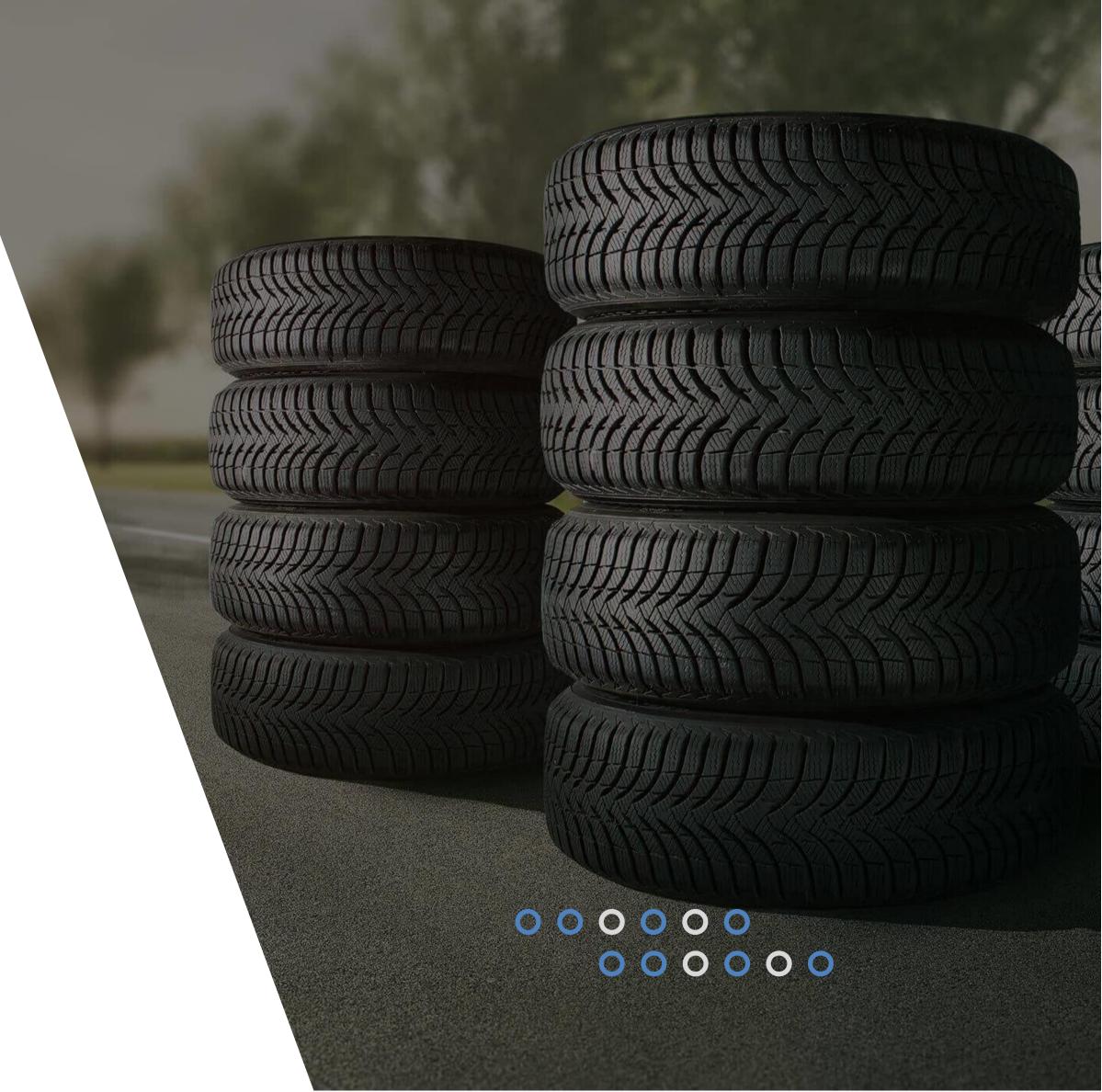




**Environmental technology transforming the waste tyre industry** 

OCTOBER 2020



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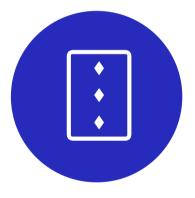
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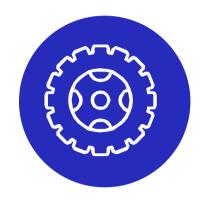
## **Introduction to Pearl Global**



