



# REVOLUTIONISE TYRE WASTE

*SUSTAINABLE SOLUTIONS FOR END-OF-LIFE  
OTR TYRES AND CONVEYOR BELTS*



## Who we are

Since 2001, RubberGem has led rubber recycling. Using innovative tech to support the circular economy. Headquartered in East Rockingham with 2 additional operations in Naval Base and Port Hedland, Western Australia, we're dedicated to creating value from waste rubber. Our Western Australian advanced facility produces new products from end-of-life tyres with installed equipment such as:



1.5t/hour  
devulcanisation plant



3 x high capacity vulcanising  
presses for mat production



Robotic bonding line



Waterjet custom cutting

**RubberGem's** East Rockingham premises is the single largest Tyre Recycling premises in Australia with the capability of recycling:

✔ **Passenger tyres** = 12,000t/annum

✔ **Truck Tyre** = 10,000t/annum

✔ **Conveyor Belt** = 15,000t/annum

✔ **OTR Tyre** = 13,600t/annum





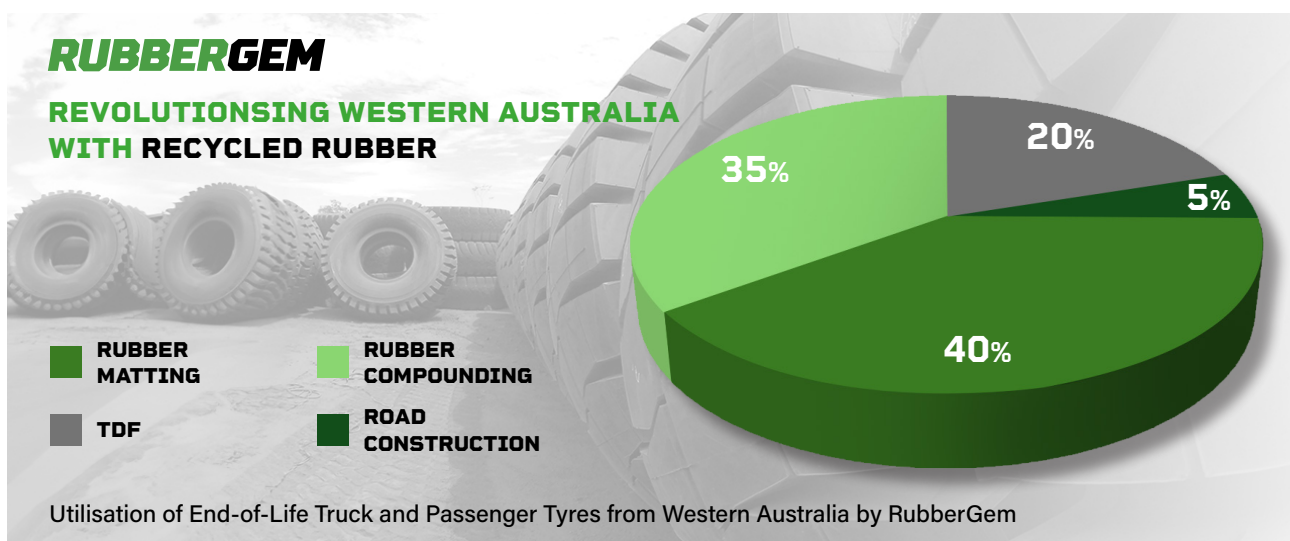
# RECYCLING WASTE WITH RUBBERGEM



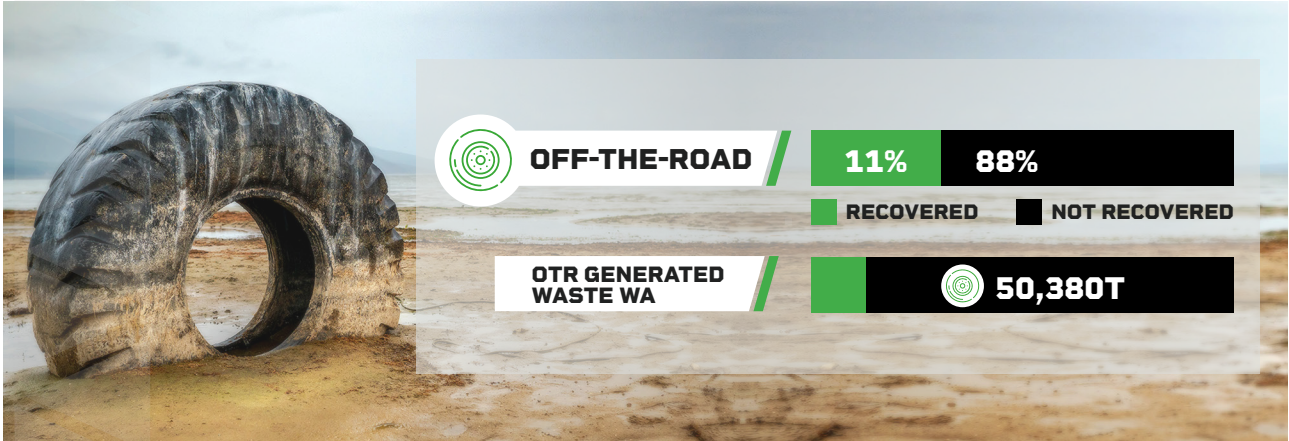
## What we do

At RubberGem, our commitment lies in adopting a fully circular economy model in our product manufacturing process. We recycle old tyres, transforming them into reusable compounds suitable for incorporation into new products like conveyor belts, V-belts, hoses, and various other industrial rubber goods. Additionally, RubberGem produces rubber mats specifically engineered for agricultural and industrial flooring applications.

The company intends to use passenger tyres to produce tyre-derived fuel (TDF) for a short period spanning from 2025 to 2027. During this time TDF will only account for 20% of our production. After 2027, RubberGem will implement an additional production line to process passenger tyres into moulded goods for domestic and international markets and thus discontinuing TDF production entirely.



In sectors like mining, agriculture, construction, manufacturing, and aviation, recovery rates for these essential materials have consistently remained below 11% in Australia. RubberGem steps in with the capacity to recycle 15,600 tons/year of OTR Tyres and 15,000 tons/year Conveyor Belts, making a significant impact in recycling and reusing rubber materials responsibly.



