

CLEAN CONVERSION TECHNOLOGIES

ABN 90 118 710 508

EnviroTalks – November 2021

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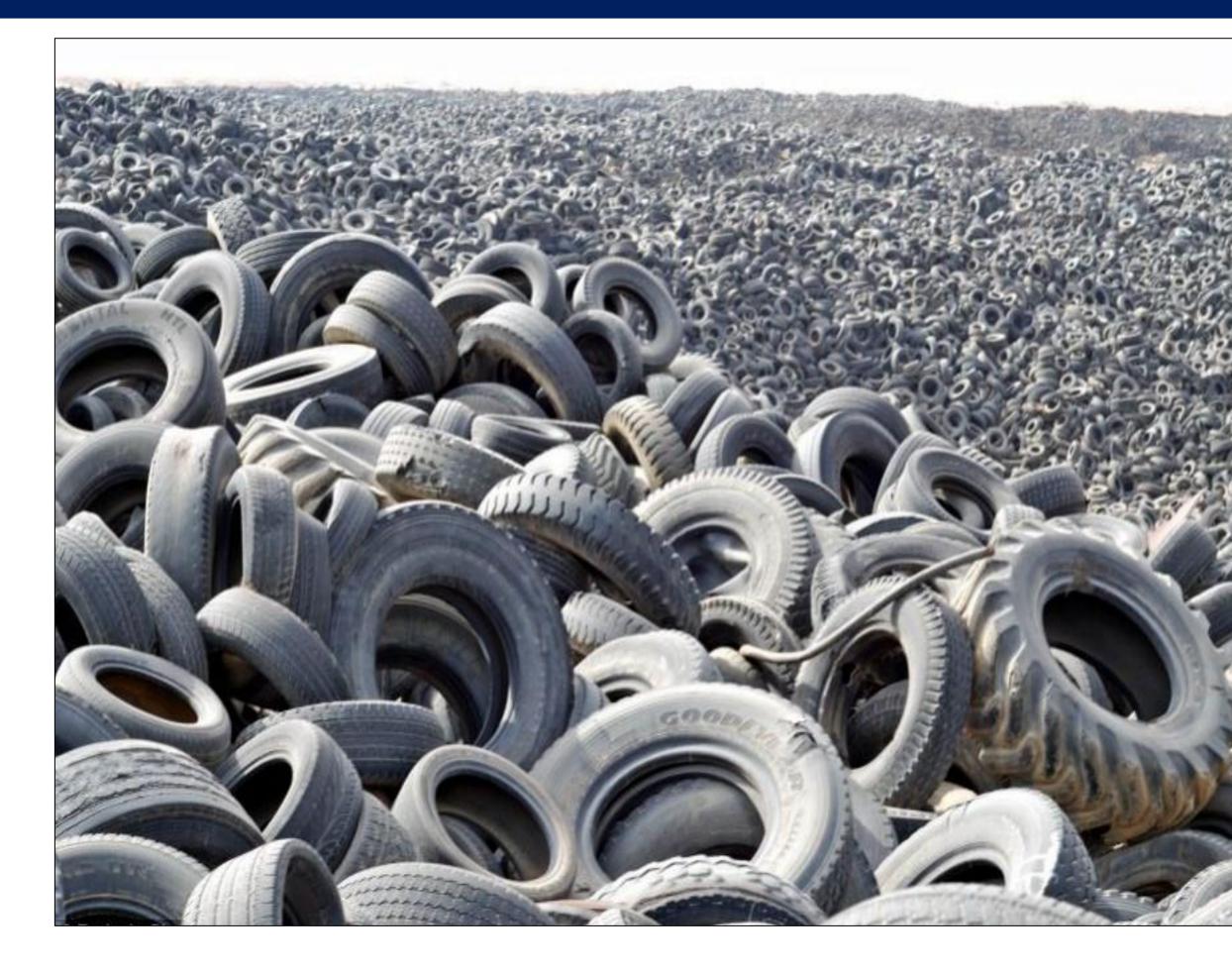
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Australia appears to lack both the will and capability to manage its waste tyre problem at home in a sustainable manner

