
Tyre Stewardship Australia Accreditation and Operations Update

Highlights

- Pearl becomes first processor of its kind to receive accreditation for its production facility by Tyre Stewardship Australia
- 20 Tons (~2,500 tyres) successfully processed during current commissioning
- Reclaimed products from operations delivered to industry participants
- Negotiations underway to advance offtake partnerships
- All regulatory approvals granted to refine, produce and sell petroleum products

TSA Accreditation

Pearl Global Limited (Pearl) (ASX:PG1) is pleased to announce confirmation of accreditation by the Tyre Stewardship Australia (TSA) for Pearl's unique tyre recycling process. Pearl is delighted to be the first tyre recycling company of its kind to gain this accreditation.

The purpose of the TSA, initiated by the Federal Government, is to address the significant issue of waste tyres and create sustainable solutions for end-of-life tyres, as well as increase resource recovery, recycling and minimise the environmental, health and safety impacts of end-of-life tyres generated in Australia.

TSA quote that, *"only 10 per cent of the almost 56 million EPU's discarded annually in Australia are presently recycled. The rest are disposed to landfill, stockpiled, illegally dumped or exported overseas¹."*

Pearl, a revolutionary tyre processing company that is advancing rapidly towards commercial-scale production, has harnessed next-generation technology to convert end-of-life tyres into valuable products with low emissions.

Receiving third party, independent accreditation from TSA demonstrates a formal endorsement of the Pearl process which provides multi-faceted benefits including:

- creation of re-usable products;
- minimal environmental, health and safety impacts; and
- an alignment of Australia's national waste strategy principles of increasing recycling rates within Australia.

¹ <https://www.tyrestewardship.org.au>

Operations update

20 Tons (~2,500 tyres) reclaimed as production ramps up

Pearl has successfully completed their first two weeks of site operations as it comes towards completion of commissioning at Stapylton, Queensland. 20 tons of end-of-life tyres have been converted into commercial value products ready for sale. This is equivalent to over 2,500 end-of-life tyres which may have been landfilled or exported.

Product samples and field trials

Over the last month, Pearl has sent preliminary samples of their liquid hydrocarbons, carbon char and steel to industry professionals for production testing in industrial processes. In many cases, these 'field trials' have led to bulk trials by potential offtake partners.

Used tyre supplier agreements

Pearl has accepted its first delivery of shredded OTR tyres (and therefore income at \$75 per ton) under its recently signed agreement with Australian Tyre Processors (*ASX Announcement 16 May 2018*) and will continue to test combinations of OTR and passenger tyres as feedstock to ensure maximised yields are achieved on a consistent basis. Passenger tyres are continuing to be supplied by one of Australia's largest tyre collection company, both ATRA and TSA approved.

Fuel Refining – Excise Manufacturing Licensing

In line with Pearl's research and development strategy for product value maximisation, Pearl has taken delivery and commenced commissioning its first 'batch process' fuel refinery (Fractionation Unit). The Fractionation Unit is modular in nature and designed to support the fractionation of the liquid hydrocarbon production derived from the TDU's at Stapylton.

After an extensive application process, Pearl has been successful in receiving all regulatory approvals to refine, produce and sell petroleum products. These approvals include:

- Queensland Department of Environment & Heritage Protection;
- Gold Coast City Council planning;
- Licence from Australian Taxation Office authorising production including manufacturing License 13084, and Permission to deliver goods, License Number 13085.

The fractionation process allows Pearl to target and isolate significantly higher value products for sale, from the raw liquid hydrocarbons.

The liquid hydrocarbon produced from the thermal desorption process is a high aromatic, solvent rich fuel. Testing and fractionation results to date have recorded a consistent recovery rate of solvents at 30 per cent. The solvent, consisting mainly of Toluene, Xylene and Limonene (common cleaning solvents) can be sold as presented from the refining process, or blended to make high-performance industrial degreasers. Pearl is currently in the process of field testing its degreaser products within the automotive services industry.

Chairman, Mr Gary Foster said that *“Pearl is proud to be the first Australian tyre recycling company of its type to have its processes accredited by the TSA. Whilst we continue to focus on our commercial operations, it’s a milestone to be recognised as a sustainable and environmentally-friendly business from such an important agency.”*

Pearl will continue to keep the market updated on its activities.

About Pearl Global Limited

Pearl Global Limited (Pearl) (ASX:PG1) is a revolutionary tyre processing company that applies unique, next-generation thermal desorption technology to cleanly convert tyres into valuable secondary products. Pearl has Australia’s first and only environmental approvals for the thermal treatment of rubber, and is in the process of commissioning its first commercial-scale production plant in Stapylton, Queensland.

Pearl’s technology is a significant advancement on other methods of processing waste tyres because it has low emissions, no hazardous by-products, requires no chemical intervention and is the only process that meets the standard emissions criteria set by the Australian regulators for this type of technology.

Tyres are not naturally degradable, with tyre fires² and pollution³ becoming major causes for concern, Governments are increasingly seeking solutions for dealing with waste tyres, and Pearl’s technology provides a clean solution to this global problem.

About the Tyre Stewardship Australia

Tyre Stewardship Australia (TSA) has been formed to implement and promote the development of processes for end-of-life tyres. Their mission is to reduce landfill, illegal dumping and the export of tyres in Australia.

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² Tyre fires a major hazard [ABC News 28 June 2017 re Tyre Fire Rocklea](#)

³ A global pollution problem [Report on tyre recycling and California smog problem](#)