

Carbon Recovery Ltd

Tyre Recycling



Carbon Recovery Ltd has developed a nationwide collection and recycling programme for end-of-life scrap tyres of all sizes.

Scrap tyres have become a problem waste in New Zealand. According to the Ministry for the Environment about 4 million each year or 11,000 every day need to be disposed of appropriately in order to reduce the risk to people and the environment.

Carbon Recovery Ltd has the solution. Our tyre recycling programme enables tyre retailers, council transfer stations and scrap tyre clean up initiatives to recycle all unwanted scrap tyres safely and avoid landfilling or accumulating them on your property. We have the capacity to recycle all of New Zealand's scrap tyres regardless of size.

Become a recycling partner and protect our environment and conserve resources through the Carbon Recovery programme.

It's easy:

✔ The Carbon Recovery programme supports the New Zealand Waste Strategy and the Waste Minimisation Act 2008 by providing a zero waste scrap tyre recycling programme. It supports the efforts of local councils to minimise waste and recover resources. And it supports the efforts of regional councils dealing with illegal dumping and tyre clean up projects.

✔ Transfer stations, recycling centres, resource recovery parks and landfill operators can collect and recycle unwanted scrap tyres through Carbon Recovery Ltd

- Go to our website at www.carbonrecovery.co.nz
- Email carbonrecovery@xtra.co.nz
- Freephone 0800 868 473

Once the container has been filled and we have received confirmation, a container lifter will be dispatched for collection. Specialised collection services will operate for larger tyres. Some collections at your location may involve different trucks that can handle large off the road (OTR) tyres.

We can collect and recycle any size of tyre, and none need to go to landfill!

Don't leave tyres as a problem for the next generation to fix.



Storage and Transportation

CarbonRecovery Ltd
Tyre Recycling



Don't waste resources!

What to do:

1. Carefully assess what you currently do with tyres and track their final destination. Are they going to landfill? Are they going to farms?
2. Join our programme online at www.carbonrecovery.co.nz. You can also book by phone, email, fax or post.
3. You will receive a contract for services by way of a letter of agreement, which both parties will sign.
4. A container will be dropped off at your site
5. Your transfer station, landfill or recycling centre staff will accept tyres for recycling from the public and commercial operators. Stack them in the container provided then call us for collection.

Storage and transportation

It is important that tyres are placed into containers to reduce risk to the environment.

Using containers to store and transport tyres reduces the risk of illegal dumping and disposal. Regional Councils and Local Authorities can be confident our storage and collection system is safe, secure and reduces any health and safety risk.

It is the responsibility of your transfer station, landfill or site managers to ensure scrap tyres are stacked into the containers provided. Carbon Recovery will pay an agreed fee for this activity.

Illegally dumped tyres

We can work with your council to clean up illegally dumped tyres in your district or region.

Make sure your next clean up of illegally dumped tyres mean they don't end up in another illegal pile or a landfill. Let us collect, recover and process the scrap tyres for legal and approved export.

Do not contract substandard companies to and dispose of tyres to unknown destinations. We'll use the same systems and high environmental standards as we do for collecting tyres at your transfer stations, recycling centres or landfills.

Frequently Asked Questions

Carbon Recovery Ltd
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Q Why don't we just continue to landfill tyres if it is the cheapest option?

First of all tyres are recyclable and don't need to be put into landfills. Many countries around the world have banned tyres from landfill because there are better options, like recycling. Tyre recycling is supported in the New Zealand Waste Strategy and the Waste Minimisation Act 2008.

Q Why do we need to charge separately for tyres?

Because tyres are heavy to transport, difficult to process and require special handling and exporting to overseas markets - charges are required. Also, there is a cost for collecting and recycling almost all other products.

Q How do I get started?

Contact Carbon Recovery on our Free phone 0800 868 473, or go to the Carbon Recovery website and complete a request for services on our contact page. You can also fax Carbon Recovery on 07 578 3949.

Q Why use Carbon Recovery Ltd?

Because Carbon Recovery Ltd has the capacity to recover and recycle all of New Zealand's tyres. We have a zero waste to landfill policy and processing tyres for Tyre Derived Fuel (TDF) is the #1 method for scrap Carbon Recovery worldwide. It is also what is recommended by the tyre industry as the most efficient way to recover and recycle scrap tyres.

Q I have a pile of tyres at my transfer station. What do I do with them?

Call Carbon Recovery today and we'll supply a 20ft lockable container to your site to collect and recycle tyres of all sizes. See the section on who pays?

Q What if I have a one-off clean up project in my district or region?

No problem. A representative from Carbon Recovery Ltd will meet with you to discuss any clean-up operation in your region. We can recover and recycle tyres of any size and number.

Q Can I combine tyres of different sizes into one container?

Yes! You can mix the tyre sizes in the container. We'll supply a loading docket and information to assist your staff with loading requirements. Remember to keep a record of the type and number of tyres loaded so we can reimburse you for your handling/administration fee.

Q What about the tyres importers and retailers and Ministry for the Environment (MFE)?

At this stage, the tyre brand owners, retailers and importers and central government have not developed and do not have plans to develop any voluntary or mandatory product stewardship schemes. Tyres have not been identified as a priority product by the MFE and they do not attract any special levy or fees.

Q How do we know that Carbon Recovery Ltd will actually recycle the tyres?

Carbon Recovery Ltd has a zero waste to landfill policy and has been active over the past several years in trying to develop product stewardship schemes for scrap tyres. Carbon Recovery has contracts in place with the Korean Cement Industry. Documentation will be supplied upon request.