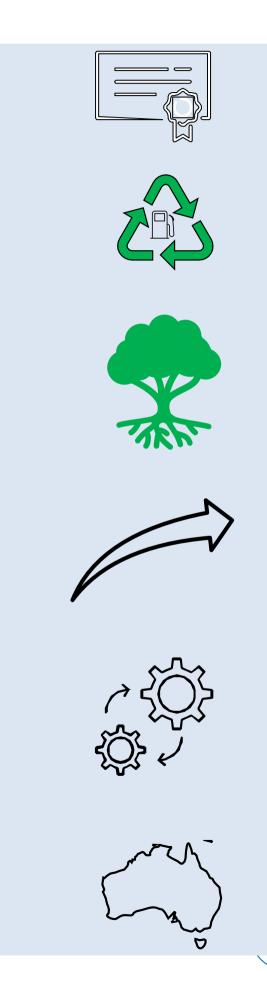




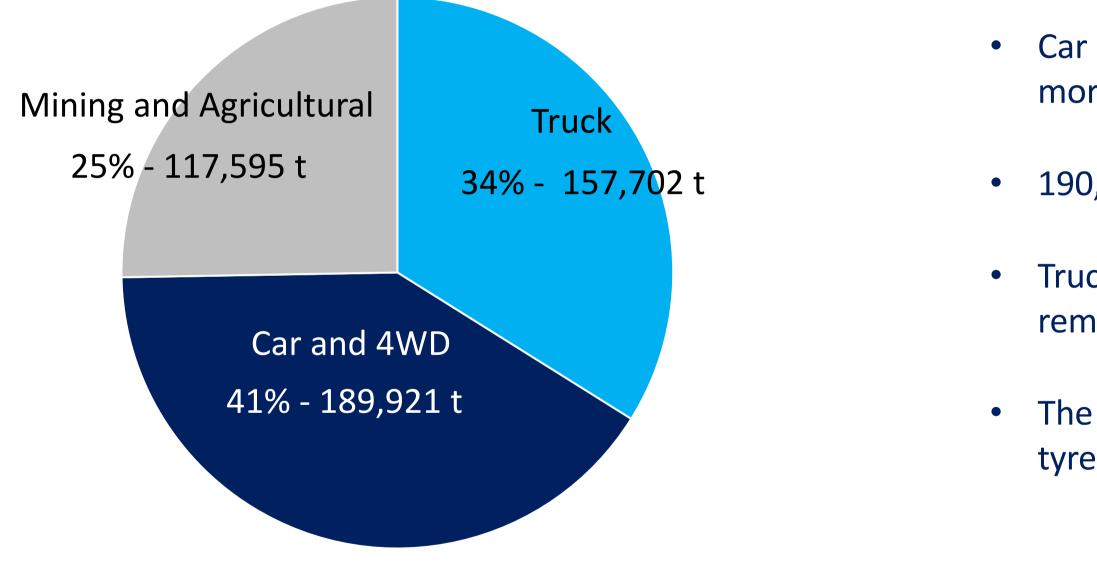
• This is a global problem.

Pearl Global has a solution

- Pearl Global collects and processes end of life tyres using globally unique proprietary technology -patent applications have been accepted.
- Tyres are processed into diesel fuel alternatives, steel and carbon char.
- Pearl Global's process is fundamentally different to traditional pyrolysis environmental and end product outcomes are superior.
- Pearl Global currently processes approximately 3,500 tonnes of tyres p.a. and is focused on ramping its activity to process around 10,000 tonnes per annum.
- These processes are complemented by tyre crumbing operations which provide other circular economy solutions, and synergies for partners and customers in the Asphalt industry especially.
- The company is looking to expand from its base in Stapylton, South East Queensland, to establish major regional footprints across the country and potentially offshore.



