

PUBLIC DISCLOSURE STATEMENT

FUTURE RECYCLING PTY LTD

ORGANISATION CERTIFICATION CY2020

Australian Government

Climate Active Public Disclosure Statement







NAME OF CERTIFIED ENTITY: Future Recycling Pty Ltd.

REPORTING PERIOD: 1 January 2020 – 31 December 2020

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.



Australian Government

Department of Industry, Science, Energy and Resources

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1. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the calendar year from 1 January 2020 to 31 December 2020 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.

The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF6) and nitrogen trifluoride (NF3). These have been expressed as carbon dioxide equivalents (CO2-e) using relative global warming potentials (GWPs).

Climate

"We feel it's our responsibility to preserve the environment for future generations"

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



2. EMISSION BOUNDARY

Diagram of the certification boundary

<u>Quantified</u>	Non-quantified	N/A
Advertising	Food & Catering	1071
Business Flights		
Cleaning Services		
Contractor Fuels		
Diesel Oil		
Domestic &		
International Hotels		
Electricity		
Employee Commute		
Freight		
IT Equipment		
LPG		
Paper		
Post 2004 Diesel		
Post 2004 Gasoline		
Postage		
Printing & Stationery		
Refrigerants		
Staff Clothing		
Telecommunications		
Waste- Landfill		
Water		
Working from Home		



Non-quantified sources

Food & Catering have been excluded as they are estimated to be immaterial.

Data management plan

N/A

Excluded sources (outside of certification boundary)

N/A

"As an organisation operating in the waste industry we want to lead by example and be the change we want to see in the world."



3. EMISSIONS SUMMARY

Emissions reduction strategy

Future Recycling aims to implement and achieve the following to reduce their emission.

- Lower our reliance on paper
- Improve our rote efficiencies and reduce our fuel consumption
- Move to green energy (electricity)
- Continue to divert waste from landfill

Future Recycling will also continue to investigate other opportunities to reduce their emissions and will develop and implement a strategy within the next two years.

Emissions over time

Calendar year 2020 has seen Future Recycling emissions impacted by COVID-19 which reduced movement and the use of equipment running at full capacity. This includes energy intensive equipment, such as the baler, which was running at 50% capacity for much of the year.

Table 1

Emissions since				
base year				
	Base Year:	Year 1:	Year 2:	Year 3:
	2017	2018	2019	2020
Total tCO ₂ -e	2,727.20	2,579.92	2,407.91	2,353.65

Emissions reduction actions

All forklifts which were once operated on diesel fuel and were since changed to operating on LPG fuel. In the previous year fuel cards were used by employee and thus double accounting occurred and included commuting. Moreover, diesel transport fuels have increased due to arrangement changes with contractors and freight movement.



Emissions summary (inventory)

Table 2		
Emission source category	tonne	s CO₂-e
Accommodation and Facilities		1.74
Air Transport (km)		28.54
Cleaning and Chemicals		4.22
Electricity		194.06
ICT Services and Equipment		51.71
Land and Sea Transport (fuel)		1,500.88
Land and Sea Transport (km)		111.06
Office Equipment & Supplies		7.48
Postage, Courier and Freight		113.95
Products		2.46
Professional Services		12.13
Refrigerants		1.20
Stationary Energy		239.67
Waste		73.33
Water		2.12
Working From Home		9.10
	Total Net Emissions	2,353.65

Uplift factors

Table 3			
Reason for uplift facto	r	tonnes CO ₂ -e	
N/A			
	Total footprint to offset (uplift factors + net emissions)		2,353.65

Carbon neutral products

This assessment and Climate Active submission was prepared with the assistance of <u>Pangolin Associates</u> and these services are also carbon neutral.



Electricity summary

Electricity was calculated using a location-based approach.

Market-based approach summary

Market-based approach	Activity Data (kWh)	Emissions (kgCO ₂ -e)	Renewable %
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%
Jurisdictional renewables	0	0	0%
Residual Electricity	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	34,378	0	19%
Total grid electricity	143,656	154,890	0%
Total Electricity Consumed (grid + non grid)	178,034	154,890	19%
Electricity renewables	178,034	154,890	19%
Residual Electricity	34,378	0	
Exported on-site generated electricity	143,656	154,890	
Emission Footprint (kgCO ₂ -e)	0	0	

Emission Footprint (tCO ₂ -e)	155
LRET renewables	19.31%
Voluntary Renewable Electricity	0.00%
Total renewables	19.31%

Location-based approach summary Table 5

Location-based approach	Activity Data (kWh)	Emissions (kgCO ₂₋ e)
VIC	178,034	194,057
Grid electricity (scope 2 and 3)	178,034	194,057
Total Electricity Consumed	178,034	194,057

Emission Footprint (tCO ₂ -e)	194



4. CARBON OFFSETS

Offsets strategy

Tabl	e 6	
Off	set purchasing strategy:	
In a	arrears	
1.	Total offsets previously forward purchased and banked for this report	171
2.	Total emissions liability to offset for this report	2,354
3.	Net offset balance for this reporting period	2,183
4.	Total offsets to be forward purchased to offset the next reporting period	0
5.	Total offsets required for this report	2,354