Australia's first company to be licensed to thermally treat tyres and the only entity in commercial operations



Simple, linear and transparent business model using a 3-step process from collection to sales



Large addressable market – 1.6 billion tyres are discarded globally per annum



Strategic investment support from government and institutions with experience in energy sector



Significant benefits for community, economy and environment with positive outlook for government policy support



Approaching profitability through an increase in production and strategic expansion into asphalt and bitumen verticals



Leading specialist in cleanly converting end of life tyres into high-value sustainable products



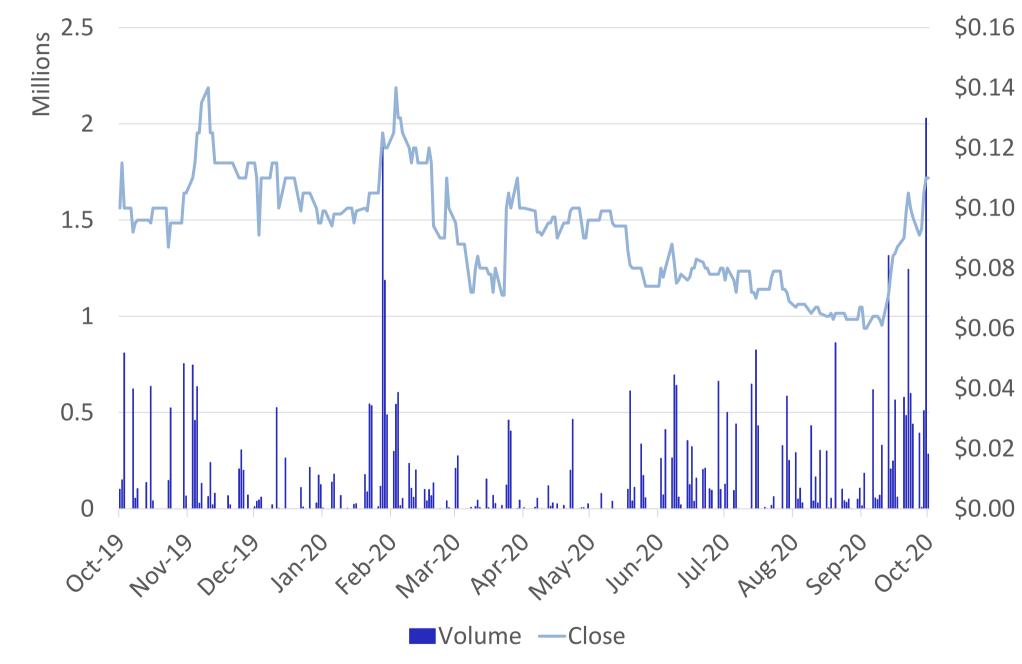
Management and board with a deep understanding of the clean energy sector



## **Corporate Overview**

Snapshot	
Share Price	\$0.11
Shares on issue	298m
Quoted options (24/1/21, 30c)	45m
Unquoted options (13/6/22 19.1c, 6/8/22 15c)	5m
Market Capitalisation (fully diluted)	\$38.3m
Cash as at 30 Sep 2020	\$3.1m
Strategic Investors	
First State Super – ROC Partners	18%
Energy Super Fund	4%
Capricorn Co-operative	3%





