



PUBLIC DISCLOSURE STATEMENT

ROUNDWOOD SOLUTIONS PTY LTD

**PRODUCT CERTIFICATION
CY2021 (TRUE-UP)**

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Roundwood Solutions Pty Ltd
REPORTING PERIOD	Calendar year 1 January 2021 – 31 December 2021 (True-up)
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>Name of Signatory: Stephen Telford Position of Signatory: Owner 21/02/2024</p>



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

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



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	1,221 tCO ₂ -e
THE OFFSETS BOUGHT	100% VERs
RENEWABLE ELECTRICITY	N/A
TECHNICAL ASSESSMENT	17 August 2021 Michael Hallam EnergyLink Services Pty Ltd Next technical assessment due: CY 2024

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2. CARBON NEUTRAL INFORMATION

Description of certification

Roundwood Solutions are a South Australian timber product manufacturer who produce a treated timber post, which is the subject of this carbon neutral product certification. This treated timber product is predominately used for agricultural fencing and is treated using a carbon-based wood treatment that allows for a full log treatment, prevents rotting, is fire resistant and does not have chemical leaching.

Product description

Roundwood Solutions is a plantation timber processing and product manufacturer in South Australia. Roundwood Solutions produce both treated and untreated timber products, with all treated products being the subject of this carbon neutral product certification. All treated products sold by Roundwood Solutions are manufactured at a dedicated facility in Tantanoola, South Australia.

A cradle to gate approach has been taken as Roundwood Solutions cannot control what actions customers take with treated timber products at the end of product life. The certification covers the operation and management of plantations growing timber, harvesting timber, log transportation, all processing of timber including barking, peeling and cutting. The timber is subsequently steamed and chemically treated at the Tantanoola site, before being transported to customers.

The certification is full coverage, and the functional unit of this certification is 1 m³ treated timber produced by Roundwood Solutions, which also represents the saleable unit for this product.

At Roundwood Solutions our core value is to provide long term sustainable, environmental solutions for Australia. Climate Active allows us to transparently demonstrate our commitment to our core values.

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 'attributable processes' that become the product, make the product and carry the product through its life cycle. These have been quantified in the carbon inventory.

Non-quantified emissions have been assessed as attributable 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

Non-attributable emissions have been assessed as not attributable to a product or service. They can be **optionally included** in the emissions boundary and therefore have been offset, or they can be listed as outside of the emissions boundary (and are therefore not part of the carbon neutral claim). Further detail is available at Appendix D.

