

Preliminary Assessment Public Summary

This *Preliminary Assessment Public Summary*, prepared by Puro.earth, contains general information about the CO₂ Removal Supplier and its project, as evaluated at the time of the Preliminary Assessment (PA). It also includes a *Non-Technical Project Summary* and a *Criteria Assessment Report* detailing: i) key criteria assessed and their associated outcomes, ii) Puro's comments, and iii) evidence provided by the CO₂ Removal Supplier.

The *PA Public Summary* serves as a transparent communication tool, enabling potential investors, buyers, and stakeholders to quickly understand the supplier's carbon removal capabilities and assessment status.

The supplier has also received an extended *Preliminary Assessment Report*. This confidential document offers in-depth insights, including specific remarks and actionable recommendations to guide the supplier's progression through the certification journey.

1. Supplier and Project Information

CO ₂ Removal Supplier	
Company name	Radial Timber Australia PTY LTD
Company address	147 Herald Street, Cheltenham, VIC 3192
Business ID	007 284380
KYC status	Completed for Project Developer
CO ₂ Removal Project	
Methodology	Biochar, Edition 2022, Version 3
Production Facility name	Yarram (managed by Accend AS, acting as project developer)
Facility registration date	23 Apr 2025
Production Facility ID	833360
Production Facility location	7 Livingston St, 3971 Yarram
Host Country of removal	Australia
Has this facility been registered in another registry?	☒ No ☐ Yes, additional information:
Preliminary Assessment Details	
Date of assessment	17 October 2025
Status of assessment	Final
Conclusion of assessment	Passed

2. Non-Technical Project Summary*

Radial Timber Australia (RTA), a family-owned timber company based in Yarram, Victoria, specializes in sustainable cultivation, milling, and distributing durable Victorian hardwood products such as decking and weatherboards. Committed to environmental responsibility, RTA sources regrowth or plantation-grown timber and employs a circular economy model to minimize waste and maximize resource recovery.

In 2024, RTA enhanced its sustainability efforts by investing in Earth Systems' CPP500 pyrolysis technology to convert wood waste from their operations—sawdust, shavings, peelings, and scrap—into biochar. This biochar, produced at an estimated 500 tons annually, is used as a soil amendment within RTA's plantations, improving soil health and reducing waste. The facility began operations in July 2024 and is scaling up to full capacity, with plans to add two more units by 2026.

The project's financial sustainability hinges on carbon credit sales under the Puro.Earth standard, as the regional biochar market develops. Initially, biochar is applied within RTA's plantations, supporting a closed-loop approach that reduces emissions, enhances soil quality, and promotes renewable energy. By integrating sustainable timber production with biochar-based carbon sequestration, RTA is pioneering climate-positive forestry, advancing ecological resilience and economic viability through responsible land management.

*Filled by the Supplier. Between 150-200 words

The definition of CO₂ Removal Supplier and Production Facility can be found in the Puro Standard.

3. Criteria Assessment Report

Reminder: Sub-criteria either concern the Production Facility's technical eligibility or its maturity and quality. There are three types of sub-criteria:

- **Required to be passed:** These correspond to the core criteria related to the eligibility of a Production Facility. Suppliers must meet these criteria, as they may otherwise be impossible or costly to change at a later stage of the certification journey.
- **Required to be assessed:** These criteria are important for evaluation but do not necessarily determine pass or fail at this stage, as it is understood that the suppliers may be at different stages of development.
- **Not required:** These criteria are optional at this stage. They may provide additional information about the project maturity but are not essential for passing the preliminary assessment.

For a facility to be considered eligible for listing, all the sub-criteria that condition eligibility must be met (i.e. passed or assessed). If one of those sub-criteria is not met, the facility in its current state of development is not eligible for listing.

Disclaimer: The assessment has been made against the criteria in the current version of the methodology. Puro.earth relied on the CO₂ Removal Supplier for the correctness of the provided information during the time of the preliminary assessment and will make no representation as to the accuracy or completeness of this report. The CO₂ Removal Supplier must undergo a third-party audit before issuing CO₂ Removal Credits (CORCs). **Passing the preliminary assessment does not guarantee a success in the third-party audit.**

Important Notice Regarding Biochar Methodology Update: This Preliminary Assessment has been conducted against Edition 2022, but to some extent, reflected some important changes in the updated Biochar Methodology – Edition 2025.

