated waste could have ended up in landfills, leading to a significantly larger environmental impact.

Loop Organics commits to reduce its emissions by 50% by 2030, from a 2021/2022 base year. The following emissions reduction actions will be implemented to reduce our carbon footprint:

Fuel:

- Gradually electrify the heavy vehicle fleet by 2026

Electricity:

- Loop Organics already uses Climate Active certified electricity for some of the sites
- GreenPower or carbon neutral for other sites
- With electrification of the fleet, the electricity use will increase and could justify the installation of a solar installation at the permanent sites

Enteric methane:

- Loop is investigating the use of seaweed as a feed additive to reduce methane produced by livestock.

Other:

- Prioritise the purchase of carbon neutral products/services wherever possible.
- Investigate and participate in carbon capture programs from soil improvements/amelioration to offset the large impact of composting. Loop Organics currently incorporates compost back into soil for mining rehabilitation and agricultural improvement.

5. EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

AGL Carbon neutral electricity at 711 Greendale Road.

Organisation emissions summary

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

Row Labels	Sum of Total Emissions (t CO2-e)
Accommodation and facilities	6.58
Cleaning and Chemicals	3.31
Climate Active Carbon Neutral Products and Services	0.00
Construction Materials and Services	3.99
Electricity	3.72
Food	4.55
Horticulture and Agriculture	536.73
Machinery and vehicles	134.28
Office equipment & supplies	7.40
Postage, courier and freight	0.54
Products	0.21
Professional Services	0.05
Refrigerants	0.05
Roads and landscape	0.02
Stationary Energy (gaseous fuels)	0.49
Transport (Air)	11.26
Transport (Land and Sea)	903.79
Waste	18.58
Water	0.27
Waste treatment	1280.58
Grand Total	**2,916.35**

Uplift factors

N/A

6. CARBON OFFSETS

Offsets retirement approach

In arrears		
1.	Total emissions footprint to offset for this report	2,917
2.	Total eligible offsets purchased and retired for this report	2,986
3.	Total eligible offsets banked to use toward next year's report	69

Co-benefits

Jiangsu Dongling Wind Farm Project is located along the Yellow Sea in the Jiangsu Province, China. This project introduces clean energy into the nation's rapidly expanding power grid and displaces electricity which would otherwise be supplied by a local coal-fired power plant. This project created 30 long-term employment opportunities.

Wind power has some of the lowest environmental impacts of any source of electricity generation. Unlike conventional sources, wind power significantly reduces carbon emissions, saves billions of gallons of water a year and cuts pollution that creates smog and causes health problems. These projects also create employment in the emerging renewable energy industry and help to stimulate local business development.

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 (%)**
Jiangsu Dongling Wind Farm Project	CER	ANREU	03/02/2023	1,115,078,622 - 1,115,078,631	2018	0	10	0	0	10	0.34%
Jiangsu Dongling Wind Farm Project	CER	ANREU	03/02/2023	1,114,052,779 - 1,114,053,470	2020	0	692	0	69	623	21.36%
Jiangsu Dongling Wind Farm Project	CER	ANREU	03/02/2023	1,115,078,740 - 1,115,081,023	2018	0	2284	0	0	2,284	78.30%
									Total offsets retired this report and used in this report	2,917	
									Total offsets retired this report and banked for future reports	69	

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Certified Emissions Reductions (CERs)	2917	100%

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)*	N/A
2. Other RECs	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
-	-	-	-	-	-	-	-	-	-
						Total LGCs surrendered this report and used in this report	-	-	-

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 (kgCO2e)	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)	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)	853	0	19%
Residual Electricity	3,734	3,715	0%
Total grid electricity	**4,587**	**3,715**	**19%**
Total Electricity Consumed (grid + non grid)	**4,587**	**3,715**	**19%**
Electricity renewables	853	0	
Residual Electricity	3,734	3,715	
Exported on-site generated electricity	**0**	**0**	
Emissions (kgCO2e)		3,715	

Total renewables (grid and non-grid)	**18.59%**
Mandatory	**18.59%**
Voluntary	**0.00%**
Behind the meter	**0.00%**
Residual Electricity Emission Footprint (TCO2e)	**4**

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 (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	0	0	0
NSW	4,587	3,578	321
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Grid electricity (scope 2 and 3)	**4,587**	**3,578**	**321**
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	**0**	**0**	**0**
Total Electricity Consumed	**4,587**	**3,578**	**321**

Emission Footprint (TCO2e)	**4**
Scope 2 Emissions (TCO2e)	4
Scope 3 Emissions (TCO2e)	0

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
AGL carbon neutral electricity	**7,096**	**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.
3. **Data unavailable** Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
4. **Maintenance** Initial emissions non-quantified but repairs and replacements quantified.

Relevant-non-quantified emission sources	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
Fugitive emissions from refrigerators.	Yes	No	No	No

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to an organisation's or precinct's operations and are outside of its emissions boundary. These emissions are not part of the carbon neutral claim. Emission sources considered for relevance must be included within the certification boundary if they meet two of the five relevance criteria. 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 organisation'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 organisation'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 organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
Liquid food waste soil injection	Yes	No	No	No	No	No
Land application of biosolids	Yes	No	No	No	No	No

Liquid food waste soil injection and land application of biosolids have been excluded as it has been assessed as not relevant according to the relevance test.

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