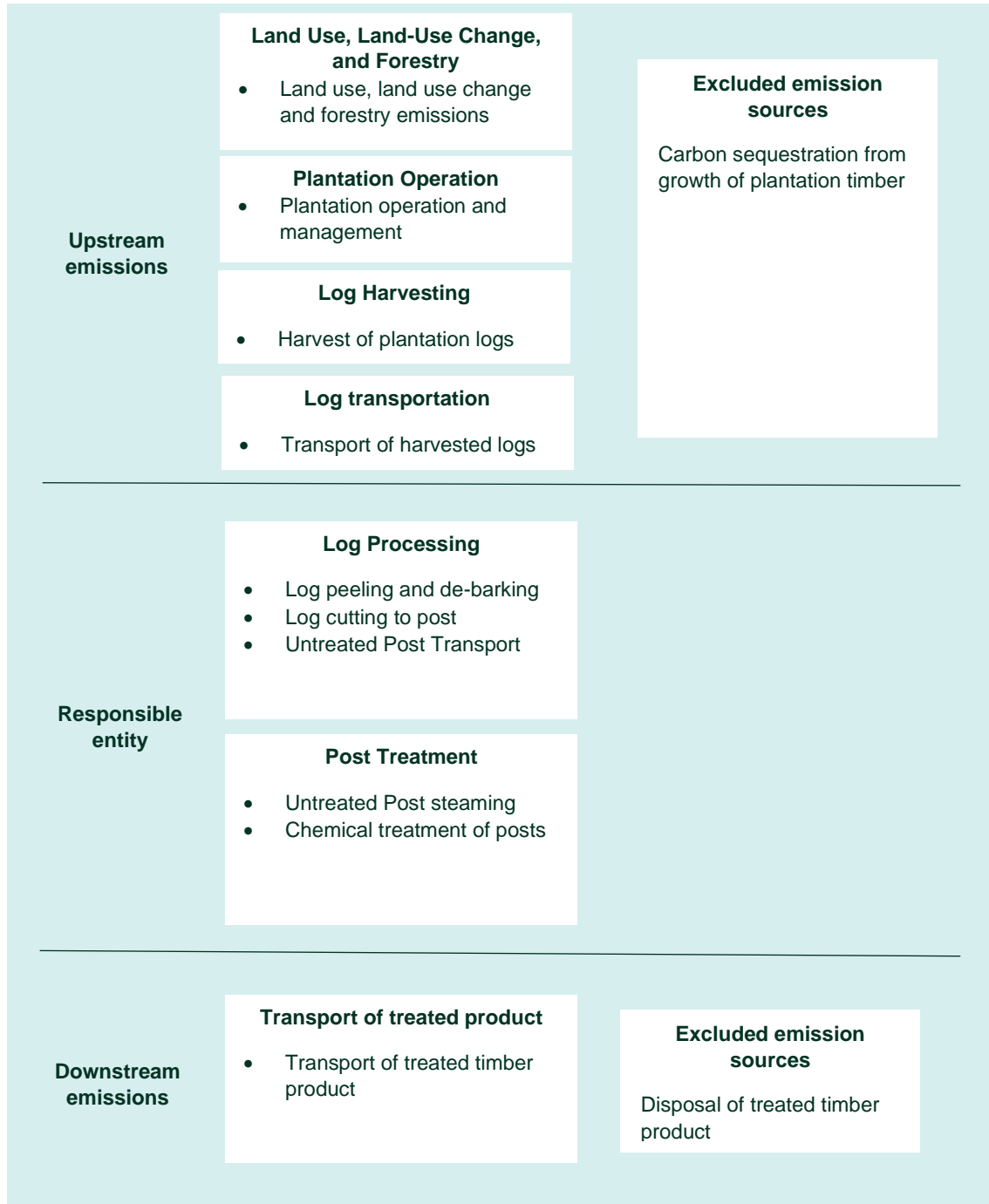
Inside emissions boundary		Outside emission boundary
<p><u>Quantified</u></p> <p><i>Electricity</i></p> <p><i>Freight</i></p> <p><i>Stationary Diesel</i></p> <p><i>Gasoline</i></p> <p><i>Land and sea transport</i></p> <p><i>Plantation management emissions</i></p> <p><i>Staff commuting</i></p> <p><i>Biomass combustion</i></p> <p><i>Emissions associated with chemicals used in treatment.</i></p> <p><i>Computer equipment</i></p> <p><i>Office equipment and supplies</i></p> <p><i>Land use, land use change and forestry emissions*</i></p> <p><i>Advertising**</i></p>	<p><u>Non-quantified</u></p> <p><i>Carbon sequestration from growth of plantation timber (excluded)</i></p> <p><i>End of life product disposal emissions (excluded)</i></p>	<p><u>Non-attributable</u></p>
	<p><u>Optionally included</u></p> <p><i>N/A</i></p>	

*It is noted that all timber used for product manufacturing has been sourced from plantation forestry operations that have undertaken at least 2 harvests of plantation timber. As such, and in accordance with the GHG Protocol, land use, land use change and forestry emissions are equal to zero.

**Advertising has been added to the emissions boundary as part of the true-up exercise. At the time of developing the forecasted emissions this emissions category was not identified.

Product process diagram

The following diagram is cradle to gate diagram for this certification.



