



Bell Potter Environmental Conference 2023

Presentation

21 November 2023

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Who we are

Entyr Limited

is an Australian company with unique technology that has the potential to play a significant role in solving the global waste tyre problem.

What we do

Solving the waste tyre problem

Our patented thermal desorption technology cleanly converts end-of-life tyres into valuable products, (fuel, carbon, steel) using heat in an oxygen free environment.

We are a complete environmental and circular solution.

Board and Management

Highly experienced across the globe, from engineering and environmental management to international trading and commodities.



David Wheeley (CEO)

For the past 20 years, Mr. Wheeley has successfully led both corporate and private waste management, manufacturing and distribution businesses. Most recently he was General Manager of Cleanaway Waste Management's Solid Waste Services Queensland. He has also held a range of leadership roles as Chief Executive Officer at Hynds, Managing Director at Hygrade Water, and Executive General Manager at Holcim. David has deep experience in Industrial and manufacturing sectors and is a corporate strategic specialist with strong leadership skills.



Christy Hayes (CFO)

Ms. Hayes is a finance professional with over 25 years' experience leading Australian and International finance teams across multiple industries. Most recently, Ms. Hayes was Chief financial officer at eftpos Payments Australia for 4 years where she partnered with the CEO and Executive team through significant strategic growth, M&A activities, R&D, and technology infrastructure development. Ms. Hayes holds a Bachelor of Commerce from the University of Queensland, is a Chartered Accountant and a graduate of the Australian Institute of Company Directors.



Michael Barry (Chairman)

Mr. Barry's executive career included 10 years in senior executive roles at Boral Limited, including Regional General Manager for the Western Australian and South Australian Construction Materials operations. Most recently Mr. Barry was CEO of MSF Sugar Limited for 13 years up until 2020.



Leanne Bond (Non-Executive Director)

Ms. Bond is a respected professional engineering executive, board Chairperson and independent non-executive company director of private, ASX listed, public sector and professional organisations primarily operating in Australasia and the Americas. Ms. Bond's executive career spans a range of industrial sectors infrastructure, water, energy, power, oil and gas, minerals, and postgraduate education.



Lindsay Barber (Non-Executive Director)

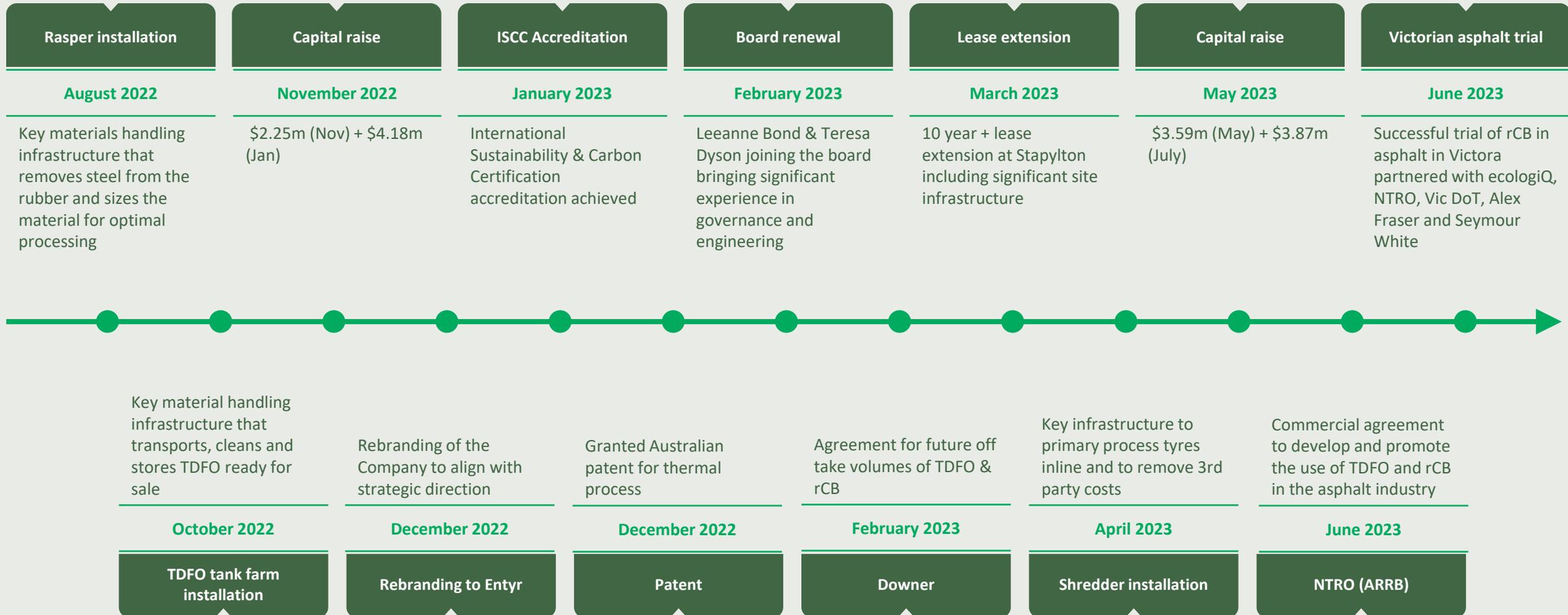
Mr. Barber has deep experience in all facets of the construction industry. He commenced his career in 1984 with Jennings Industries. Mr. Barber joined Johns Lyng Group as General Manager in 2005 transitioning to Chief Operating Officer in 2010. Mr. Barber led the Johns Lyng Group to IPO successfully floating on the ASX in 2017 raising \$100million on a \$220million market capitalisation. Post listing more than 15 acquisitions have been completed, the most recent being a USA company for AU\$200million led by JP Morgan and Moelis Australia.