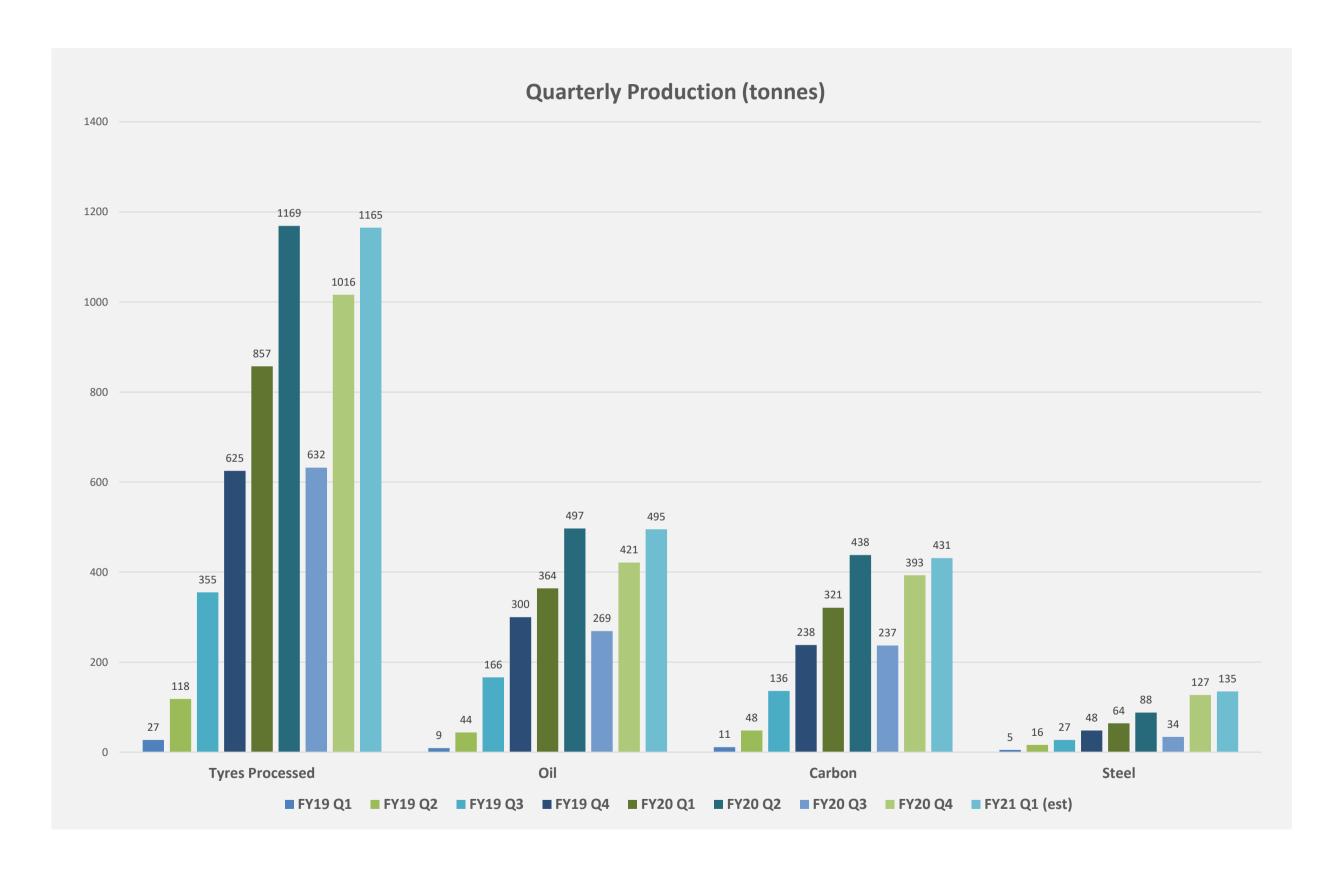
# Strong growth – Over 1 million tyres processed

Sustainable increase in production and income

Pearl has processed over 1 million tyres at its Stapylton facility

Scaling up to significant amounts of oil, carbon and steel production

Ample opportunity to continue production ramp-up in FY21 and beyond





## Immediate necessity to solve a global issue

Government and communities are increasingly insisting on solutions for dealing with all kinds of waste – including tyres



# **56 MILLION**

Tyres discarded in Australia p.a.



Large portion of market share still to be captured, with Pearl in early stages of penetrating the 120plant, 10m tpa Australian asphalt market



# 1.5 BILLION

Tyres discarded globally p.a.



# 63 PERCENT

landfilled, stockpiled, illegally dumped





## Social outcomes – significant benefits

Overwhelmingly positive social outcomes from carbon reduction and diversion from landfill

#### **IP DEVELOPMENT**

 Cementing Australia as a globally relevant market in developing environmental technology

# REDUCING STOCKPILING

 Reducing a significant environmental and humanhealth risk from issues such as toxic tyre fires

#### **CARBON REDUCTION**

- ~500kg of CO<sub>2</sub>e for every tonne of tyres recycled
- Combined technologies set the highest environmental and industry standards for clean waste conversion

#### **LANDFILL DIVERSION**

# WASTE AS A NATURAL RESOURCE

- Promoting the use of regeneration of waste resources and opposed to depleting virgin resources
- Energy conservation it takes a lot less energy to recycle than to create new products

