

ABOUT US & OUR PARTNERS

Waste Initiatives delivers complete tyre recycling solutions for Australia's automotive, transport and agricultural industries.

Waste Initiatives is a proud Australian family business with over 40 years of experience delivering waste management solutions across Australia, New Zealand, and the Pacific.

We provide full lifecycle support, from solutions design and commissioning to preventative and reactive service. All backed by a national service network and locally stocked parts.

With proven shredding and processing technology, our WastePac range provides reliable and cost-effective systems for small to medium businesses and first-time recyclers. From primary reduction through to secondary shredding, our machines create consistent outputs for TDF, crumb rubber and further processing, giving operators a reliable and cost-effective entry into tyre recycling.

THE TYRE RECYCLING CHALLENGE IN AUSTRALIA

Australia produces an estimated 382,000 tonnes of end-of-life (EOL) passenger, 4x4, light commercial, truck and bus tyres annually. With an estimated recovery rate of 66% and a recycling rate of 17% it is as important as ever to deliver reliable and scalable recycling solutions to Australia.*

With EOL tyres produced in vast numbers every year it is important to note that tyres are produced with steel, synthetics and rubber compounds that require specialised and reliable processing technologies to handle the sheer scale and volume of this waste stream.

Stockpiles are no longer an option, they create a fire and environmental risk, while collection and transport add to costs. Standard machinery is not designed to efficiently process these casings at scale, leading to mounting pressures for safe, economical and sustainable recycling.

THE SOLUTION?

Our **WastePac shredders** make tyre recycling efficient and reliable for small to medium recycling operations. They process whole tyres from passenger through to truck, as well as cut OTR segments, into consistent TDF, crumb and powder.

Integrated ferrous and fibre removal ensures clean outputs through advanced air and metal separation equipment.

We also offer a debanding solution for truck and bus tyres, protecting downstream shredders, reducing wear and improving overall system efficiency.



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OUR WASTEPAC SOLUTIONS FOR SMARTER TYRE RECYCLING



OUR RANGE

wasteinitiatives.com.au



* Tyre Stewardship Australia (TSA)
Material Flow Analysis Report 2023-2024

A RELIABLE SOLUTION FOR TYRE RECYCLING

Recycling passenger, 4x4, light commercial, truck, bus and OTR tyres is tough business and requires a staged approach. With specialised equipment at every step, Waste Initiatives, through our foundational WastePac range offers complete systems that safely and efficiently transform high-volume end-of-life tyres into valuable resources.

Tyre recycling begins with powerful shredding technology designed to break down tyres into manageable pieces. WastePac two-shaft shredders process whole tyres from passenger through to truck and bus tyres, as well as cut OTR segments, delivering consistent results at high throughput.

Secondary shredders then refine the material into uniform TDF, a fuel-grade product widely used in cement kilns and other energy recovery applications. This step creates value from waste while making a positive contribution to reducing the EOL tyre stockpiles.

For facilities seeking higher-value outputs, TDF can be further reduced into clean crumb rubber. Using rasper and separation systems, the material is processed to remove steel and fibre, leaving a pure rubber fraction.

This crumb is suitable for reuse in a wide range of products such as playground surfaces, sports fields, rubberised asphalt and moulded goods. Clean, consistent crumb adds flexibility for operators looking to supply both domestic and export markets.

The final stage is milling, where crumb rubber is ground into fine powder for industrial and construction applications. Powder offers additional opportunities in adhesives, coatings, plastics and specialist manufacturing. At Waste Initiatives, we handpick equipment to match each client's

throughput, tyre types and end use requirements. With a broad range of shredders, granulators, separators and milling systems, WastePac Tyre Processing lines can be tailored to integrate seamlessly, delivering reliable performance and the outputs your business needs.



As our **foundational range**, **WastePac** provides cost-effective, dependable recycling systems built for everyday use. **Robust, reliable** and **easy to operate**, **WastePac** equipment delivers the **performance our clients expect**. To find out more, visit wasteinitiatives.com.au



Scan the QR code to find out more on our Tyre Recycling Equipment



Scan the QR code to watch the tyre TDF recycling plant in action