Table 1. Criteria and sub-criteria assessment by Puro based on the documents submitted.

ID	Criteria / Sub-criteria	Outcome	Comment	Evidence reviewed	Requirement for listing	Purpose of criteria
c1	Planned biomass feedstock(s) is(are) eligible	Passed	----	---	Passed if required sub-criteria are met	
c1.1	Biomass feedstocks are identified and compatible with EBC positive list	Passed	The feedstocks are sawdust, wood scraps, woodchips, and residue from the supplier's timber business (from their own hardwood plantation). These feedstocks (F-01, F-02, F-03, F-04) are listed on the EBC positive list.	Biomass Types and Origins List - Radial Timbers, PDD_ Radial Timber Australia_ July 2025.pdf	Required to be passed	Technical eligibility
c1.2	Biomass feedstock sustainability and chain-of-custody can be demonstrated, if applicable	Passed	The plantations, sawmills, and timber business are all owned by the CO ₂ Removal Supplier. The chain of custody is clear and appropriate. The CO ₂ Removal Supplier has identified pathways to certify the sustainability of the their biomass sources, including FSC certification and certification by PEFC-	Biomass Types and Origins List - Radial Timbers, PDD_ Radial Timber Australia_ July 2025.pdf, 170828 Plantation Development Application ASK_Radial Timbers	Required to be passed	Technical eligibility

			endorsed Responsible Wood. Evidence of certification must be provided for the Facility Audit.	(1).pdf, Environmental and Social Safeguards Questionnaire_Radial Timbers_Final.docx		
c1.3	Bioenergy leakage related to feedstock use is minimal	Assessed	Sawdust, woodchip, and wood scrap feedstocks have not been used for energy production. The risk of bioenergy leakage is considered minimal.	Biomass Types and Origins List - Radial Timbers, PDD_Radial Timber Australia_July 2025.pdf	Required to be assessed	Technical eligibility
c1.4	Land use change related to feedstock use is minimal	Assessed	This is a long-running hardwood plantation and timber operation (since 2008). No change in land use is required or expected.	Biomass Types and Origins List - Radial Timbers, PDD_Radial Timber Australia_July 2025.pdf, 170828 Plantation Development Application ASK_Radial Timbers (1).pdf	Required to be assessed	Technical eligibility
c1.5	Sourcing of biomass is secured (e.g. letters of intent, contracts)	Assessed	The feedstocks are sourced from hardwood plantations and timber operations owned by the CO ₂ Removal Supplier.	Radial Timbers, PDD_Radial Timber Australia_July 2025.pdf, 170828 Plantation Development Application ASK_Radial Timbers (1).pdf	Not required	Maturity & Quality
c2	Planned biochar production equipment is technically sound	Passed			Passed if required sub-criteria are met	
c2.1	Several options of reactor design have been identified	Passed	The reactor chosen (CharMaker CPP500) is an appropriate selection. The reactor is on the Puro vetted and approved list of biochar reactors under Edition 2022.	PDD_Radial Timber Australia_July 2025.pdf, Earth Systems Technology (2).pdf, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx	Required to be passed	Technical eligibility
c2.2	Reactor design has been decided, contracted, or purchased	Assessed	The reactor, Earth Systems CharMaker CPP500 was purchased and installed in 2024.	PDD_Radial Timber Australia_July 2025.pdf,, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx	Required to be assessed	Maturity & Quality
c2.3	Reactor design is vetted, regarding production of biochar with H/C ratio below 0.7	Passed	The temperature (500-600 °C) and residence time (30-40 min) are appropriate for biochar with H/C _{org} ratio below 0.7. The reactor has been approved and vetted by Puro under Edition 2022. The laboratory test report provided from May 2025 shows an H/C _{org} ratio of 0.45.	PDD_Radial Timber Australia_July 2025.pdf,, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx, Lab Results May '25.pdf	Required to be passed	Technical eligibility
c2.4	Reactor design is vetted, regarding risk for CH ₄ emissions	Passed	The reactor is on the Puro vetted technology list under Edition 2022. CH ₄ is listed as one of the emissions being monitored. Gas Stack and Stack Emissions reports were provided. An email exchange with the manufacturer was provided indicating that methane emissions were tested and not detectable.	PDD_Radial Timber Australia_July 2025.pdf,, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx, Environmental Evaluation Report_Final.docx,	Required to be passed	Technical eligibility

