



# Large problem. Easy solution.

OTR & CONVEYOR BELT RESOURCE RECOVERY



## About us

**When Tyrecycle started in 1992 it was the waste tyre division of a major tyre manufacturer. It is now an important part of the highly regarded integrated resource recovery group, ResourceCo.**

The ResourceCo Group - Australia's leading waste management and recycling business currently employs over 400 staff, operating in 20 locations, in five Australian states and three countries.

Tyrecycle also collaborates with the Group company ResourceCo Asia, experts in the cement industry, for the development of alternative fuel supply. ResourceCo Asia is the exclusive distributor of all Tyrecycle's TDF (tyre derived fuel) products.

Tyrecycle is a national business operating across the country and proudly holds the position as Australia's oldest and largest recycler of waste tyres and conveyor belts. Presently, Tyrecycle holds long-term contracts for collection with the major tyre manufacturers and retailers. And we're continually discovering new applications for scrap tyres in our quest to decrease the number of tyres and other rubber waste entering landfill.

## Collection coverage

With the largest collection fleet in Australia, Tyrecycle is confident that no waste is too hard or too far away to collect. With the Group's capabilities, Tyrecycle has the ability to service anyone, anywhere.

Tyrecycle can recover and recycle end of life tyres (ELTs), off the road tyres (OTR) and conveyor belts from anywhere in Australia - even some of the largest and most remote mining sites in the country.

The ResourceCo Group has also established a series of partnerships and consultancy services that have seen it expand into new areas and initiatives. And it's with this combined capability that Tyrecycle services and processes in every state, from metropolitan to remote locations and always in accordance with environmental regulations.





## Beneficial re-use

OTRs and conveyor belts are processed to create either Tyre Derived Fuel (TDF) or rubber crumb which is used in value-added products. By expanding rubber recycling and the application of tyre-derived products, Tyrecycle will not only will not only reduce the number of tyres and rubber sent to landfill but be able to create a cleaner, healthier environment.

Tyrecycle is the largest supplier of recycled rubber to a number of domestic industries - Construction, Manufacturing, and Automotive. Tyrecycle products are often used to replace, enhance or extend the quality of base virgin materials.



## The process

It's a very simple process.

### PRIMARY SIZE REDUCTION

Our first step in the recovery of standard tyres, Off The Road (OTR) tyres and conveyor belts from remote mining sites is to cut them down to size for safer handling. Then as with collections from manufacturers, tyre retail partners, local councils and other sources – we process them at secure facilities across Australia in accordance with environmental regulations (including all EPA and Council approvals).

### SECONDARY SIZE REDUCTION

Tyres and belts may be used for granulation feedstock, the base material from which we produce repurposed products.

### WASTE MINIMISATION / RECOVERY MAXIMISATION

When manufacturing products from waste collected, Tyrecycle recycles and recovers to the maximum level with no waste going to landfill. To minimise stock, chips are processed into granules and powder based on market requirements. Tyrecycle continuously seeks best practice to improve efficiency, which achieves zero to landfill as well as meeting regulatory requirements.

### CHAIN OF CUSTODY

And we even control the end of life of our products, to ensure the full chain of custody in our recycling processes. With strict documentation and process controls, Tyrecycle is able to supply reports supporting the end destinations of the products; be they rubber crumb or TDF.

# The Rubber Recycling Process (ZERO to landfill)

● TDF PRODUCTION

● CRUMB AND GRANULE PRODUCTION

COLLECTION AND SORTING

1



SHEAR OR SHREDDING FOR SIZE REDUCTION

2



FEEDSTOCK

3



SHRED ENTERS RASPER TO LIBERATE STEEL

4



TDF BENEFICIALLY RE-USED TO REDUCE FOSSIL FUEL CONSUMPTION

4



STEEL IS REMOVED FROM THE RUBBER

5



TDF SHIPPED TO ALTERNATIVE FUEL END USERS

5



ENTERS THE GRINDING MILLS FOR SIZING

6



END PRODUCTS OF RUBBER CRUMB AND GRANULES

7



EVERYTHING HAS A USE.

# Products created from the recycled rubber



## ATHLETICS TRACKS

The use of recycled rubber assists with impact absorption, increased performance and injury reduction.



## BRAKE PADS

Rubber crumb is used to lower noise and improve wear, and also minimises dust output to enhance vehicle appearance.



## CIVIL ENGINEERING

Used as drainage aggregates in the construction of roads and drains, chipped tyres are also used in embankments for road construction, reducing the weight and outwards pressure versus other materials.



## BUILDING INSULATION

This rubber matting insulation is especially used in units and apartments, both under flooring and in the walls for reducing and isolating noise.



## FUEL FOR ENERGY RECOVERY

Recycled rubber benefits several industries in Australia and Asia including cement, paper and steel production.



## MATTING SURFACES

A variety of matting products are made from recycled rubber non-slip door mats, mats for workshops and kitchens. They're hard-wearing, don't rot and can be washed easily.



## MARINE NON-SLIP SURFACES

Recycled rubber granules are added to paint, providing grip in wet areas that may become slippery.



## NEW TYRE MANUFACTURE

Recycled rubber is added to passenger tyres, solid forklift tyres and wheelie bin tyres to reduce the need for new materials while lowering the cost of manufacture.



## PLAYGROUND SURFACES

Recycled rubber is used in soft-fall surfaces, such as children's playgrounds, to lower the force of impact and reduce injuries.



## ROAD SURFACES

The construction of road surfaces with recycled rubber enhances performance, reduces noise and increases the life of our roads.



## SPORTING SURFACES

Recycled rubber is used under synthetic grass for softness, particularly useful for sporting grounds.



## TILE ADHESIVES

Recycled rubber is used in tile adhesives, providing added flexibility and also prevents the tiles from cracking, caused by the movement of buildings over time.



Tyrecycle continues to work with government and industry to increase awareness of the importance of tyre recycling and the promise of associated product development.

## Get in touch

### National Phone Number

1300 4 TYRECYCLE  
(1300 489 732)

Phone +61 (0) 3 8339 3501

Fax +61 (0) 3 9305 2545

Email [sales@tyrecycle.com.au](mailto:sales@tyrecycle.com.au)

### VICTORIA

#### Head Office

30-56 Encore Avenue  
Somerton VIC 3062

Factory 2, 2 England Street  
Dandenong South VIC 3175

### WESTERN AUSTRALIA

10 Keegan Street  
O'Connor WA 6163

### NEW SOUTH WALES

81/85 Christie Street  
St Marys NSW 2760

36 Stenhouse Drive  
Cameron Park NSW 2285

### QUEENSLAND

Lot 1 Gypsum Drive  
Redbank Plains QLD 4301

### SOUTH AUSTRALIA

8 Meyer Road  
Lonsdale SA 5160

26 Cormack Road  
Wingfield SA 5013

### HOBART

Barwicks  
3 Weily Park Road  
Brighton Industrial Estate  
TAS 7030



Printed on recycled stock. TYR 0003 August 2019