At the forefront of research and technology, RubberGem continually enhances its recycling capabilities. Our enduring relationships and decades of experience enable us to provide transparency, offering visibility across the entire supply chain.

The rubber used in tyres and conveyor belts often originates from plantations established through rainforest deforestation, diminishing biodiversity and lowering the natural environment’s CO2 absorption capacity. RubberGem is actively addressing these concerns by giving waste rubber new life, producing a diverse range of products for global use.



**Less Acid Rain**

The sulphur content of tyres is released in the heat. Recycling helps contain it from contaminating our atmosphere and causing acid rain.



**Less CO<sub>2</sub> emission**

Recycling saves 700kg of CO<sub>2</sub> per tonne of tyre input.



**Less Deforestation**

Recycling reduces the consumption of raw materials used to manufacture products.



**Less Mining**

The steel recovered from tyres & conveyor belts can be recycled, limiting the need to mine iron ore.



**WE AIM TO MAKE  
A GLOBAL IMPACT  
BY ALIGNING OURSELVES  
WITH SUSTAINABLE  
DEVELOPMENT GOALS (SDG).**





# TAILORED CONVEYOR BELT AND TYRE DISPOSAL SOLUTIONS

At RubberGem, we understand that every site has unique logistical needs when it comes to waste management. Partner with us to create a customised solution that ensures the efficient and continuous removal of your waste belts and tyres.

Choose your preferred method for disposing of end-of-life OTR tyres and conveyor belts from your facility, and contact us via phone or email to initiate the collection. You also have the option to pre-schedule a specific collection date in advance, and we'll take care of the rest.

Upon arrival at our recycling facility, the tyres are logged and sorted based on their condition, size, and type. Data is systematically collected at various stages to meet Chain of Custody requirements.

RubberGem converts your waste rubber into a variety of diversified rubber products through recycling at its world-class facility in Western Australia.





# TYRE RECYCLING PROCESS



Tyres & conveyor belts inspected on site



Your preferred logistics method for delivery to our facility



Tyres & conveyor belts are recycled into new products at our purpose built facility



New durable products are delivered globally



# **RUBBERGEM**

RECYCLING  MATTERS



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Visit our website