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				Email exchange on the gas emissions and energy report_Radial Timber (1)		
c2.5	Reactor design is vetted, regarding air pollutant emissions in line with local regulation	Passed	The reactor is on the Puro vetted technology list under Edition 2022. The reactor is compliant with EPA and local CFA (Country Fire Authority) regulations. Emissions and gas stack evaluations were performed and the reports, demonstrating compliance, were provided.	PDD_Radial Timber Australia_ July 2025.pdf, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx, Gas stackReport_Revo (2).pdf, Stack Emissions Report_Earth Systems Yarram Charmaker Stack - Jan 2025 (3) (2).pdf, Puro Environmental and Social Safeguards Questionnaire_Radial Timbers_Final.docx	Required to be passed	Technical eligibility
c2.6	Facility design is vetted, regarding disposal of waste streams, including any liquid streams (wastewater, oil, tars)	Passed	The reactor requires limited gas and oil use, which are fully combusted. There are no significant liquid and waste disposal streams.	PDD_Radial Timber Australia_ July 2025.pdf, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx, Environmental Evaluation Report_Final.docx, 1559 1.pdf	Required to be passed	Technical eligibility
c2.7	Facility is co-producing bioenergy (e.g. heat, power) for internal use	Assessed	Thermal energy from the combustion of pyrolysis gas is used to sustain pyrolysis. A heat exchanger is to be installed in 2025 and will be used to power the facility.	PDD_Radial Timber Australia_ July 2025.pdf, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx,	Required to be assessed	Maturity & Quality
c2.8	Facility is co-producing bioenergy (e.g. heat, power, fuel) for external use	Assessed	No plans for producing energy for external use are indicated.	PDD_Radial Timber Australia_ July 2025.pdf	Required to be assessed	Maturity & Quality
c3	Biochar planned end-use(s) is(are) eligible	Passed			<i>Passed if required sub-criteria are met</i>	
c3.1	Biochar end-uses are eligible	Passed	The biochar will be primarily used on-site applied to soil to enhance tree plantations. Broader agricultural uses are being explored. These are eligible uses.	PDD_Radial Timber Australia_ July 2025.pdf	Required to be passed	Technical eligibility
c3.2	Plans of biochar end-uses are tangible	Assessed	The primary intended uses listed are uses internal to the plantations. Plans for external agricultural collaboration are briefly noted. Sales of biochar are listed as revenue sources, which indicates external sales are planned. The product developer indicates that a stable biochar market does not yet exist in their area. Biochar may be marketed at a reduced rate to foster demand.	PDD_Radial Timber Australia_ July 2025.pdf, Heartwood Radial Timbers Biochar and forestry research v3 27032025 - redacted (2), GFH Biochar and forestry research_This doc was submitted to govt body outlining trials and use of biochar in Radial plantation	Required to be assessed	Maturity & Quality