Teresa Dyson (Non-Executive Director)

Ms. Dyson is an experienced company director, whose career has spanned both the public and private sectors. Ms. Dyson is an admitted lawyer and has previously been a partner at a global law firm and professional services firm. Throughout her career as a business executive, Ms. Dyson has delivered strategy across the financial services industry, transport, energy and resources sectors, as well as infrastructure projects. Ms. Dyson has a strong background in ESG governance.

FY23 achievements



End-of-life tyres are an unresolved large scale global issue



Creator: Exclusivepix | Credit: Exclusivepix 7 June 2013

Every year approximately **1 billion of waste tyres are generated**. However, the recycling industry processes only **100 million tyres every year**. Leaving **90% to be stockpiled, buried or burnt**. Tyres are indestructible in nature making them inherently difficult to recycle.

Source: [Global Tire Recycling Market Analysis 2025 Report: Opportunity, Demand, Growth and Forecast 2017-2025](#)

The scale of issue in Australia

56,000,000

used tyres disposed of annually in Australia¹

86%

OF AUSTRALIAN WASTE
TYRES EXPORTED TO BE
BURNT, DUMPED OR
BURIED.¹

93%

OF AUSTRALIAN WASTE
MINING TYRES ARE
BURIED ON SITE.¹

2,000

YEARS FOR TYRES
TO DECOMPOSE.²

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

2. Source: South Carolina Department of Natural Resources - <https://stacker.com/stories/2682/how-long-it-takes-50-common-items-decompose>

Patented thermal desorption unit (TDU) technology

Entyr's low energy, low emission technology is the only environmental licensed technology of its type in Australia

- **Low thermal energy** continuous process (not batch) that applies only heat (no acids or chemicals) in an oxygen free environment.
- **Key to the I.P. is the variation of time, temperatures and agitation** that is applied to each piece of rubber within the reactor, that allows low and "clean" emissions.
- High quality products produced due to **baking not burning/incinerating** unlike Pyrolysis processes that use high temperature, high heat which destroys product quality and environmentally unfriendly emissions.
- **Scalable infrastructure** with modular design and low capital costs.
- **Only company environmentally licensed in Australia to treat used tyres thermally.** Strong environmental practices.

Our clean processing technology is patented in Australia, the USA and with a European patent under examination.