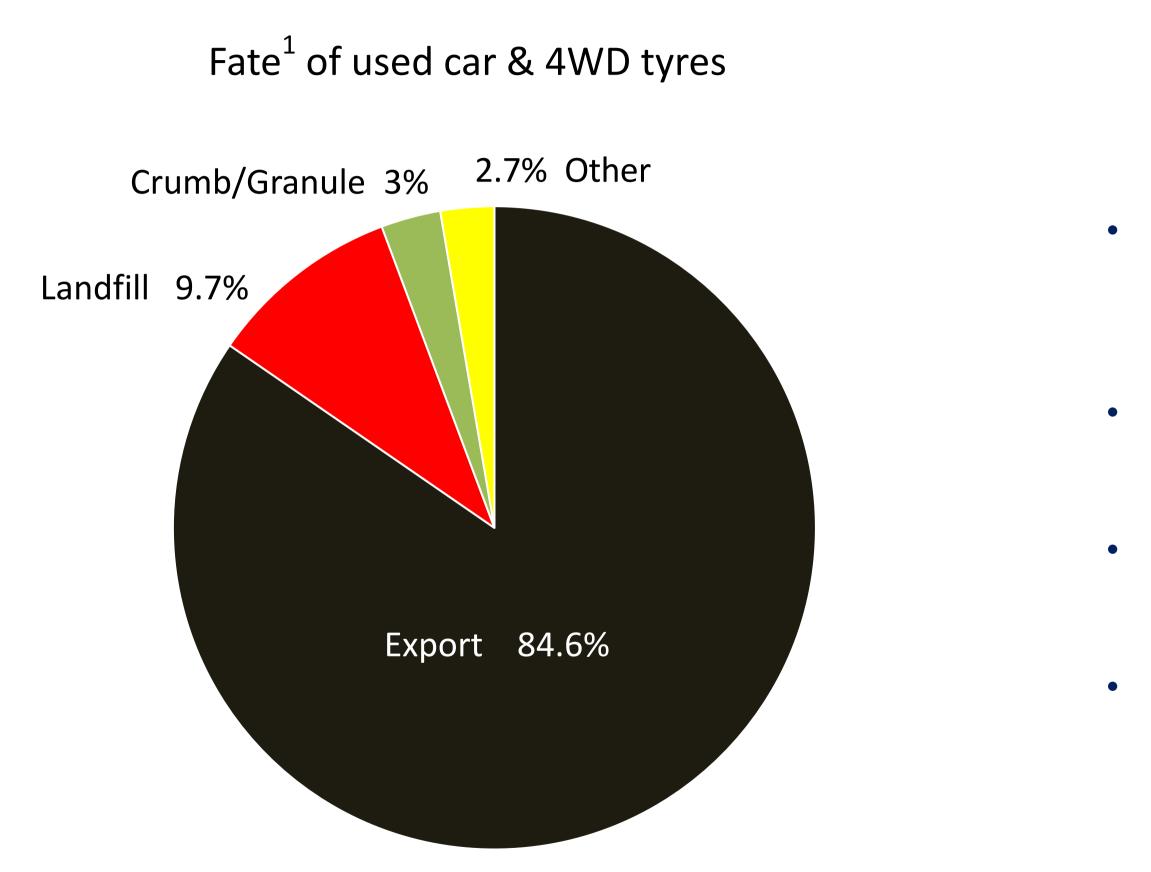
Market Composition¹ – tonnes of tyres disposed of



1. Source: Used Tyres Supply Chain and Fate Analysis, Tyre Stewardship Australia, June 2020,

- Car and 4WD tyres, ie. for passenger vehicles, account for more than 40% of end of life tyres.
- 190,000 tonnes is ~ 19 million individual tyres.
- Truck and Mining/Agricultural tyres make up the remainder.
- The local market for sustainable recovery of end of life tyres is largely untapped.

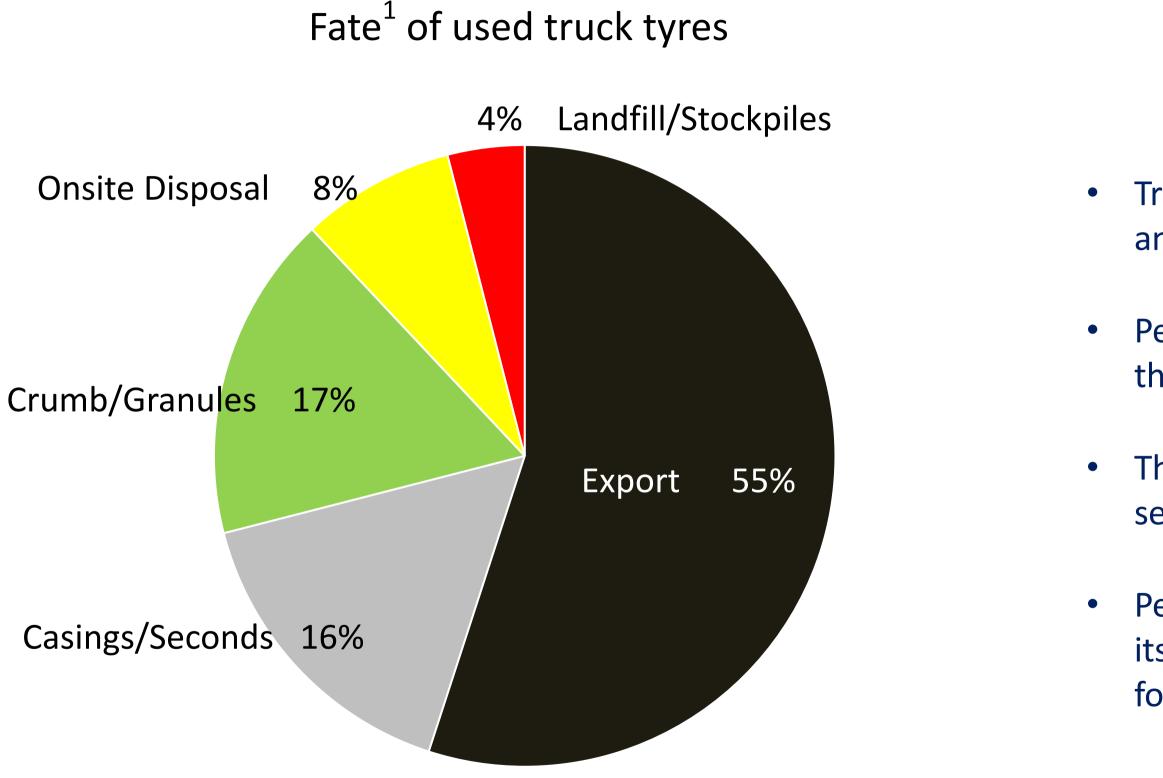
Almost 95% of Australia's Car & 4WD end of life tyres are either exported or end up as landfill