Data management plan for non-quantified sources

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

Excluded sources (within certification boundary)

There are two emission (or sequestration) sources that have been excluded from this certification. These sources are:

- Carbon sequestration from growth of plantation timber.
- End-of-life product disposal emissions.

The sequestration and emissions are excluded from the lifecycle of this product, noting that plantation timber is used as the source of timber for this product. As such, biogenic CO₂ released during end of life is sequestered during growth of the plantation, with these activities forming part of the carbon loop.

This has been verified by a qualified technical professional Michael Hallam, Registered Consultant registered consultant and Kyle O'Farrell, independent validator.

Non attributable sources (outside certification boundary)

There are non-attributable emissions sources.

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Roundwood Solutions is committed to reducing emissions in our carbon neutral certified product range by 10% per 1 m3 treated timber produced by 2030 from a CY 2021 base year. We will do this by continuously improving our sustainable procurement and manufacturing practices.

Roundwood Solutions has proactively undertaken a series of initiatives aimed at reducing emissions, either through implementation or planned execution. These efforts encompass various strategies, including transitioning to energy-efficient LED lighting, upgrading diesel-powered mobile equipment, and the installation and utilisation of a biomass gasification system. This system plays an important role in providing process heat, particularly steam, essential for timber treatment processes.

Replacing the previous diesel-powered steaming system, the biomass gasification system is likely to play a crucial role in Roundwood Solutions' overarching emissions reduction framework, by resulting in significant reductions in diesel usage and the corresponding emissions (approximately 40% reductions in Scope 1 Stationary diesel usage). It is noted that this complex system will require a lengthy commissioning process together with reengineering to install, ensure performance, output and reliability.

Furthermore, the biomass gasification process generates a valuable byproduct: biochar. This biochar not only contributes to carbon sequestration with enduring permanence but also effectively utilizes waste timber residues from the processing of sustainably harvested logs. Thus, Roundwood Solutions not only minimizes emissions but also actively engages in sustainable practices, demonstrating a holistic approach towards environmental stewardship and operational efficiency.

Roundwood Solutions is exploring how to reduce movements between its' facilities (as a means to reduce freight emissions) and exploring how to incorporate biodiesel and electric vehicles as additional initiatives to reduce transport emissions. Roundwood Solutions is dedicated to exploring the option of purchasing products and services that are carbon neutral within the next 5 years, thus reducing its carbon footprint. Through this proactive approach, Roundwood Solutions demonstrates its commitment to sustainability and sets a positive example for others in the business community.

5. EMISSIONS SUMMARY

Significant changes in emissions

Emission source name	Projected (tCO ₂ -e)	Actual (tCO ₂ -e)	Detailed reason for change
Plantation Operations	108.82	77.17	Increased plantation operations due to increased production of final products
Postage Courier and freight Road Truck (rigid truck)	178.06	141.99	Increased freight usage due to increased production of final products
Postage Courier and freight Road Freight (articulated truck)	213.01	154.01	Increased freight usage due to increased production of final products

Use of Climate Active carbon neutral products and services

Carbon neutral products have not been used.

Product emissions summary

Stage	Projected t CO ₂ -e	Actual tCO ₂ -e
Electricity	16.55	11.20
ICT services and equipment	0.04	0.02
Office equipment & supplies	0.0	0.15
Postage, courier and freight	520.94	574.09
Professional Services	0.00	0.33
Stationary Energy (liquid fuels)	772.34	500.26
Stationary Energy (solid fuels)	0.30	0.06
Transport (Land and Sea)	4.1	12.76
Bespoke - Plantation Operations	77.17	108.82
Bespoke - Land Use, Land Use Change and Forestry	0.00	0.00
Bespoke - Creosote	15.67	12.44
Total	1407.21	1220.13
Difference between projected and Actual	-187.07	

Emissions intensity per functional unit	0.1784
Number of functional units to be offset	6,838.88
Total emissions to be offset	1220.13