c3.3	Biochar environmental quality thresholds are known for the identified end-uses	Assessed	The expected benefits from the internal end-uses, as a soil additive on the hardwood plantations, are indicated. However, no specific environmental quality thresholds are specified. It will need to be demonstrated that biochar environmental quality meets local thresholds, or those set by the EBC/WBC, during the Facility and Output Audits.	PDD_ Radial Timber Australia_ July 2025.pdf, Environmental Evaluation Report_Final.docx, Heartwood RadialTimbers Biochar and forestry research v3 27032025 - redacted (2), GFH Biochar and forestry research _This doc was submitted to govt body outlining trials and use of biochar in Radial plantation	Required to be assessed	Maturity & Quality
c4	Additionality is demonstrated	Passed			<i>Passed if required sub-criteria are met</i>	
c4.1	Carbon storage additionality to baseline	Passed	The sawdust, woodchips, and other feedstocks would otherwise be used for poultry bedding or left on the forestry floor to naturally decompose. These uses would not result in durable carbon storage.	Puro Baseline Additionality Questionnaire - Radial Timber_completed_signed...pdf	Required to be passed	Technical eligibility
c4.2	Financial additionality of facility	Passed	The financial documents provided include CAPEX and OPEX costs and projections. They demonstrate the financial investment in the project and the role of CORC revenue, required to achieve a positive IRR. This is especially important given the nascent state of the local biochar market.	Puro Baseline Additionality Questionnaire - Radial Timber_completed_signed...pdf, Financial additionality - Radial Timber Aus (1) (2) (1)	Required to be passed	Technical eligibility
c4.3	Regulatory additionality	Passed	The CO ₂ Removal Supplier has confirmed that the biochar production is not required in Australia or the State of Victoria.	Puro Baseline Additionality Questionnaire - Radial Timber_completed_signed...pdf	Required to be passed	Technical eligibility
c4.4	Production equipment is newly built (i.e. not an existing facility or a retrofit of existing facility)	Assessed	This is a newly built facility. The pyrolysis technology was installed onsite in May 2024 with operations and project commissioning in July 2024	PDD_ Radial Timber Australia_ July 2025.pdf, Biochar production equipment questionnaire_Radial Timbers_Final (1).xlsx,	Required to be assessed	Maturity & Quality
c5	Facility has monitoring, reporting, and LCA capabilities or tangible plans	Passed			<i>Passed if required sub-criteria are met</i>	
c5.1	Protocol for biomass and biochar record keeping is prepared	Assessed	The CO ₂ Removal Supplier has provided sampling and monitoring protocols for biochar, moisture sampling, and LCA.	PDD_ Radial Timber Australia_ July 2025.pdf, Completed Biochar sampling protocol_ Radial Timber Aus.docx, Moisture Content monitoring protocol Radial Timbers (1).docx, LCA Calculation_Radial Timber_v1.xlsx	Required to be assessed	Maturity & Quality

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c5.2	<i>Protocol for dry mass determination of biochar is prepared</i>	Assessed	Only limited information was provided on the primary means of determining the total mass of biochar that is being produced. Clear monitoring and reporting protocols for biochar dry mass must be provided for the Facility Audit.	PDD_Radial Timber Australia_ July 2025.pdf, Completed Biochar sampling protocol_ Radial Timber Aus.docx, Moisture Content monitoring protocol Radial Timbers (1).docx	Required to be assessed	Maturity & Quality
c5.3	<i>Protocol for biochar sampling and laboratory analysis is prepared (permanence and environmental quality)</i>	Assessed	Biochar sampling and moisture content monitoring protocols have been provided. The protocol describes the acceptable moisture ranges for biomass feedstock, sampling frequency and measurement methods, equipment calibration needs, and record keeping policies.	PDD_Radial Timber Australia_ July 2025.pdf, Completed Biochar sampling protocol_ Radial Timber Aus.docx, Moisture Content monitoring protocol Radial Timbers (1).docx	Required to be assessed	Maturity & Quality
c5.4	<i>Monitoring and reporting plan of facility emissions is prepared</i>	Assessed	Facility and stack emissions will be regularly monitored and reported. The plan and format for that reporting is not yet available.	Puro Environmental and Social Safeguards Questionnaire_Radial Timbers_Final.docx, Environmental Evaluation Report_Final.docx, Gas stackReport_Revo (2).pdf	Required to be assessed	Maturity & Quality
c5.5	<i>An LCA model specific to the facility's operation is prepared</i>	Assessed	An LCA model has been provided based on existing operating data. The LCA model uses emission factors that are expected to cover full supply chain emissions related to the product and includes CH ₂ and N ₂ O.	PDD_Radial Timber Australia_ July 2025.pdf, LCA Calculation_Radial Timber_v1.xlsx	Not required	Maturity & Quality
c6	Facility has likely co-benefits and positive SDG impacts	Passed			<i>Passed if required sub-criteria are met</i>	
c6.1	<i>Facility-specific co-benefits have been identified</i>	Assessed	Co-benefits specific to the facility and project in the areas of clean energy, opportunity, innovation, climate action, and other SDGs are outlined in the PDD.	PDD_Radial Timber Australia_ July 2025.pdf	Required to be assessed	Maturity & Quality
c6.2	<i>Facility-specific SDG targets or indicators have been identified</i>	Assessed	The PDD outlines the high-level SDG. It does not describe the co-benefits at the specific SDG-target level and the CO ₂ Removal Supplier is currently not expected to pursue certification of positive impacts as SDG Descriptors or Attributes.	PDD_Radial Timber Australia_ July 2025.pdf	Required to be assessed	Maturity & Quality
c7	Facility team has access to relevant knowledge and skills	Passed			<i>Passed if required sub-criteria are met</i>	
c7.1	<i>Relating to biomass sourcing, handling, processing</i>	Assessed	The CO ₂ Removal Supplier has experience running tree plantations and timber operations and has demonstrated experience in biomass sourcing and processing.	PDD_Radial Timber Australia_ July 2025.pdf	Not required	Maturity & Quality
c7.2	<i>Relating to thermochemical processes</i>	Assessed	The CO ₂ Removal Supplier has been operating the pyrolysis equipment since July 2024 and is expected to have developed expertise in operating the equipment.	PDD_Radial Timber Australia_ July 2025.pdf, Mass energy balance sheet- current config and future	Not required	Maturity & Quality