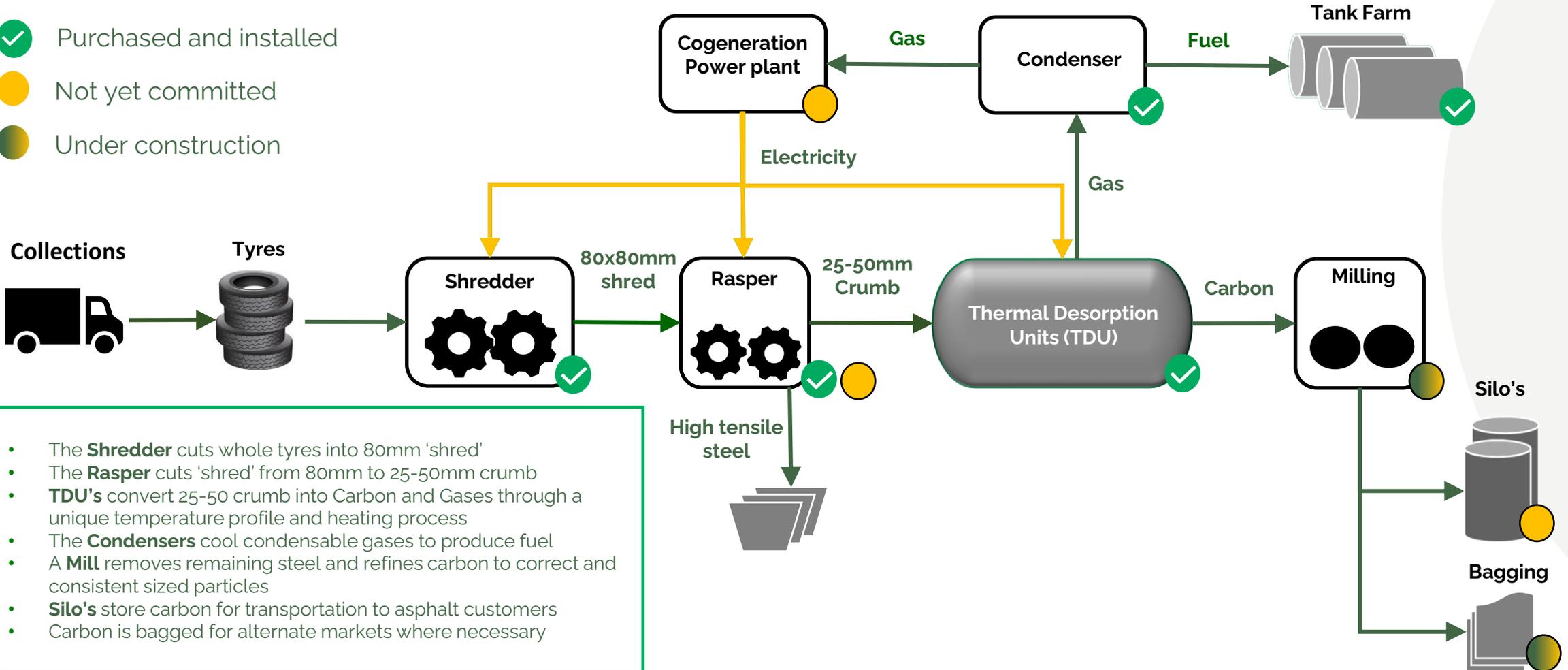


Thermal desorption units (TDUs) and Rasper

Manufacturing process

Entyr is developing a market leading end-to-end tyre recycling solution with further production capabilities to be acquired