1. Source: Used Tyres Supply Chain and Fate Analysis, Tyre Stewardship Australia, June 2020,

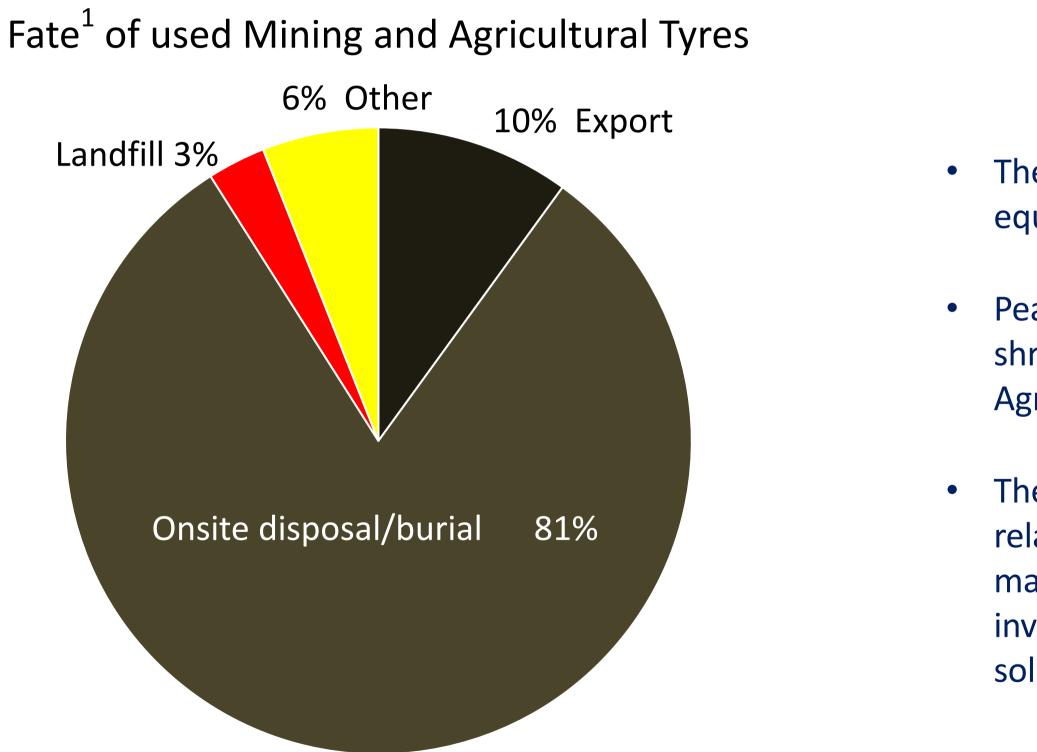
- The majority of passenger vehicle tyres are exported as their synthetic content is often problematic for reprocessing.
- Of the exported tyres, a large portion is burnt as a fuel supplement in cement kilns, boilers or furnaces.
- Overall, only a very small proportion are recovered sustainably.
- A government ban on the export of whole car & 4WD tyres comes into effect from 1 December 2021.

A higher grade of rubber allows end of life truck tyres to have a wider range of uses



1. Source: Used Tyres Supply Chain and Fate Analysis, Tyre Stewardship Australia, June 2020,

- Truck tyres are better suited to a range of commercial and industrial applications, particularly crumbing.
- Pearl's approach has been to target truck tyres for both thermal desorption and crumbing.
- This provides a sustainable solution, with crumbing also servicing other requirements of existing customers.
- Pearl has recently begun commercial production from its crumbing plant, producing both granules and crumb for Queensland customers.