6. CARBON OFFSETS

Offsets retirement approach

Forward purchasing	
1. Total emissions footprint to offset for this report	1,221
2. Total eligible offsets purchased and retired for this report and future reports	1,408
3. Total eligible offsets retired and used for this report	1,221
4. Total eligible offsets forward purchased and banked to use toward next year's report	187

Co-benefits

• Landfill Gas Extraction and Electricity Generation Project - Istanbul, Turkey

The ISTAC Landfill Gas Extraction and Electricity Generation Project is located near Odayeri Village in the Eyüpsultan District in European Side of Istanbul and Kömürçüoda Village in Şile District in the Anatolian Side of Istanbul. The project feeds renewable electricity into the Turkish grid, and is able to supply more than 210,000 households with clean and sustainable energy.

The project will help Turkey to simulate and commercialise the use of grid-connected renewable energy technologies, helping to diversify the energy supply chain, reduce greenhouse gas emissions and air pollutants, preserve underground water resources and foster technology transfer, empowering local people with new knowledge and creating job opportunities.

Key Benefits:

- o Diversifies energy supply chain via the addition of renewable energy
- o Supplies clean, renewable energy for 210,000 homes
- o Reduces greenhouse gas emissions and air pollutants by displacing energy from fossil fuel plants
- o Preserves underground water resources
- o Knowledge transfer and job opportunities for the local community

United Nation Sustainability Development Goals:



Eligible offsets retirement summary

Proof of cancellation of offset units

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 (%)
Landfill Gas Extraction and Electricity Generation Project - Istanbul, Turkey	VER	GSF Registry	12 August 2021	GS1-1-TR-GS707-21-2016-21021-132035-133442	2016		1,408	0	187	1,221	100 %
Total offsets retired this report and used in this report										1,221	
Total offsets retired this report and banked for future reports										187	
Type of offset units		Quantity (used for this reporting period claim)					Percentage of total				
Verified Emissions Reductions (VERs)		1,221					100%				

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

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 (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)	5,888	0	19%
Residual Electricity	25,872	25,726	0%
Total grid electricity	31,760	25,726	19%
Total Electricity Consumed (grid + non grid)	31,760	25,726	19%
Electricity renewables	5,888	0	
Residual Electricity	25,872	25,726	
Exported on-site generated electricity	0	0	
Emissions (kgCO2e)		25,726	
Total renewables (grid and non-grid)	18.54%		
Mandatory	18.54%		
Voluntary	0.00%		
Behind the meter	0.00%		
Residual Electricity Emission Footprint (TCO2e)	26		
<i>Figures may not sum due to rounding. Renewable percentage can be above 100%</i>			

Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	0	0	0
NSW	0	0	0
SA	30,258	9,077	2,118
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)	30,258	9,077	2,118
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	30,258	9,077	2,118

Emission Footprint (TCO2e)	11
<i>Scope 2 Emissions (TCO2e)</i>	9
<i>Scope 3 Emissions (TCO2e)</i>	2

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
-	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 attributable, 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
-	-	-	-	-

Excluded emission sources

Attributable emissions sources can be excluded from the carbon inventory, but still considered as part of the emissions boundary if they meet **all three of the below criteria**. An uplift factor may not necessarily be applied.

1. A data gap exists because primary or secondary data cannot be collected (**no actual data**).
2. Extrapolated and proxy data cannot be determined to fill the data gap (**no projected data**).
3. An estimation determines the emissions from the process to be **immaterial**.

	No actual data	No projected data	Immaterial
Carbon sequestration from growth of plantation timber	Yes	Yes	Yes
End of life product disposal emissions	Yes	Yes	Yes

APPENDIX D: OUTSIDE EMISSION BOUNDARY

Non-attributable emissions have been assessed as not attributable to a product or service (do not carry, make or become the product/service) and are therefore not part of the carbon neutral claim. To be deemed attributable, an emission must meet two of the five relevance criteria. Emissions which only meet one condition of the relevance test can be assessed as non-attributable and therefore are outside the carbon neutral claim. Non-attributable emissions are detailed below.

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>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.</i>

N/A



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