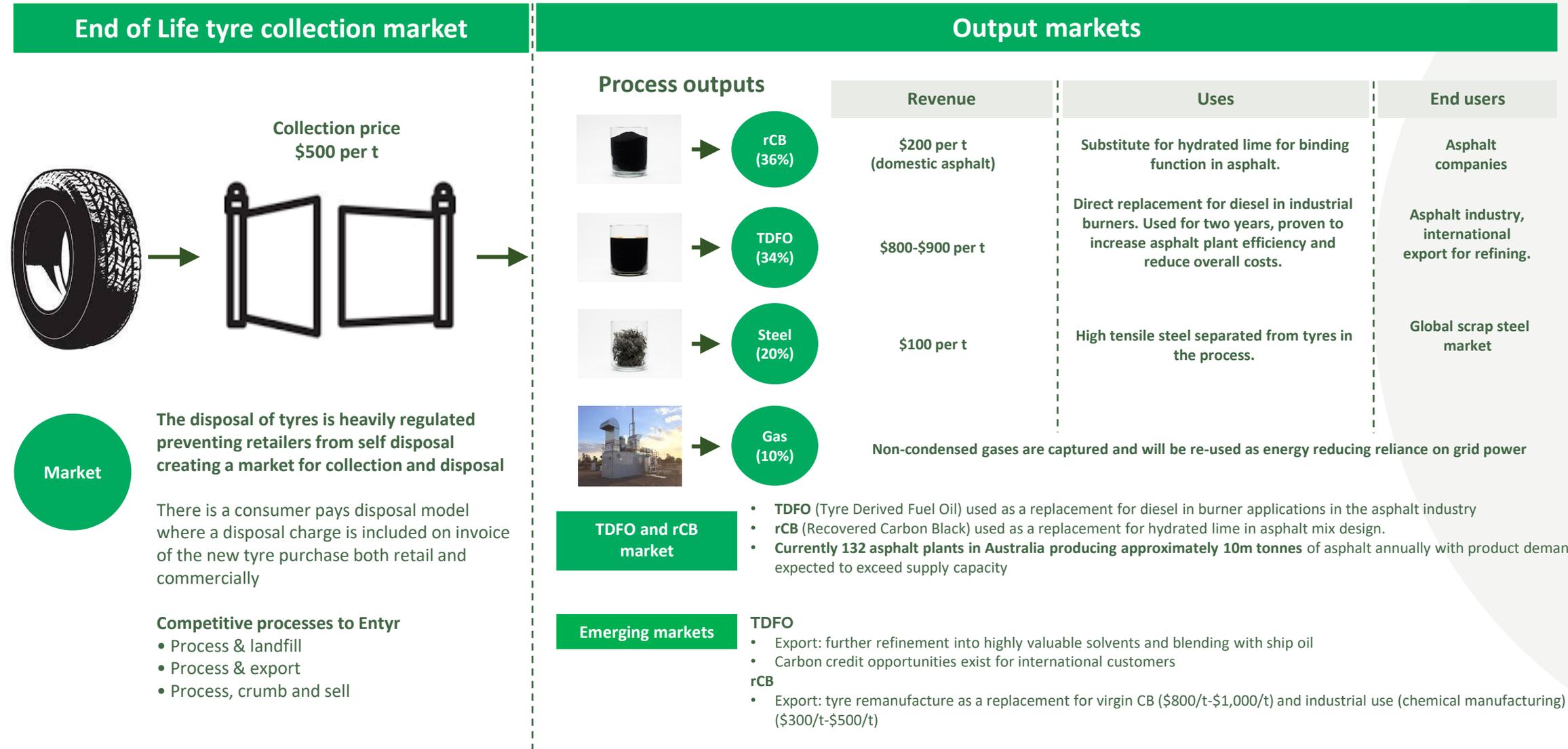
- Purchased and installed
- Not yet committed
- Under construction



- The **Shredder** cuts whole tyres into 80mm 'shred'
- The **Rasper** cuts 'shred' from 80mm to 25-50mm crumb
- **TDU's** convert 25-50 crumb into Carbon and Gases through a unique temperature profile and heating process
- The **Condensers** cool condensable gases to produce fuel
- A **Mill** removes remaining steel and refines carbon to correct and consistent sized particles
- **Silo's** store carbon for transportation to asphalt customers
- Carbon is bagged for alternate markets where necessary