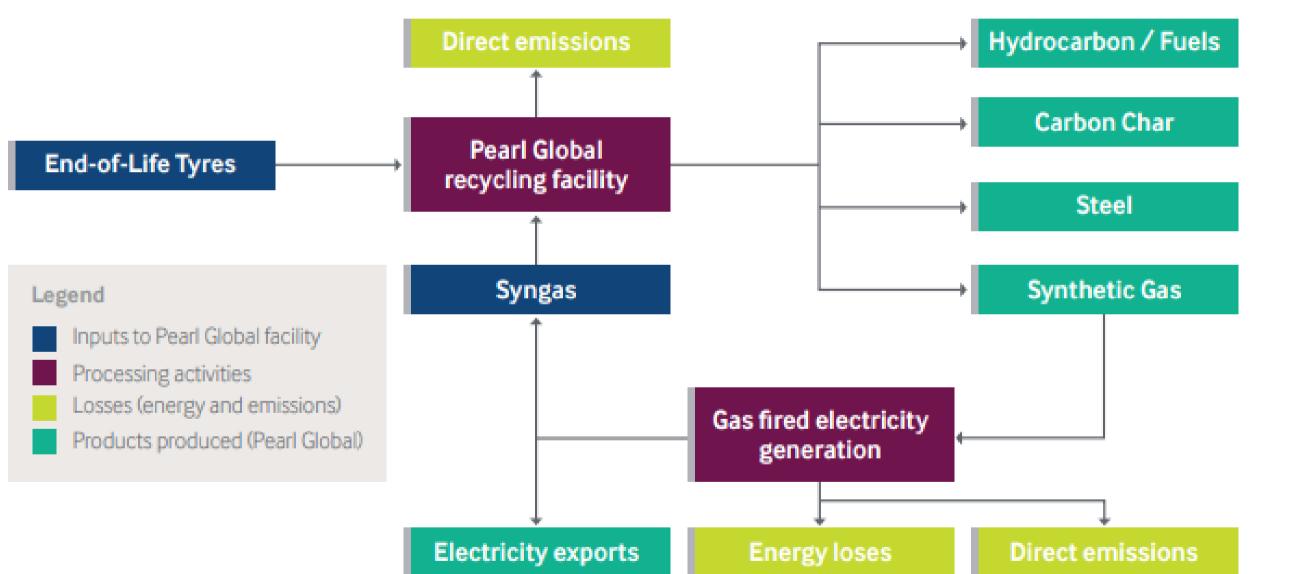


1. Source: Used Tyres Supply Chain and Fate Analysis, Tyre Stewardship Australia, June 2020

- The 81% of Mining and Agricultural tyres that are buried is equivalent to approximately 95,000 tonnes.
- Pearl Global intends to invest in the collection and shredding infrastructure needed for Mining and Agricultural tyre recovery.
- The company's existing Queensland location, and relationships with existing customers and tyre manufacturers, are strategic advantages for Pearl's investment in Mining and Agricultural tyres processing solutions.

Pearl Global's activities strongly align with circular economy objectives

THE PEARL GLOBAL TYRE PROCESSING FACILITY



Source: RPS Pty Limited report to Pearl Global and ROC partners, Lifecycle Greenhouse Gas Benefits from Tyre Recycling, 2020

- Pearl Global is driving towards its own energy and carbon efficient production processes.
- Future implementation of power co- \bullet generation capacity will allow the company to directly reduce its carbon footprint.

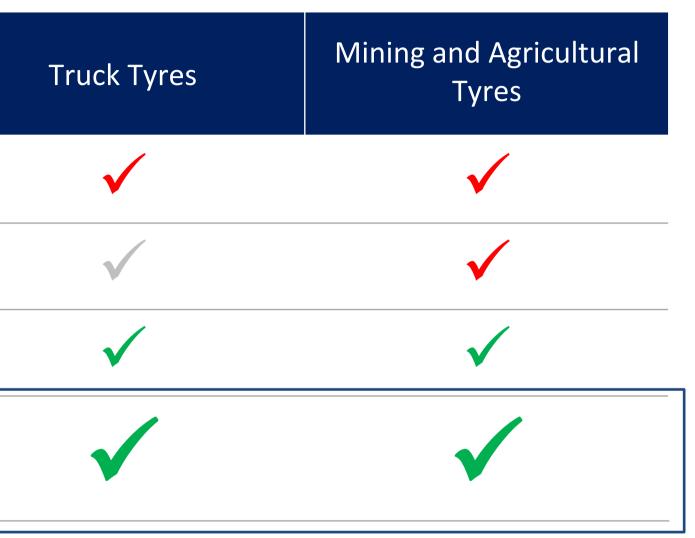
There are limited solutions for the disposal of end of life tyres