Co-benefits

150 MW grid connected Wind Power based electricity generation project in Gujarat, India.

The main purpose of the project is to generate renewable electricity using wind power and feed the generated output to the local grid in Gujarat, contributing to climate change mitigation efforts. In addition to the generation of renewable energy-based electricity, the project has also been conceived to enhance the propagation of commercialisation of wind power generation in the region and to contribute to the sustainable development of the region, socially, environmentally and economically. The proposed project activity leads to alleviation of poverty by establishing direct and indirect employment benefits accruing out of infrastructure development of wind farms, installation work, operation and management of wind farm, providing daily needs, etc. The infrastructure in and around the project area will also improve due to project activity. This includes development of road network and improvement of electricity quality, frequency and availability as the electricity is fed into a deficit grid. The generated electricity is fed into the Western regional Grid through local grid, thereby improving the grid frequency and availability of electricity to the local consumers (villagers & sub-urban habitants) which will provide new opportunities for industries and economic activities to be setup in the area thereby resulting in greater local employment, ultimately leading to overall development.

Wind Grouped project by Hero Future Energies Private Limited, India

Hero Future Energies prioritise the needs of local communities across their project sites. Together with the Raman Kant Munjal Foundation they work on projects to preserve natural resources as well as provide access to basic amenities such as access to clean drinking water, sanitation, school infrastructure,



education and overall development of underprivileged children. Hero Future Energies has created an asset base of ~ 1GW of operational and under construction utility scale wind projects. In their journey from an Independent Power Producer in renewable energy to becoming a cleantech entity, they have invested extensively on the state-of-the-art central monitoring system which aces our performance management capabilities. Their strong sense of design, pool of talented engineering professionals and adherence to HSE norms contribute majorly to this success.



Offsets summary

Proof of cancellation of offset units

Table 7

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	Eligible Quantity (tCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
150 MW grid connected Wind Power based electricity generation project in Gujarat, India.	VCUs	VERA	29 Jun 2021	9085-66632451- 66634633-VCS- VCU-1491-VER- IN-1-292- 01012017- 31122017-0	2017	2,183	0	0	2,183	93%
Wind Grouped project by Hero Future Energies Private Limited, India	VCUs	APX	03 Sep 2018	6008- 275272856- 275276147- VCU- 029- APXIN- 1- 1582- 29032016- 31122016-0	2018	3,292	3,121	0	171	7%
Total offsets retired this report and used in this report2,354										
Total offsets retired this report and banked for future reports0										

Type of offset units	Quantity (used for this reporting period claim)	Percentage of Total
Verified Carbon Units (VCUs)	2,354	100%



5. USE OF TRADE MARK

Table 8

Description where trademark used	Logo type
Website	Certified organisation
Social Media	Certified organisation

6. ADDITIONAL INFORMATION

N/A.



APPENDIX 1

Excluded emissions

To be deemed relevant an emission must meet two of the five relevance criteria. Excluded emissions are detailed below against each of the five criteria.

Table 9					
Relevance test					
Excluded emission sources	The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions	The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.	Key stakeholders deem the emissions from a particular source are relevant.	The responsible entity has the potential to influence the reduction of emissions from a particular source.	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.
N/A					



APPENDIX 2

Non-quantified emissions for organisations

Table 10				
Non-quantification	n test			
Relevant-non- quantified emission sources	Immaterial <1% for individual items and no more than 5% collectively	Quantification is not cost effective relative to the size of the emission but uplift applied.	Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.	Initial emissions non-quantified but repairs and replacements quantified
Food & Catering	Y	Ν	Ν	Ν



APPENDIX 3

Proof of Retirements

01/01/2013 31/12/2013	6288- 29427181 29427368 VCU-034- APX-IN-1-	71818- 73685-						1							
	01012013 31122013	N-1- 2013- 2013-0	1,868	vcu	133	grid- connected wind power project by MMTC in Karnataka	Energy industries (renewable/non- renewable sources)		Karnataka	India (IN)	Pangolin Associates Pty Ltd	NCOS Programme	Pangolin	Retired on behalf of Future Recycling's NCOS Emissions for CY2019	24/06/201
29/03/2016 31/12/2016	6008- 2752728 27527614 V/2016 V/20-029- APX-IN-1- 1582- 29032016 31122016	72856- 76147-)29- N-1- 2016- 2016-0	3,292	vcu	1582	Wind Grouped project by Hero Future Energies Private Limited (EKIESL- VCS-Aug- 16-03)	Energy industries (renewable/non- renewable sources)		Madhya Pradesh, Karnataka, Rajasthan	India (IN)	Pangolin Associates Pty Ltd	NCOS Programme	Pangolin	Retired on behalf of Future Recycling's NCOS Emissions for CY2018	03/09/201

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