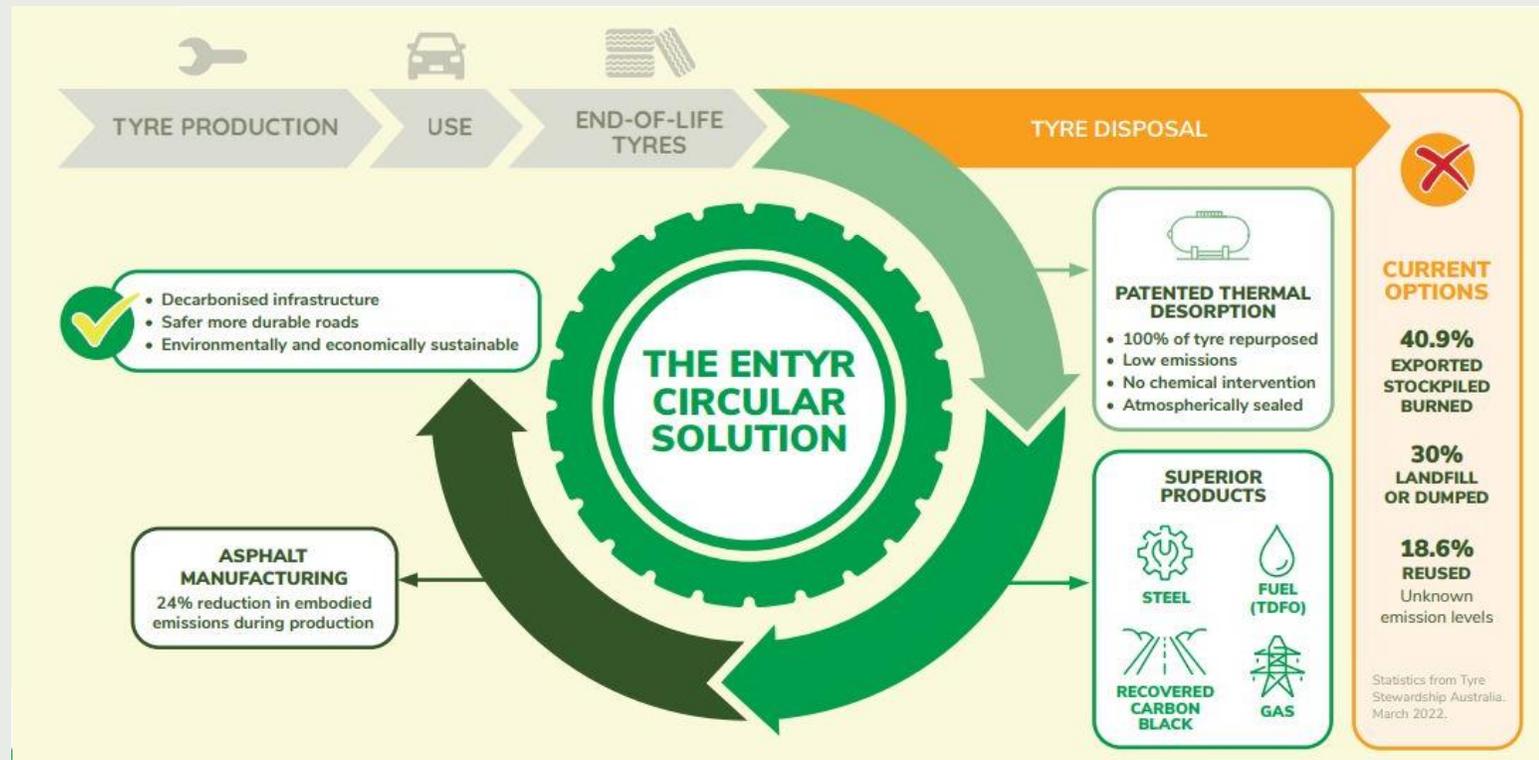
Business model target markets

Entyr provides tyre collection solution and technology delivering high-value end-products to attractive markets



Circular solution

Globally unique IP and proven low energy, low-cost tyre processing and re-purposing



- ✓ Diversion from landfill
- ✓ No exporting of tyres for burning
- ✓ Low emissions through out process
- ✓ Value adding products
- ✓ CO2-e saving benefits
- ✓ Decarbonising infrastructure
- ✓ More durable safer roads
- ✓ Does not prevent asphalt from being recycled
- ✓ Circular sustainable outcome for tyres

FY24 operational goals

1

Feedstock revenue

- Grow collection volume to 1500t per month
- Increase tyre collection Average gate rate to \$550/t
- Reduce collection costs by 10%
- Introduce contracts for tyre collection customers

2

Operational capability

- Complete planned infrastructure program on time and on budget:
 - Milling & bagging unit
 - Electrical, hydraulic and pneumatic upgrades
 - New gas management system
 - DCS
- Recruit and train required work force for full operations
- Operation of plant at between 1000 to 1500t per month rate