# Overwhelming federal/state policy support to divert landfill waste streams

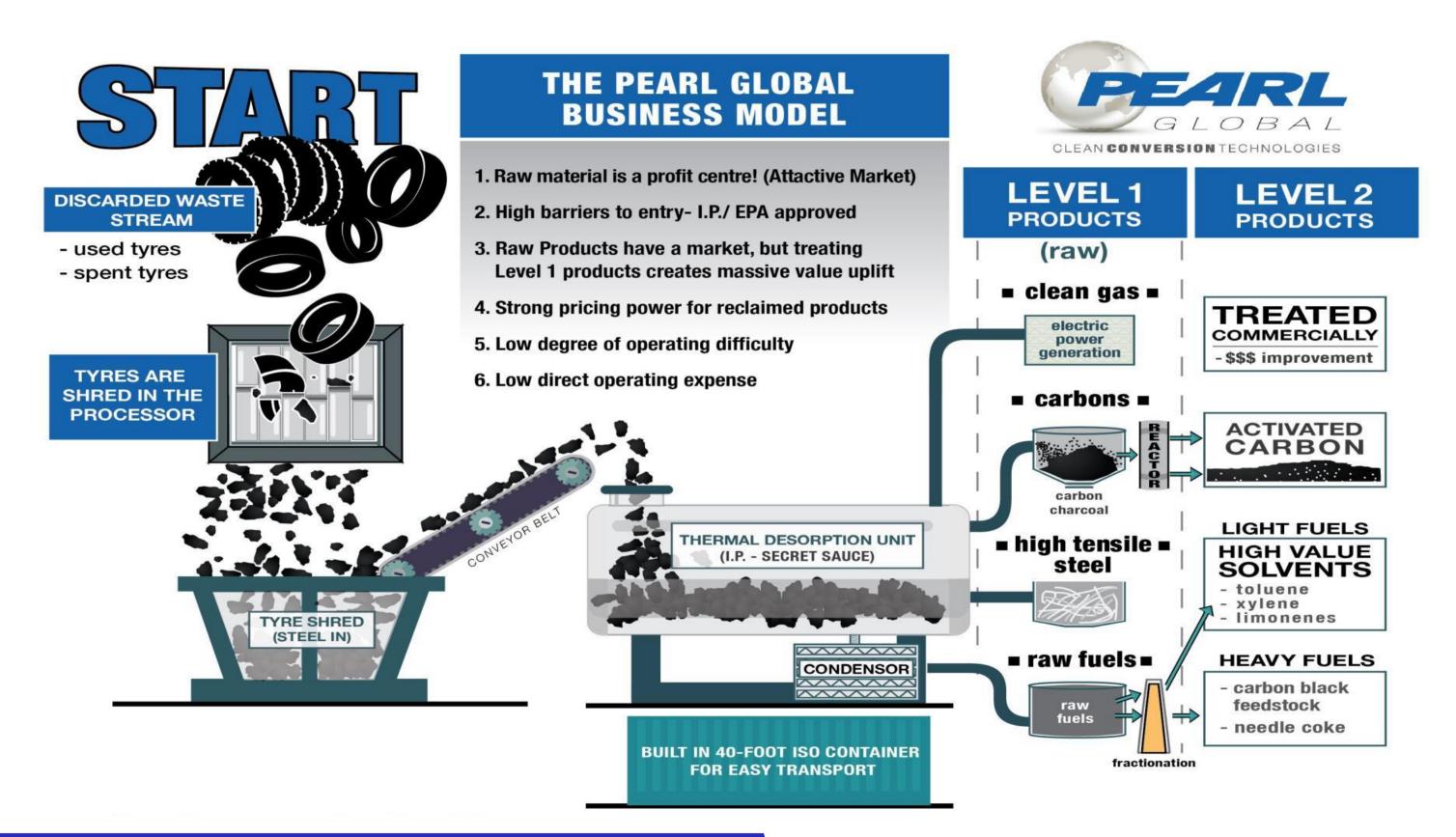
- Stimulating recovery and preventing stockpiling and illegal dumping activities
- Perfectly aligned to the "National market development strategy for used tyres" collaborative framework endorsed by all Australian state environment ministers
- Aligned to Basel convention: exporting countries to ensure hazardous wastes are managed in an environmentally sound manner





