East-West Pilbara Rubber Recycling

A. Non-Technical Project Overview

The East-West Pilbara Rubber Recycling (EWPRR) project will recycle large mining tyres from the Pilbara region. The facility will focus on tyres, known as “off-the-road” (OTR) tyres, can weigh several tonnes each and are extremely difficult to dispose of, but will not be solely dedicated to processing these tyres. At the moment, most end-of-life OTR tyres are stockpiled or buried in the Pilbara, creating both environmental and safety challenges.

Our new facility in Port Hedland will have the capacity to process around 24,000 tonnes of mining tyres every year. Using proven technology, we will downsize and recycle the tyres into a product called Tyre-Derived Polymer (TDP). TDP can be reused in new tyres, conveyor belts, and other industrial product, keeping waste rubber in use rather than discarded. The project will also recover and recycle steel from the tyres.

The project’s objectives are to:

- Divert waste tyres from landfill and stockpiles.
- Reduce greenhouse gas emissions by substituting recycled for virgin materials.
- Create local jobs and training opportunities in green industry.
- Contribute to Australia’s national waste recovery targets.

The project will be implemented in stages beginning 2026, with operations expected to continue for 20 years.

B. Economic, Social and Environmental Impacts

Positive impacts

Environment: Keeps thousands of OTR mining tyres out of landfill and stockpiles, reducing fire risk, pest breeding, and soil/water contamination.

Climate: Cuts greenhouse gas emissions by replacing virgin rubber and steel production with recycled material.

Economy: Will create over 30 local jobs and new training opportunities in recycling and green technology.

Community: Safer communities by reducing the health risks of tyre fires and abandoned tyres.

Indigenous engagement: The project aims to include Indigenous participation through jobs and business opportunities.

Local jobs and training: The facility will create new roles in Port Hedland, with opportunities for local residents to build skills in operations, maintenance, and logistics.

Circular economy leadership: Helps Australia move closer to its national target of recovering 80% of all waste by 2030. At present, less than 15% of mining tyres are recycled.

Risks and Proposed Mitigation Measures

Risk	Proposed Mitigation
Increased truck traffic & road safety	Use designated haul routes, complete traffic management study to assess impact and design strategy, maintain vehicles to reduce dust/emissions, share traffic management updates with the community.
Noise, dust, and air emissions	Enclosed processing systems, air filters and dust suppression, compliance with WA noise standards.
Greenhouse gas emissions from electricity use	Apply energy efficiency measures, investigate renewable energy sourcing, and regularly monitor/report energy use.
Water use and potential local stress	Minimise use through recycling systems and monitor consumption to stay within approved limits.
Feedstock contamination (dirt, rock, fibre, oil residues)	Pre-sort and clean tyres, dispose of contaminants safely through licensed waste facilities.
Construction phase impacts	Use dust suppression as appropriate, restrict noisy activities to daytime hours, manage heavy vehicle access, and notify the community in advance.
Occupational health & safety for staff	Comprehensive OH&S plan, personal protective equipment (PPE), regular training, and compliance with workplace safety laws.
Community & Indigenous concerns	Maintain open consultation, provide Indigenous employment and supplier opportunities
Market demand and business continuity	Diversify TDP product applications, establish offtake agreements, and explore export opportunities to SE Asia.
Extreme weather / cyclone risk	Build to cyclone engineering standards, prepare emergency response plans, ensure assets, and secure storage for tyres and products.

C. Likely Contributions to the UN Sustainable Development Goals (SDGs)

SDG 12 – Responsible Consumption & Production: Recycling 24,000 tonnes of waste tyres each year into new materials.

SDG 9 – Industry, Innovation & Infrastructure: Introducing innovative recycling technology to replace virgin rubber and steel, building sustainable industrial capacity in the Pilbara.

