



PUBLIC DISCLOSURE STATEMENT

FUTURE RECYCLING PTY LTD

**ORGANISATION CERTIFICATION
CY2022**

Australian Government

Climate Active Public Disclosure Statement



[Insert company logo here]



NAME OF CERTIFIED ENTITY	Future Recycling Pty Ltd
REPORTING PERIOD	Calendar year - 1 January 2022 – 31 December 2022 Arrears report
DECLARATION	<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>  Karly Giannakos Operations Manager 29 05 2024



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

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Version March 2023.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	4,052 tCO ₂ -e
CARBON OFFSETS USED	100% VCU's
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: Pangolin Associates Pty Ltd
TECHNICAL ASSESSMENT	02 July 2021 for CY2020 report Completed by: Pangolin Associates Next technical assessment due: CY2023 report

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2. CERTIFICATION INFORMATION

Description of certification

This inventory has been prepared for the calendar year from 1 January 2022 to 31 December 2022 and covers the Australian business operations of Future Recycling Pty Ltd, ABN: 83 129 407 790.

The operational boundary has been defined based on an operational control test, in accordance with the principles of the National Greenhouse and Energy Reporting Act 2007. This includes the following locations and facilities:

- 194 Ordish Road, South Dandenong 3175 VIC
- 30-32 Exchange Drive, Pakenham 3810 VIC
- 57 Star Crescent, Hallam 3164 VIC
- 121-135 Old- Dookie Road, Shepparton 3630 VIC

The methods used for collating data, performing calculations and presenting the carbon account are in accordance with the following standards:

- Climate Active Standards
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- National Greenhouse and Energy Reporting (Measurement) Determination 2008

Where possible, the calculation methodologies and emission factors used in this inventory are derived from the National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008.

Organisation description

Future Recycling offers complete waste management tailored to the specific needs of commercial, industrial and residential clients. Their aim is to extract as much recyclable material as possible from waste streams to avoid landfill.

Future Recycling is 100% owned by the Landsman Family Trust which also includes the following entities:

- Future Resources
- Future Materials Group
- Cardinia Waste & Recyclers
- Kooweerup Bin Hire
- Pak Bin Hire
- Pakenham Skips
- Future Materials Recovery
- National Metal Recyclers

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 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
ICT services and equipment
Office equipment & supplies
Postage, courier and freight
Products
Professional Services
Refrigerants
Roads and landscaping
Stationary Energy (liquid
fuels)
Transport (Air)
Transport (Land and Sea)
Waste
Water

Non-quantified

Food & Catering

Outside emission boundary

Excluded

N/A

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Since 2017, Future Recycling has increased the total amount of material being processed by the organisation; from 34,705.30t of materials processed in CY2017 to 64,637.55t of materials processed in CY2022 (an 86% increase since CY2017 base year). As a growing business, Future Recycling's overarching emission reduction commit is to reduce its emission intensity by 15% by 2030 on the CY2017 base year.

To achieve the overarching intensity target, Future Recycling commits to reducing all emissions in its value chain by 15% by 2030, based on CY2019 as a year of large growth (an increase 41.0% of t of material processed year on year). This takes into consideration continual planned business expansions.

Furthermore, Future Recycling aims to reduce scope 1 and 2 emissions by 10% by 2030, compared to a 2017 baseline, with a focus on controlled electricity and controlled stationary fuels.

All sub-targets, objectives, and actions contributing to our emissions reduction goals are bound by clear deadlines, ensuring accountability and progress tracking.

In cases where emissions may rise during a reporting period, we will provide detailed reasons, such as business growth, increased travel, or transportation, including any previously excluded emissions sources.

Our emissions reduction strategy incorporates specific, measurable actions to track progress effectively.

Future Recycling will provide hyperlinks to public statements and reports demonstrating the viability and provability of our commitment to reducing emissions.

Future Recycling will disaggregate emissions reduction actions by scope and year, offering a transparent breakdown of our efforts.