Q What about sending tyres to farms?

Farms have been used as a free disposal outlet by the tyre industry for years. It's time to stop the flow of millions of scrap tyres to rural New Zealand. There are other options for silage and some farms have thousands of tyres in piles. Some regional councils are beginning to take a stronger stance on the issue by looking at policies to reduce or eliminate the flow of tyres to farms.

Q What about TyreTrack?

TyreTrack was a scheme set up by the Ministry for the Environment and other stakeholders in 2004 to minimise illegal dumping of tyres and to improve recovery and recycling rates. The programme failed to meet its targets and has now been disbanded.

Q What about other recycling options?

There are very few options to recover tyres efficiently. The tyre industry does not accept recycled tyres to make new products and tyres retreading is all but finished in New Zealand. Because of their high energy value the tyre industry recommend using tyres as a fuel in the cement industry.

Q What is Tyre Derived Fuel?

Tyre derived fuel is the generic term given to pieces of tyre used as a fuel. Some experts say 70% of the world's tyres are recovered for alternative energy sources and they completely disappear at 650 Celsius, producing principally carbon dioxide and water. The temperature inside cement kilns is 1800 Celsius, which ensures complete combustion. The fuel has 20% more energy than coal by weight and up to five times less sulphur and meets air emission standards. It is environmentally sound and proven technology. Carbon Recovery Ltd can supply more information about TDF upon request.

Q Why do they have to be exported?

We export most materials collected through recycling. Much of our paper, cardboard, plastic, scrap metal, electronic waste, etc is exported to markets overseas. Tyres are no different. There are no New Zealand businesses (cement or otherwise) that have the infrastructure to accept Tyre Derived Fuel.

Q What if your council needs to clean up illegally dumped tyres?

Carbon Recovery Ltd can work with your council to recover tyres from any location i.e.: gullies, streams, vacant land, farms etc. We will ensure the tyres are collected, processed for recycling and exported to our markets overseas.

Paying for the collection programme:

Industry (tyre retailers, importers and sellers of tyres) has failed to put product stewardship programmes into place. Many tyre outlets now charge the public a disposal fee of around \$5 per passenger tyre. However this fee does not get paid to tyre collectors. Anyone can collect scrap tyres. This practice is not set to change in the near future. The Ministry for the Environment has not imposed a levy or advanced recycling fee on tyres. They have not become a Priority Product – which means nothing has changed when it comes to scrap tyres.

There is a cost to removing tyres from the environment to cover the cost of collecting, transporting and processing for recycling. Most transfer stations now charge fees to accept tyres. Ultimately the person disposing of the tyre must pay the fees.

- 1. Passenger Tyres (PTE):** It is recommended a recycling fee of \$6 be collected for PTE's
Passenger tyres also referred to as Passenger Tyre Equivalents in the industry are tyres approximately 9.5kg and under. This group of tyres are typically used on silage stacks. Although this practice should be stopped in New Zealand as we already have millions of tyres sitting on farms.
- 2. 4x4 Tyres:** Fees for light truck (4x4) tyres is recommended at \$9
These tyres are 50% larger in size to Passenger Tyre Equivalents (PTE) and require higher processing and transportation because of the increased size. Fewer tyres fit into a container and tyres can weigh around 15kgs.
- 3. Large truck Tyres:** This size includes tyres over 20kg and collection will be by negotiation
Large truck tyres have very little appeal for Agricultural use on silage stacks because of their large size and weight. They can be up to 5 times as heavy as passenger tyres. Tyres in this group are not normally taken to transfer stations in large volumes. Less than 100 would normally fit into a 20ft container.
- 4. Off the Road (OTR) Tyres:** Fees by negotiation, as these large tyres require special processing
Off the road tyres (OTR) come in several sizes and fees for these will be by negotiation based on size and weight.

With our powerful machines we can process and recycle any tyre. Carbon Recovery Ltd has a pricing schedule for this category of tyres depending on their size and weight. Approximately 10 tyres of this category will fit into a 20ft-shipping container.

How are fees collected at your transfer station, landfill or recycling centre?

Many transfer stations, recycling centres and landfills already charge fees for tyres. Fees must be collected as a gate/recycling fee prior to loading tyres into containers by the transfer station, landfill or recycling centre staff. Once a container is full the site manager will contact Carbon Recovery Ltd. The container will be collected and unloaded at our processing centre. Once Carbon Recovery Ltd confirms the contents of the container; a reimbursement will be made to the transfer station, landfill or recycling centre to cover their handling/administration charge.

What about the clean up of illegally dumped of tyres?

No problem. In the event of a special collection for illegally dumped tyres within your region or district, fees are determined by location, tyre size(s) and the number of tyres.



About Carbon Recovery Ltd

Carbon Recovery Ltd is a New Zealand owned business. The company has spent the past 10 years researching tyre-recycling practices around the world. Carbon Recovery Ltd has developed their business model based on worldwide 'best practice' for the recovery of scrap tyres.

All tyres collected by Carbon Recovery Ltd will be processed into tyre-derived fuel (TDF)

- All tyre derived fuel will be legally shipped off-shore
- Supply agreements for export of (TDF)

- Over 10 years of research and development
- Capacity to accept all sizes and volumes of tyres
- We support zero waste to landfill and product stewardship

Carbon Recovery hold memberships with the Waste Management Institute of New Zealand (WasteMINZ), and the Sustainable Business Network (SBN).

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LIMITED