Disposal Method	Environmental Impact of Disposal Method	Car & 4WD Tyres	
Export	Negative		
On Site Disposal / Burial	Negative		
Crumbing	Positive		
Pearl's Clean Thermal Desorption Technology	Positive		

Pearl is uniquely placed to exploit its **competitive advantage** of being able to provide a sustainable and environmentally sound solution to the imminent challenge of disposing of car and 4WD tyres.

Pearl's crumbing operations augment its ability to provide value adding solutions to the disposal of an even wider range of tyres.

¹ Whilst car and 4WD tyres can be crumbed, their nylon weave is problematic in the crumbing process and the synthetic content of the rubber material limits the ultimate end uses



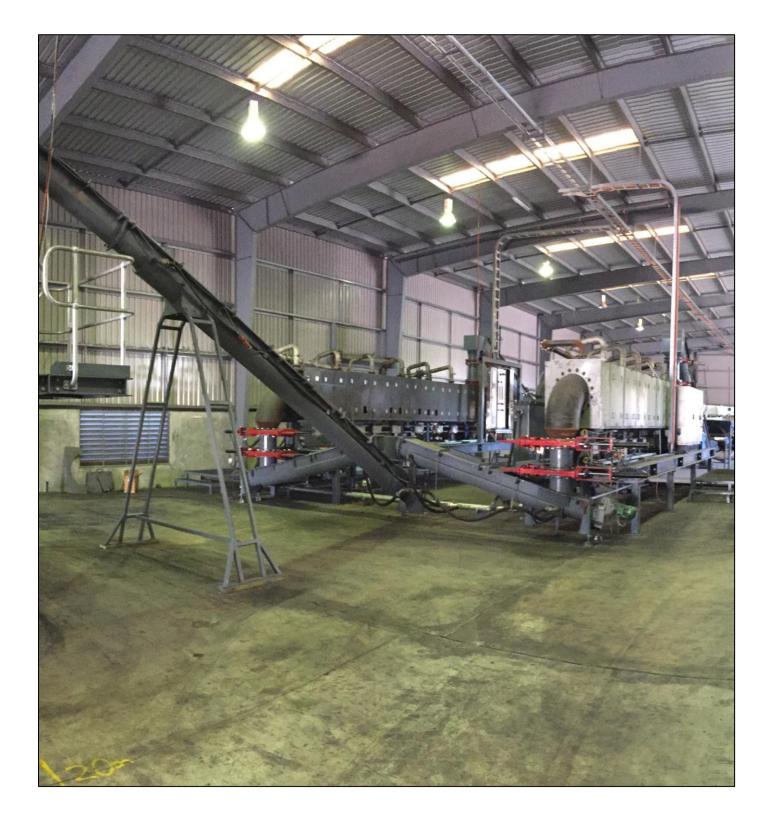
The Pearl Global Solution is fundamentally different to traditional Pyrolysis

	Pearl Global Thermal Desorption	Traditional Pyrolysis	
Processing Method	Low Temperature	High Temperature	
Outputs	High quality and saleable	Low quality	
Emissions	Low, and available for power co- generation	High	
Operational platform	Continuous	Batch	

Pearl Global's solution employs a thermal gradient temperature management process for which global patents are pending.

The high quality outputs, combined with low emissions, are unique to Pearl Global's process.

The infrastructure is modular with the ability to roll out to sites of varying sizes.

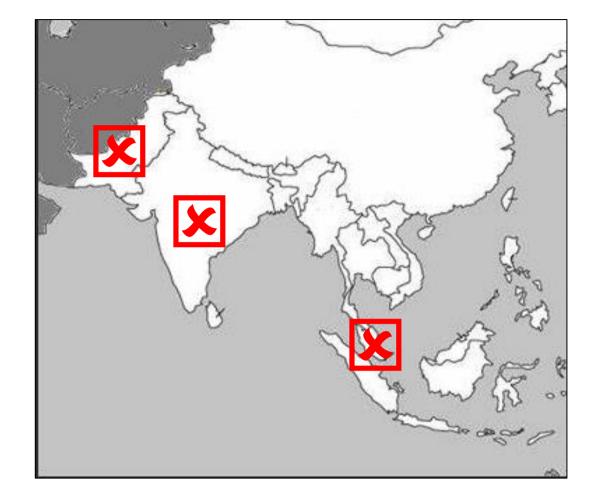


Thermal desorption units at Pearl Global's Stapylton site.