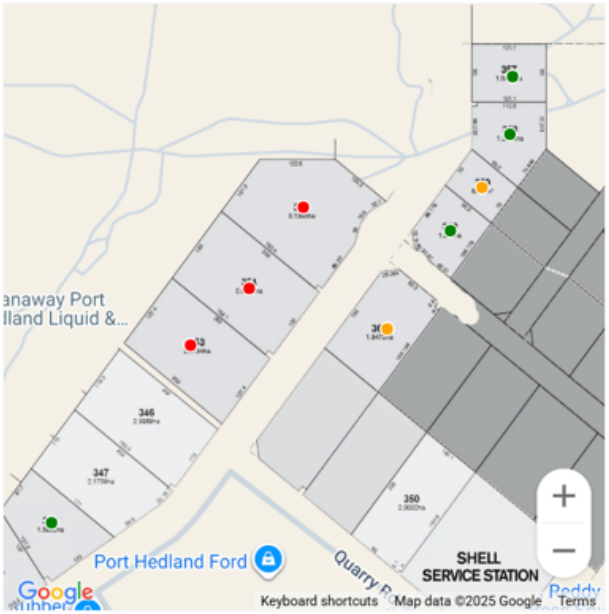
SDG 13 – Climate Action: Reducing about 56,700 tonnes of CO_2 emissions each year by avoiding landfill and replacing energy-intensive virgin material production.

SDG 8 – Decent Work & Economic Growth: Creating long-term employment and skills development in a new green industry.

SDG 15 – Life on Land: Preventing environmental harm from tyre stockpiles that can damage soil and water quality.

D. Other Relevant Information (Design, Implementation & Operation)

- Timeline: Construction begins 2026, operations from 2027, project life ≥20 years, with a 15-year crediting period under climate standards.
- Technology: Tyres are shredded and cleaned, then processed via supercritical CO_2 devulcanisation to produce TDP; steel is recovered separately.
- Environmental Controls: Enclosed systems with dust and emissions capture; water/energy use monitored; safe disposal for contaminants.
- Community Benefits: ~30 long-term jobs, training pathways, Indigenous employment opportunities, transparent monitoring and reporting.



Project Location: Lot 346, Hematite Drive, Hedland Junction, Port Hedland WA 6721

E. Preliminary Agenda for Consultation Event

1. Welcome and introductions
2. Project overview and objectives
    - Environmental, social, and economic impacts
    - Risks and proposed mitigation measures

3. Open Q&A session
4. Grievance and feedback mechanisms

F. Contact Details

Project Manager: Tyler Sando
Email: tyler@ewprr.com

Mailing Address:
East-West Pilbara Rubber Recycling
Unit 6, Market City Commercial Centre
280 Bannister Road
Canning Vale WA 6155

G. Means & Methods for Feedback Grievance Mechanism

We want to hear from the community. Your views, ideas, and concerns are important in shaping this project. You can share your feedback in several ways:

1. Attend the Consultation Session: Join us in person at the community information session to learn more about the project, ask questions, and provide comments directly. All interested parties are welcome to attend, with particular efforts made to include women, Indigenous peoples, and marginalised groups.

Consultation Meetings

- Physical Meeting (Port Hedland)
  Date: Wednesday, 1 October 2025
  Time: 2:00 – 4:00 pm (AWST)
  Venue: Nyamal Aboriginal Corporation, 7 Wedge Street, Port Hedland WA 6721

- Online Session (for those unable to attend in person)
  Date: Friday, 3 October 2025
  Time: 9:00 – 10:00 am (AWST)
  Platform: Microsoft Teams (link provided upon RSVP)

2. Submit Feedback Online (Anonymous Option)

   Link:
   https://docs.google.com/forms/d/e/1FAIpQLScaDxsS80vo-TtQq68NrXupTJC_xVL9i-sNtjby5UrwInSZFA/viewform?usp=header

   Scan QR:

3. Send your comments or questions to: info@ewprr.com

   Or contact:
   Tyler Sando, Project Manager
   Email: tyler@ewprr.com

4. You can also mail your feedback to:
   East-West Pilbara Rubber Recycling
   Unit 6, Market City Commercial Centre
   280 Bannister Road
   Canning Vale WA 6155

All feedback will be recorded and considered as part of the project planning.