## Simple and transparent model

**RECEIVING A GATE FEE PRIOR TO PRODUCTION** 





## Linear, three-step end-to-end process

STEP 1

### **TYRE COLLECTION**

Raw material = Income



Policymakers increasing disposal fees

STEP 2

#### **PROCESS TYRES**

I.P. Thermal Treatment



Three year track record of success

STEP 3

### **SELL THE PRODUCTS**

Raw material = Income



Fuels, Carbons, Steel And Energy from our gases



## Scalable operations developing multiple valuable products



Pearl's patented process consumes waste tyres and cleanly produces:

### Carbon Char (80% pure carbon)

- Multiple uses due to high stored energy (Pearl carbon has 30% more energy than coal)
- Pearl targeting asphalt industry as a binder and filler
- Pearl's asphalt partners are to utilise Pearl carbon to enhance their asphalt

### Clean gas (energy use)

• Continuous process that uses three factors to produce clean gases as opposed to toxic gases

### High tensile steel

- Steel is separated along with the carbon char as part of the automated process
- Used in manufacturing

#### **Fuels**

- Raw fuel derived performs similarly to diesel
- Also used as Furnace/Heating Oil



## Partnerships with established expertise

**Commercial operators** 

### **ROC Partners** – cornerstone

- Leading alternative asset manager in Australasia
- 20 years of investment experience and \$6.4 billion under mgt

### **Capricorn Society Co-op Limited**

(Mechanic and automotive co-op)

- strategic investor
- 18,000 automotive members, \$1.5 billion turnover
- Buys large volumes of industrial degreasers and solvents

#### **Aussee Road Services**

(Part of the See Civil group)

- 5 year offtake agreement
- Working to enhance carbon and fuel products

## **Tyre Stewardship** of Australia (TSA) - ACCREDITATION

- Federal government project to find solution to waste tyres
- Pearl has become 1st processing company to receive TSA accreditation













Pearl has received over \$1m from the Queensland Government over two grants for Pearl's waste-to-energy project + resource recovery



## Ongoing investment into product development

**CREATING FURTHER VALUE BY PRODUCT IMPROVEMENT** 



Various fractions produced from Pearl hydrocarbons - Source Pearl 2017



## Asphalt and bitumen expansion

Australia produces 10 million metric tonnes of asphalt p.a. with 120 asphalt players nationally (Ref. AAPA website)

**Established industry seeking change and consuming a large volume of resources** 

Australian road authorities and contractors are actively looking for opportunities to minimise the impacts of their operations on the environment with particular focus on increasing utilisation of recyclable materials

In May 2018, the Australian Government committed \$6.3 bn in infrastructure payments to the states; this was followed up in the 2020 Federal Budget with \$1.3 bn for transport infrastructure projects in QLD and approx. \$250 m to modernise recycling and waste reduction infrastructure (aph.gov.au/About\_Parliament/Parliamentary\_Departments/Parliamentary\_Library/pubs/rp/Budget Review201819/Infrastructure)

Pearl has signed a 5-year offtake with a leading asphalt group to produce ~10ktpa of fuel and 7ktpa carbon char products

**Expanding industry verticals will enable Pearl to maximise the production capacity of the Stapylton** facility





## **Highly credentialed Board & Management**



Mr. Andrew DrennanCo-founder and Managing Director

Mr Drennan is a waste management specialist across corporate and operational teams, His experience covers roles as Environmental Team Leader at BHP Billiton Iron Ore for 10 years, as well as being a former Environmental Officer with the Western Australian Department of Mines and Petroleum. Mr. Drennan holds a Bachelor of Science (Environmental Science) from Murdoch University, Western Australia.



Mr. Brian Mumme
Director

Mr Mumme is a senior executive with over 30 years of national and international experience in commodities (oil, gas, agriculture), with a focus on marketing, trading, risk management and optimising supply chains. Prior to establishing his own consulting business, Mr Mumme was seconded from BP Australia into the role of President for the North West Shelf Gas Joint Venture for six years in a career of over 20 years with BP.



