Cleanaway's Kerbside Fleet

One of the most successful market segments for retread use in Australia is kerbside 'side-lift' waste and recycling collection trucks.

Cleanaway operates the largest waste and recycling fleets in Australia with more than 6,400 vehicles. Their heavy fleet sits at approximately 3,500 vehicles, with around 900 side-lift municipal kerbside collection trucks.

TSA consulted Cleanaway's National Fleet Repair and Maintenance Manager, Jason Berry, about Cleanaway's tyre retread experience.

"**Cleanaway's been a long-term user of tyre retreads on our side-lift fleet because of overall cost, durability, and reliability in a highly demanding application.** Kerbside collection tyres regularly rub the kerbside, are exposed to debris along the collection route, and sharp objects at the landfill tipping face.

A quality tyre with a strong side wall and casing is needed to start with and then we fit that casing with a tread specifically designed for our application. **Ultra-low priced truck tyres just don't have a casing that will stand up to our application needs – they simply don't last.**

We also want to support local jobs and a long-standing Australian industry that enables us to run a more efficient and reliable service.

As Australia's largest waste management provider, Cleanaway is committed to supporting the circular economy by improving material circularity. Using tyre retreads is one way for Cleanaway to do this by reducing waste generation and supporting reuse within our business."

Jason Berry
National Fleet Repair and Maintenance Manager, Cleanaway

"These days, Australia is able to produce a top-quality retread product that provides performance and cost savings for Cleanaway's kerbside fleet.

We'd encourage all fleet operators to look into retread and the whole cost of tyre ownership, not simply what you pay upfront."

Cleanaway provided TSA the following estimates of retread use for a recent 12-month period:

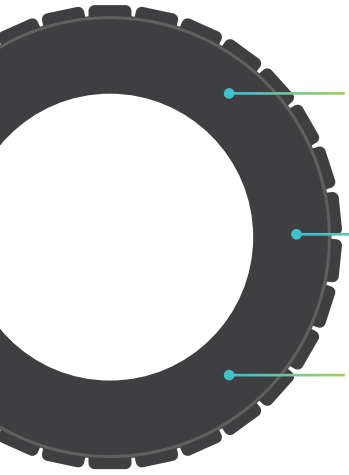
New Tier 1 or 2 tyre purchases for front tyre replacements:	Retread tyre purchases for rear axle replacements:	Ratio of retread to new tyre purchases is
3,000	**6,000**	**2:1**

See over for TSA's estimates on Cleanaway's Cost Per Kilometer savings by retread

Retreading Australia

Australian-made. Lower running costs. Reduced emissions.

Retreading is one of Australia's oldest circular economy industries — a proven process that takes a quality truck tyre casing and gives it two to six more working lives (depending on the application).
For fleet operators, that translates into lower running costs, a dependable Australian-made supply chain, and measurable emissions reductions you can pass on to your customers.

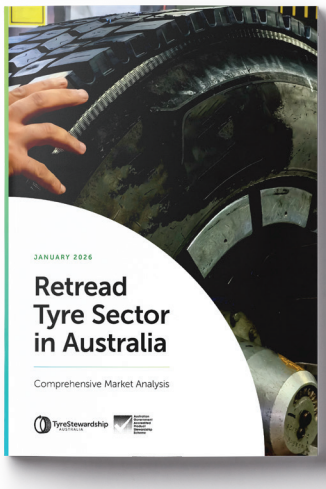


70–80% of original tyre materials conserved per retread (~40kg per tyre)

30% less oil to manufacture vs a new truck tyre

Australia's annual emission savings are estimated at 44,500 CO_2
(Equivalent to ~10,000 cars off the road each year)[3]

> "Australia's retread industry has been contributing to a circular economy for around 100 years and today produces a top-quality product that delivers significant cost, productivity and environmental benefits for the heavy commercial vehicle sector."
>
> **Lina Goodman**, CEO, Tyre Stewardship Australia



For a comprehensive market analysis of tyre retreading in Australia, download TSA's report: **Retread Tyre Sector in Australia: Comprehensive Market Analysis**

Based on the Cleanaway example of 6,000 retreads, TSA's estimates[1] of the benefits are:

Tyre cost savings:
$642,000 per year
(at $107 per tyre. 10-year adjusted annualised)

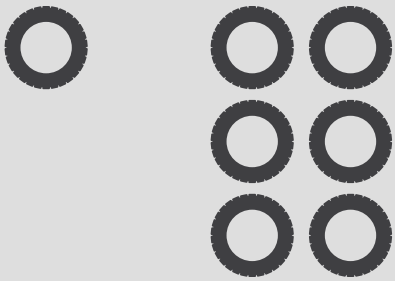
Tyre waste reduction:
240 tonnes per year
(at 40kgs of waste avoided per retread)

CO_2-e emissions reduction:
690,000 kg per year
(at 115 kg CO2-e per tyre)[2].

Urban Waste Truck, Buses
Potential Lifecycles

The more retreading of a casing, the more new tyre manufacturing emissions and resources are offset

Single-use low quality tyre:	Tier 1, 2 and retreaded tyre:
Lower quality, lower upfront cost	Retread x 6
Zero reuse	Offsetting the cost of up to 6 tyres



[1] TSA estimates are based on the assumptions included in the *Retread tyre sector in Australia: Comprehensive Market Analysis.*
[2] UMSICHT 2022, JATMA 2021, JATMA 2012.
[3] Assuming emissions savings of 115 kg CO_2-e per tyre and an average of 390,000 retreads annually.

TyreStewardship AUSTRALIA

Australian Government Accredited Product Stewardship Scheme

www.tyrestewardship.org.au

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