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ABN 90 118 710 508

Pearl Global An Environmental & Ethnical Investment

Bell Potter Environmental Conference
November 2022

Pearl Global Limited (Pearl)

is an Australian company applying unique, next-generation technology to cleanly convert waste tyres into valuable products. Pearl Global's technology represents a significant advancement on other tyre recycling processes.



Solving the waste tyre problem

Our patented thermal desorption technology converts end-of-life tyres into valuable products, such as fuel, carbon and steel.

We are a complete environmental and circular solution beyond anything offered by other types of tyre recycling process. Offering an environmental and ethical Investment.

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Pearl Global

ASX listed company

Patented world first technology.

Has invested in excess of \$30m to date developing patented process and is currently commercialising the Stapylton facility south of Brisbane.

Currently employs over 50 people.

Has diverted more than 2 million tyres to date from landfill and from being sent overseas to be burnt

Is a genuine solution to the global waste tyre issue.

Can contribute significantly to Australia's decarbonisation targets.

The scale of end-of-life tyre waste in Australia

Approx. 58m tyres annually³

86%

OF AUSTRALIAN
WASTE TYRES
ARE EXPORTED TO BE
BURNT, DUMPED OR
BURIED¹

93%

OF AUSTRALIAN
WASTE MINING TYRES
ARE
BURIED ON SITE¹

2,000

YEARS FOR
TYRES TO
DECOMPOSE²

Tyre dumping
Courtesy: RMIT

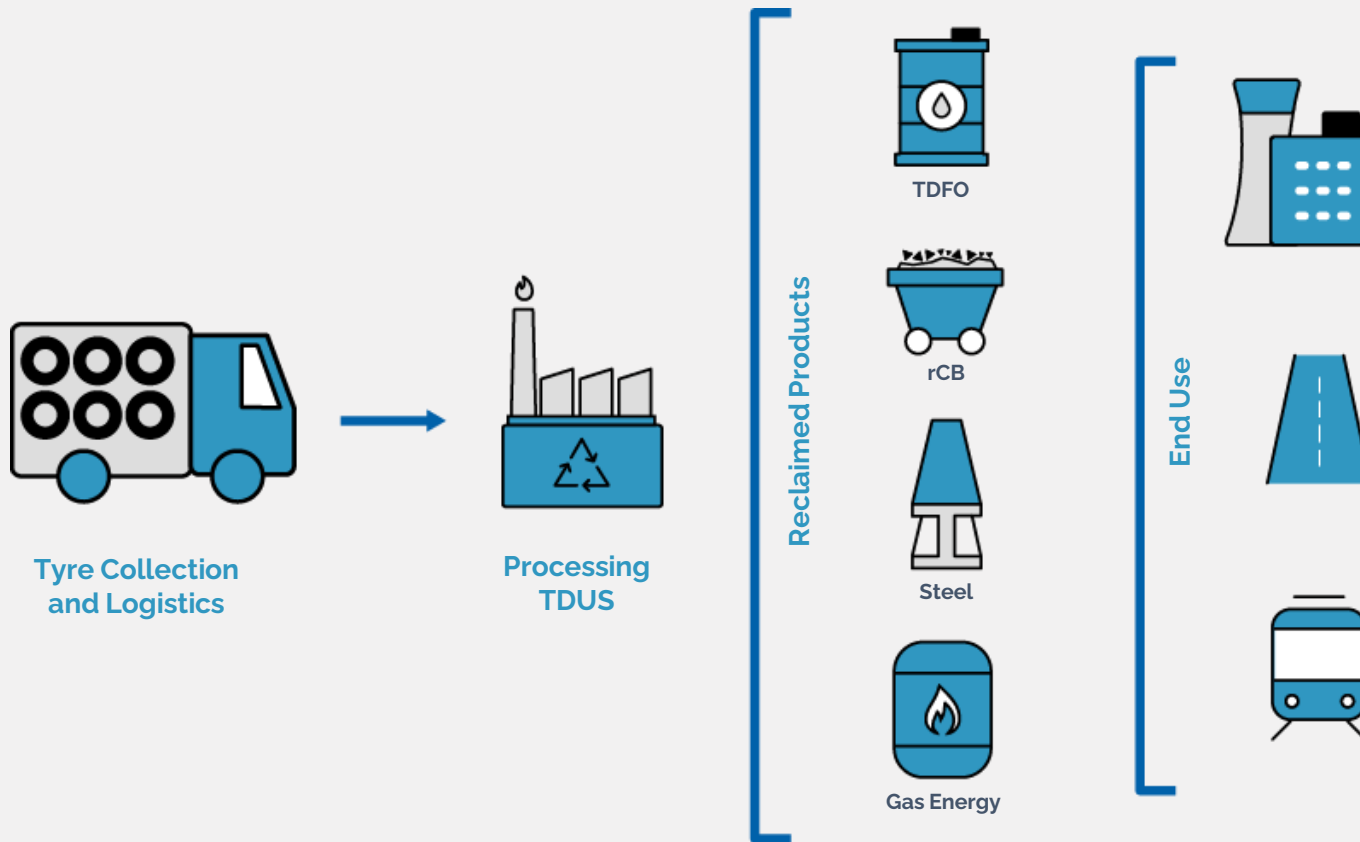
1 Source: National Waste Policy Action Plan 2019, Federal Government