Mr. Gary Foster
Co-founder and Executive Chairman

Mr Foster has a demonstrated entrepreneurial work history covering financial services, agriculture and environmental industries. Mr Foster was a former CEO of an international commodities trading company, co-founder and current non-executive Chairman of ASX listed Vortiv Limited, a profitable cybersecurity business



Mr. Brad Mytton
Director

Brad is a Partner at ROC, with deep experience in clean energy technology, governance and corporate finance. Brad has been influential in assisting the Board for its future planning and growth. He holds an MBA from University of Oxford, and a B.Com (hons) in Management Science from the University of Canterbury.

## **Highly credentialed Board & Management**



Mr. Bert Huys Chief Technical Officer

Mr Huys has 30 years of experience in HSE Management and Research and Development in the mining and industrial processing industries, including over 10 years as Environment manager for BHP's West Australian Iron Ore operations. Mr Huys is also a Research Fellow with University of Western Australia – School of Mechanical and Chemical Engineering. Mr Huys is responsible for HSE Management and Process Commercialisation and R&D for Pearl.



Mr. Doug Swanborough Chief Financial Officer

Mr Swanborough holds an M.B.A., is a fellow of the Institute of Public Accountants (FIPA) and a Fellow of the Institute of Financial Accountants (FFA) United Kingdom. Mr Swanborough's skills include Governance, risk management and compliance, financial analysis and modelling, budgeting and forecasting and strategic planning and implementation.



Mr. Michael Barrett
Director

Mr Barrett is a Chartered Accountant with over 27 years of international experience in finance, strategy and corporate development, capital markets and risk management. Mr Barrett also has extensive experience working in the energy and resources industry. More specifically, Mr Barrett was previously Chief Financial Officer for Rio Tinto's US energy business. Mr Barrett spent two years as National Lead Partner for Deloitte's Risk Advisory Energy and Resources practice where he specialised in corporate governance, board advisory and risk management.

## **Progress timeline**

### 2010

Commencement of research & development of tyre processing technology

### 2017

Pearl lists on the ASX and secures approval to establish a plant in QLD

### 2020

5-year offtake agreement signed with asphalt manufacturer

### 2020

Second asphalt customer signed for Pearl's fuels and carbon products

### 2015

First Thermal
Desorption Unit (TDU)
prototype completed

### 2019

Investment from ROC
Partners to add further
Thermal desorption
units

### 2020

Surpassed 1 million tyres processed at Stapylton



## **Investment highlights**



Huge addressable market with low barriers to entry due to Pearl's innovative technology



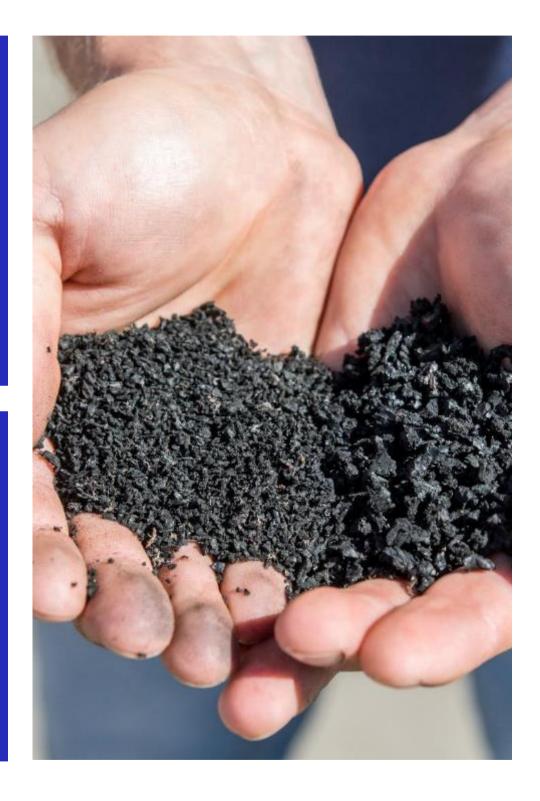
Established track record of processing tyres through a thermal absorption process



Pearl provides a real solution for companies with large amounts of idle tyres



Strong tailwinds from shifting attitude towards environment and waste policy





Core technology is patent protected, new technology has patents pending



Consistent growth in production and processing with offtake agreements in place



Growing industry verticals – initially moving into asphalt and bitumen



Management with strong industry relationships and knowledge of clean energy







CLEAN CONVERSION TECHNOLOGIES

## **Contact**

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