Pyrolysis operations have been shut down in other countries

- In Malaysia, India and Pakistan tyre recycling and processing plants have been shut down as they have failed to manage the pollution generated by poorly controlled and unsophisticated pyrolysis processes.
- Pearl Global's patented technology delivers best practice environmental outcomes.
- Additionally, synthetic gases produced from the desorption process are also suitable for power co-generation.

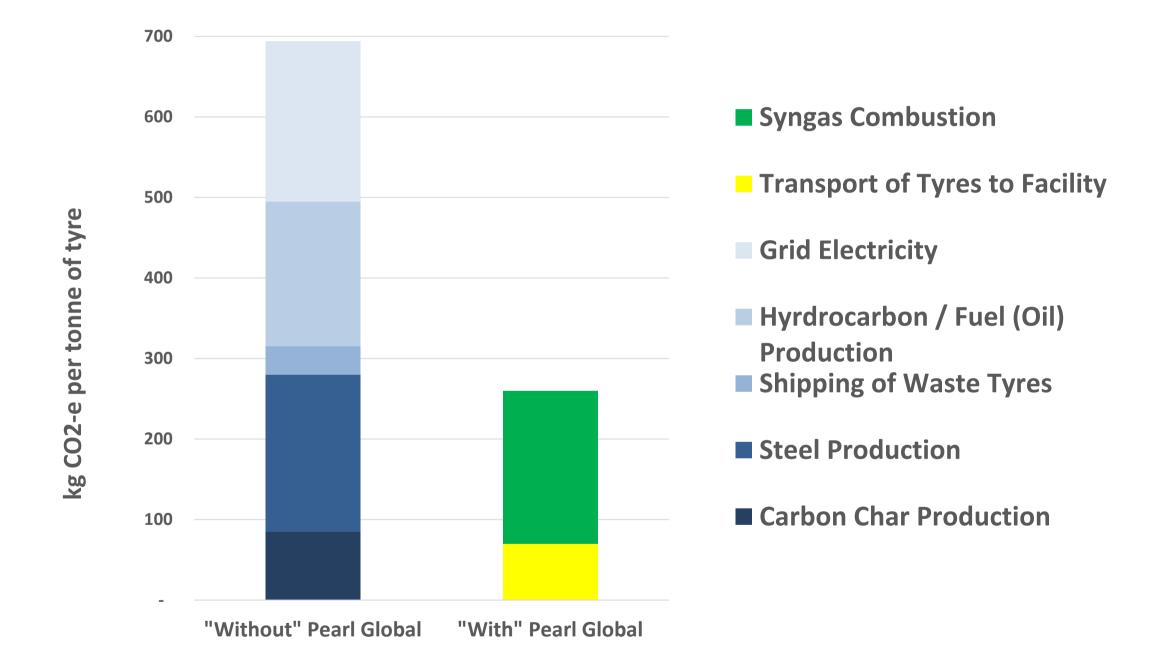
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Pearl Global's process significantly reduces greenhouse gas emissions