2 Source: South Carolina Department of Natural Resources - <https://www.dnr.sc.gov/cleanwater/2015/05/26/2015-05-26-01-how-long-it-takes-50-common-items-decompose>

3 Source: Tyre Stewardship Australia Used Tyres Supply Chain and Fate Analysis June 2022

Our patented process

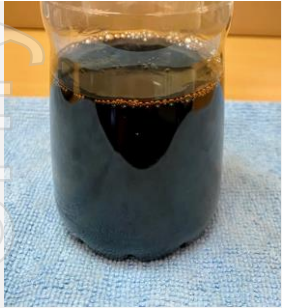
Thermal desorption units at Pearl Global's Stapylton site.



- Global patents: thermal energy process deployed through a dynamic management system.
- High quality products, combined with low emissions, are unique to the Pearl Global process.
- Scalable infrastructure with modular design.
- Strong environmental practices with low emissions.

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Our products provide a world first solution



Tyre Derived Fuel Oil (TDFO)

- Replacement for diesel in Asphalt burner applications.
- Energy source in asphalt burner systems to heat asphalt mixes.
- Used over the last two years, proven to increase asphalt plant efficiency and reduce overall costs.
- 14kg CO₂-e saving per tonne of asphalt²



Recovered Carbon Black (rCB)

- Natural binding properties of 75% pure carbon base enhances binding function in asphalt.
- Asphalt using Pearl's rCB creates a safer, longer lasting, superior road surface, as well as substantial environmental gains.¹
- 8.2kg CO₂-e per tonne of asphalt²



Recovered High Tensile Steel

- High tensile steel is separated from the tyres during the rasping process.
- Used by steel mills to melt down and create steel railway wheels for Australia's rail transport system.



Gas for energy

- Gases not condensed into TDFO during the thermal desorption process are captured and will be re-used as energy, reducing reliance on grid power.

¹ Recovered Carbon Char in Road Applications – Technical Report ARRB Project No.: PR-000507

² RPS Pty Ltd: Pearl Global's Process & Products, Environmental, Social and Economic Benefits Assessment – August 2022

A pathway to environmentally sustainable asphalt

Pearl Global's clean conversion technology takes waste tyres and reclaims high value products that support the improved safety, performance and longevity of roads, whilst decreasing asphalt's environmental impact.

Triple bottom line benefits – Future Australian footprint of 5 facilities

Pearl Global's TDFO and rCB

Circular economy benefit up to **29%** of **Australia tyres** being recycled by Pearl Global

24% reduction in the embodied carbon of asphalt¹

Total CO₂ – e reduction **805kg** per tonne of tyre processed or a reduction of **104,607 tonnes** of carbon as a result of Pearl Global's recycling process v's typical disposal²

Total CO₂ – e reduction **61,777 tonnes** of carbon with use in Asphalt²

\$320m of monetised public benefits for road safety/ maintenance over 30 years²

Assumption: Based on Pearl processing 130,000 tonnes of waste tyres per annum as per targeted regions.

¹ Embodied carbon is the carbon footprint of an infrastructure project before it becomes operational.

² RPS Pty Ltd: Pearl Global's Process & Products, Environmental, Social and Economic Benefits Assessment– August 2022

The time for change is now

Pearl's clean conversion process addresses multiple regulatory and governmental policy trends:



New environmental law changes both at federal and state government level



Tighter govt policy implemented relating to tyre disposal and how the tyre recycling industry operates



Producer responsibility laws for manufacturers to manage product end-of-life



Policy makers addressing the **environmental impact of the asphalt industry** and decarbonise its processes and products.

Summary

- We have proven unique technology developed in Australia that is a genuine environmentally sound solution to the world's waste tyre issue with upside benefit of significant contribution to decarbonisation of road infrastructure

We have an infrastructure plan underway at our Stapylton site that will enable us to achieve commercial scale volumes (15,000t annually) in the first quarter 2023

Future Australian footprint outcomes

- 29% of Australia's waste tyres upcycled (135kt or approx. 13.5m tyres per annum)
- 104kt of CO₂ – e savings per annum¹
- 200 new jobs in advanced manufacturing created
- Safer more durable road infrastructure

¹ RPS Pty Ltd: Pearl Global's Process & Products, Environmental, Social and Economic Benefits Assessment – August 2022

An entirely new brand approach – to become the recognised brand



Our new logo centres around Entyr's activity in the circular economy. The two overlapping rings highlight reuse, and the sustainable transformation of one form to another.

- Texture inspired by both tyre treads and asphalt
- A colour palette reflective of the company's origins: a contemporary play on the Australian green and gold, and the colours of the Queensland rainforest,
- Friendly and modern typeface.
- To become Pearl Globals trading name in November
- A company name change to be put to share holders at the upcoming AGM

Contact Us

David Wheeley
Chief Executive Officer

David.wheeley@pearlglobal.com.au
pearlglobal.com.au

Authorised for release by Michael Barry Chairman