3

Offtake

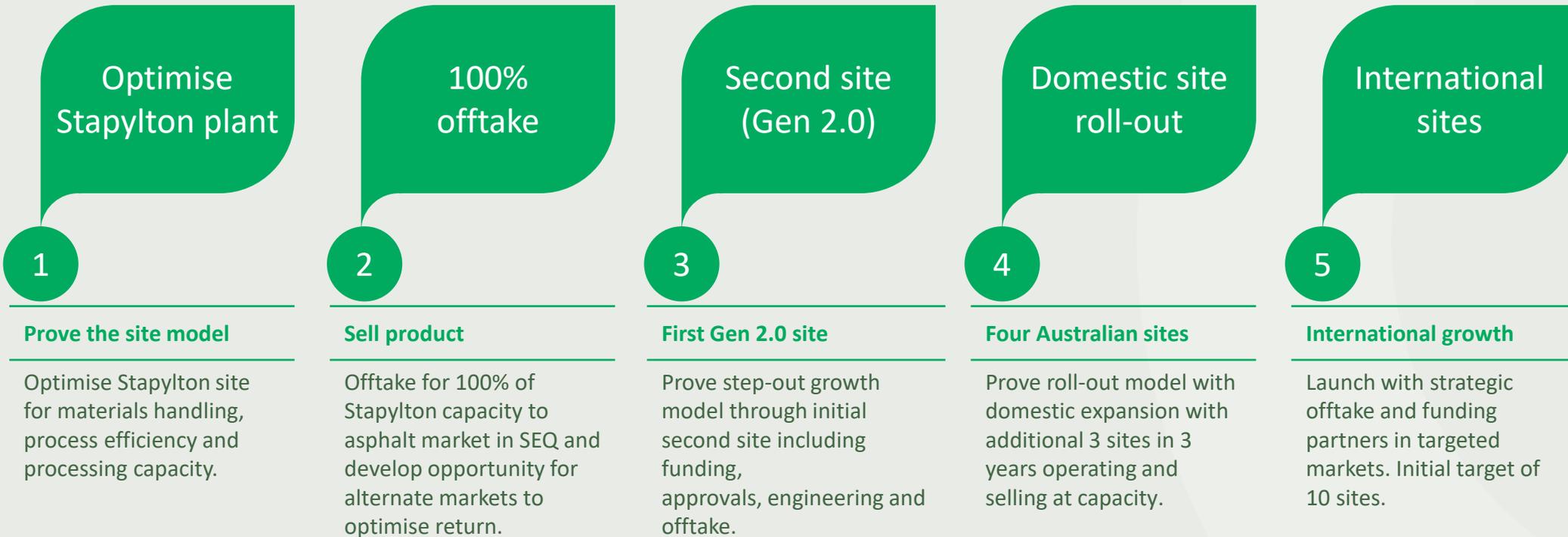
- Sales of 100% of manufactured TDFO
- Sales of 100% of manufactured rCB
- International opportunity identified for high quality, high value rCB

4

Expansion

- Government funding assistance
- Strategic partner opportunities
- Engineering & design of 2nd plant
- Commence second site
- Build domestic and global brand awareness

Strategic goals to deliver shareholder value



Investment highlights

Company well positioned to achieve commercialisation and sell into a high-volume market that can absorb all offtake produced by Entyr now and in the future

- 1 Invested in excess of \$40m over 12 years developing Company owned patented thermal process
- 2 Stapylton facility has processed more than 2 million tyres on site
- 3 Tightening regulations are demanding alternate solutions and driving increased opportunities
- 4 Significant infrastructure investments – latest upgrades to Stapylton nearing completion
- 5 Significant interest from potential global strategic partners aligned with strategic plan
- 6 Offtake volumes secured, including domestic and international customers
- 7 Extensive IP Portfolio with patents awarded enabling international expansion opportunities
- 8 The Company is well positioned to emerge as a global leader over the next 12 months

A photograph of a paved road winding through a dense forest. The scene is misty and atmospheric, with tall trees lining both sides of the road. The road surface is dark and reflective, mirroring the surrounding environment. The text is centered over the road.

**SUSTAINABLE, CIRCULAR
SOLUTIONS FOR OUR
PLANET**

On the road to a greener future



Pound road – road trial photograph courtesy Seymore Whyte & Alex Fraser

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<https://www.entyr.com.au>