Some emission reduction actions that Future Recycling will consider for future reductions include:

- Reducing transport fuel emissions by 15% compared to CY2017 base year emissions by CY2026.
- Running the main machinery on onsite solar or GreenPower by CY2025, reducing electricity emission associated with the use of this equipment compared to base year CY2017.
- Being 100% paperless by the end of CY2024, reducing emissions associated with purchased paper by 100% on CY2017 base year emissions for paper.

Emissions reduction actions

Future Recycling has seen a decrease in the emission intensity (tCO₂-e/t of material processed) since the CY2017. So far, Future Recycling has seen a decrease of 20% in CY2023 compared to the CY2017 base year.

Future Recycling have invested in energy-efficient technologies and equipment to optimise energy consumption across our facilities, including ongoing negotiations with its electricity provider on how to effectively install onsite solar and supporting storage batteries at the facilities.

Future Recycling have conducting regular energy audits to identify areas for improvement and implementing energy-saving measures accordingly.

Future Recycling continue to work closely with our suppliers to assess and improve the sustainability of our supply chain, including actively seeking zero-to-low emission fuel suppliers.

Furthermore, Future Recycling continue to implement initiatives to reduce transportation emissions and minimise the environmental impact of our products throughout their life cycle.

Future Recycling continue to conduct awareness campaigns and training programs to educate employees on the importance of reducing their carbon footprint.

Future Recycling encourage sustainable practices in the workplace, such as carpooling, telecommuting options, and responsible resource use.

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e	tCO ₂ -e/t of material processed
Base Year/Year 1:	CY2017	2,727.20	0.08
Year 2:	CY2018	2,579.92	0.07
Year 3:	CY2019	2,407.91	0.05
Year 4:	CY2020	2,353.65	0.04
Year 5:	CY2021	2,044.54	0.03
Year 6:	CY2022	4,052	0.06

Significant changes in emissions

During the CY2022 reporting period, our emissions experienced a 98% increase, primarily attributable to significant business expansion and the construction of a new site.

The expansion endeavours undertaken during this period, including the establishment of the new site, contributed substantially to the rise in emissions. This increase aligns with our strategic growth initiatives, reflecting heightened business activities and an expanded operational footprint.

Recognising the importance of transparency, we are committed to providing a detailed account of the factors contributing to the emission surge, with the prominent contributors being the expansion-related activities and the development of the new facility. Our ongoing commitment to sustainability includes diligent efforts to mitigate the environmental impact of our operations, and we remain dedicated to implementing measures that align with emissions reduction objectives in the coming reporting periods.

Emission source	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Reason for change
Commercial and industrial waste	31.2	53.7	See above.

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

Certified brand	Product/Service used
Pangolin Associates	Consulting
Opal Australian Paper	Paper

Emissions summary

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

Emission category	Scope 1 emissions (t CO ₂ -e)	Scope 2 emissions (t CO ₂ -e)	Scope 3 emissions (t CO ₂ -e)	Total emissions (t CO ₂ -e)
Accommodation	0.00	0.00	0.00	0.00
Cleaning and Chemicals	0.00	0.00	11.14	11.14
Climate Active Carbon Neutral Products and Services	0.00	0.00	0.00	0.00
Construction Materials and Services	0.00	0.00	740.99	740.99
Electricity	0.00	182.45	15.03	197.47
ICT services and equipment	0.00	0.00	34.02	34.02
Office equipment & supplies	0.00	0.00	2.73	2.73
Postage, courier and freight	0.00	0.00	39.06	39.06
Products	0.00	0.00	1.62	1.62
Professional Services	0.00	0.00	25.77	25.77
Refrigerants	1.73	0.00	0.00	1.73
Roads and landscape	0.00	0.00	12.43	12.43
Stationary Energy (liquid fuels)	427.27	0.00	105.36	532.63
Transport (Air)	0.00	0.00	0.00	0.00
Transport (Land and Sea)	1333.74	0.00	416.49	1750.23
Waste	0.00	0.00	698.51	698.51
Water	0.00	0.00	3.15	3.15
Working from home	0.00	0.00	0.14	0.14
Total	1762.74	182.45	2106.44	4051.64

Uplift factors

N/A.