				config (1).pdf, LCA Calculation_Radial Timber_v1.xlsx, Completed Biochar sampling protocol_Radial Timber Aus.docx,		
c7.3	Relating to biochar use	Assessed	The CO ₂ Removal Supplier appears to be relatively new to biochar production. They have proposed several research and evaluation projects that will be useful in developing the team's internal understanding of biochar characteristics, deployment models, and agricultural benefits.	PDD_Radial Timber Australia_July 2025.pdf, Heartwood Radial Timbers Biochar and forestry research v3 27032025 - redacted (2), GFH Biochar and forestry research_This doc was submitted to govt body outlining trials and use of biochar in Radial plantation, Biochar Trial Layout - Draft 1 (2).xlsx	Not required	Maturity & Quality
c7.4	Relating to monitoring and carbon accounting	Assessed	The CO ₂ Removal Supplier has partnered with an experienced Project Developer. The detailed LCA, monitoring, and sampling protocols all indicate that the team has appropriate levels of understanding and experience with carbon accounting.	PDD_Radial Timber Australia_July 2025.pdf, Mass energy balance sheet- current config and future config (1).pdf, LCA Calculation_Radial Timber_v1.xlsx, Completed Biochar sampling protocol_Radial Timber Aus.docx,	Not required	Maturity & Quality
c8	Environmental and social safeguards	Passed			<i>Passed if required sub-criteria are met</i>	
c8.1	Stakeholder consultations have been planned or conducted	Assessed	Stakeholders have been identified, and the project developer has conducted a variety of formal and informal engagements during 2024 and 2025. This project is being conducted in collaboration with a local "Future of Yarram" community initiative. Stakeholders and local community members have the facility's contact information and can contact the facility freely.	Puro Stakeholder Engagement Report_Final (1).docx	Required to be assessed	Maturity & Quality
c8.2	Regulation applicable to facility has been identified	Assessed	The CO ₂ Removal Supplier has identified and demonstrated compliance with the applicable employment, health and safety, and environmental regulations.	PDD_Radial Timber Australia_July 2025.pdf, Puro Environmental and Social Safeguards Questionnaire_Radial Timbers_Final.docx	Required to be assessed	Maturity & Quality
c8.3	Procedures to acquire relevant permits have been identified, started, or completed	Assessed	The CO ₂ Removal Supplier has identified relevant EPA regulation for Energy to waste, but fall under the capacity limit, thus no permit needed.	1559_1.pdr and "The facility does not require EPA permit"	Required to be assessed	Maturity & Quality