EMISSION COMPARISON FOR THE "WITH" AND "WITHOUT" PEARL GLOBAL SCENARIO

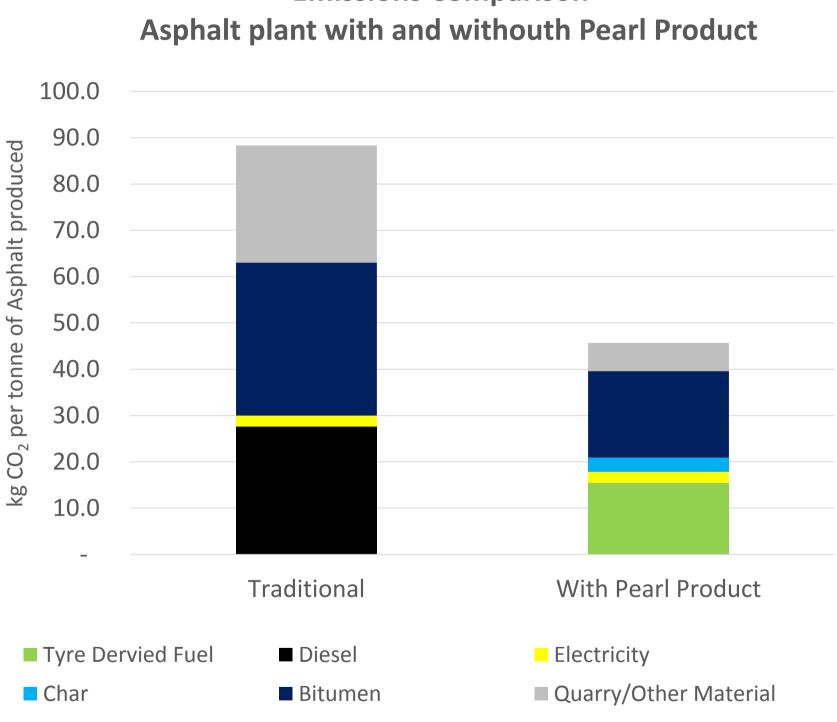


Note: Figure excludes the biochar sequestration benefits that would be realized if Pearl Global supplies carbon char produced to the agricultural industry.

Source: RPS Pty Limited report to Pearl Global and ROC partners, Lifecycle Greenhouse Gas Benefits from Tyre Recycling, 2020

There is a reduction in CO₂, by more than half, where Pearl's processed are used to produce fuel oil, carbon char and steel.

There is an almost 50% reduction in CO₂ emissions from the use of Pearl Global's products in the Asphalt industry



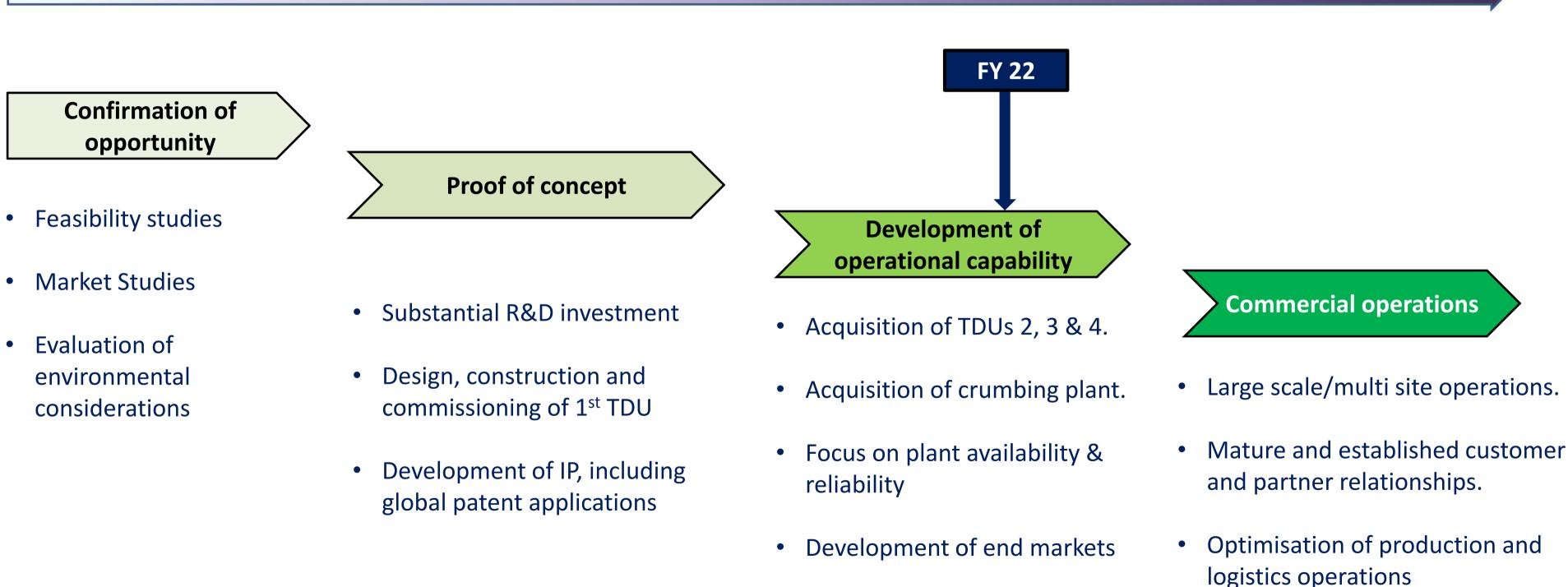
Emissions Comparison -

Source: Austek Asphalt, 2020

- Widespread adoption of Pearl's products within the Asphalt industry will result in farreaching positive environmental changes.
- As well as environmental benefits, the products generate efficiencies within the Asphalt manufacturing process.

Since inception, Pearl Global has focused on progressing through the phases necessary to develop tyre recycling technology to the point of commercial viability and sustainability





- Confirmation of patent status
- Acquisition of IP

Questions - where to from here?