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 4,052 t CO₂-e. The total number of eligible offsets used in this report is 4,052. Of the total eligible offsets used, 0 were previously banked and 4,052 were newly purchased and retired. 0 are remaining and have been banked for future use.

Co-benefits

The project activity involves the installation of Solar PV project. The total installed capacity of the project is 120 MW of Solar PV plant located at different states in India. The project is promoted by SolarArise India Projects Pvt. Ltd.

Co-benefits:

- **Social well-being:** the project would help in generating employment opportunities during the construction and operation phases. The project activity will lead to development in infrastructure in the region like development of roads and also may promote business with improved power generation.
- **Economic well-being:** the project is a clean technology investment in the region, which would not have been taken place in the absence of the VCS benefits the project activity will also help to reduce the demand supply gap in the state. The project activity will generate power using zero emissions Solar PV based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.
- **Technological well-being:** the successful operation of project activity would lead to promotion of Solar based power generation and would encourage other entrepreneurs to participate in similar projects

Eligible offsets retirement summary

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Carbon Units (VCUs)	4,052	100%

Offsets retired for Climate Active 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 (%)	
Bundled Solar Power Project by Solararise India Projects PVT. LTD.	VCU	Verra	17/01/2024	10730-245045981-245046749-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0	2018	-	769	0	0	769	19%	
				10730-245082438-245084886-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0	2018	-	2,449	0	0	2,449	60%	
				10730-245076831-245077664-VCS-VCU-997-VER-IN-1-1762-26042018-31122018-0	2018	-	834	0	0	834	21%	
Total eligible offsets retired and used for this report										4,052		
Total eligible offsets retired this report and banked for use in future reports									0			

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

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 **location-based approach**.

Market Based Approach Summary			
Market Based Approach	Activity Data (kWh)	Emissions (kg CO ₂ -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 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)	40,010	0	19%
Residual Electricity	174,636	166,777	0%
Total renewable electricity (grid + non grid)	40,010	0	19%
Total grid electricity	214,646	166,777	19%
Total electricity (grid + non grid)	214,646	166,777	19%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	174,636	166,777	
Scope 2	154,224	147,284	
Scope 3 (includes T&D emissions from consumption under operational control)	20,412	19,493	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	.

Total renewables (grid and non-grid)	18.64%
Mandatory	18.64%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO₂-e)	147.28
Residual scope 3 emissions (t CO₂-e)	19.49
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	147.28
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	19.49
Total emissions liability (t CO₂-e)	166.78

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 CO ₂ -e)	Scope 3 Emissions (kg CO ₂ -e)	(kWh)	Scope 3 Emissions (kg CO ₂ -e)
VIC	214,646	214,646	182,449	15,025	0	0
Grid electricity (scope 2 and 3)	214,646	214,646	182,449	15,025	0	0
VIC	0	0	0	0		
Non-grid electricity (behind the meter)	0	0	0	0		
Total electricity (grid + non grid)	214,646					

Residual scope 2 emissions (t CO₂-e)	182.45
Residual scope 3 emissions (t CO₂-e)	15.03
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	182.45
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO₂-e)	15.03
Total emissions liability (t CO₂-e)	197.47

Operations in Climate Active buildings and precincts

Operations in Climate Active buildings and precincts	Electricity consumed in Climate Active certified building/precinct (kWh)	Emissions (kg CO ₂ -e)
N/A	0	0
<i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their building or precinct certification. This electricity consumption is also included in the market based and location based summary tables. Any electricity that has been sourced as renewable electricity by the building/precinct under the market based method is outlined as such in the market based summary table.</i>		

Climate Active carbon neutral electricity products

Climate Active carbon neutral product used	Electricity claimed from Climate Active electricity products (kWh)	Emissions (kg CO ₂ -e)
N/A	0	0
<i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their electricity product certification. This electricity consumption is also included in the market based and location based summary tables. Any electricity that has been sourced as renewable electricity by the electricity product under the market based method is outlined as such in the market based summary table.</i>		

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. 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	Justification reason
Food & Catering	Immaterial as estimated to be <1% of total emissions.

Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to this organisation'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.



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