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The Recycling Times



HADCO Group's Recycling Division Monthly E-Newsletter



Image Credit: [Northwestern University](#)

Transforming Used Tyres into New Products

HADCO's Recycling Division launched its new End-of-Life Tyre Recycling Facility in Freeport last month as a part of Ecoimpact Co. Limited's portfolio. This addition is as an integral part of our ongoing dedication to finding cutting-edge solutions to reduce the amount of waste produced in our country.

HADCO Recycling is excited to start collaborating with vehicle owners, garages and tyre shops to roll out its first nationwide collection drive that will herald the start of operations at our new End-of-Life Tyre Recycling Facility - an initiative made possible through a combination of internal company funding, and [grant funding](#) from the Inter-American Development Bank. All the used tyres collected will be recycled into raw materials for new rubber and steel wire-based products.

In this month's newsletter, we explain more about the three key raw materials extracted from used tyres during the recycling process, and the new products that can be created from them.

**“THROUGH OUR NEW
END-OF-LIFE
TYRE RECYCLING
FACILITY,
WE REMAIN
COMMITTED TO
CREATING INNOVATIVE
WAYS TO REDUCE
THE WASTE OUTPUT
OF OUR COUNTRY.”**

Kevin Whiteman -
Managing Director,
Recycling Division,
HADCO Group

The three key raw materials extracted from used tyres

Through a series of shredding and grinding processes, three raw materials are extracted and processed for export to be used to manufacture recycled rubber and steel wire-based products - these are Steel Wire, Rubber Crumbs and Rubber Powder.

Steel Wire

Steel wires run through the beads of a rubber tyre as it is used to maintain the tyre's shape and durability. However, when a tyre has come to the end of its life cycle, the wire may be extracted and melted down to be re-used in future tyres and other steel-based products.

Rubber Crumbs

After the wires are removed from the tyre, the pure rubber is shredded into crumbs and sold as a fuel known as TDF (Tyre Derived Fuel). Shredded rubber crumbs may seem like an unconventional source of fuel, but for some industries, it can be more cost-effective than coal.

According to [Global Recycling statistics](#), rubber crumbs can generate the same amount of energy as oil and produce 25%-50% more energy than coal. [The United States Environmental Protection Agency has even recognised](#) TDF as a viable alternative to fossil fuels and it is [mainly used](#) in cement kilns, pulp and paper mills and industrial boilers.

Rubber Powder

The rubber crumbs are further ground into a rubber powder. This is an extremely popular raw material used for AstroTurf football fields, as well as stadium running tracks, and rubber flooring in gymnasiums and children's playgrounds.

There is further use for rubber powder in what is known as 'modified asphalt,' or 'rubberised asphalt.' The addition of rubber in the asphalt mixture results in less cracking and overall strengthened durability in roads and pavements.



The steel wires extracted from used tyres are melted down and often used to make new steel wire of various sizes
Image Credit: [SWR](#), [MWS](#)



Rubber crumbs used in a cement factory in New Zealand
Image Credit: [Watch New Zealand Clip](#)

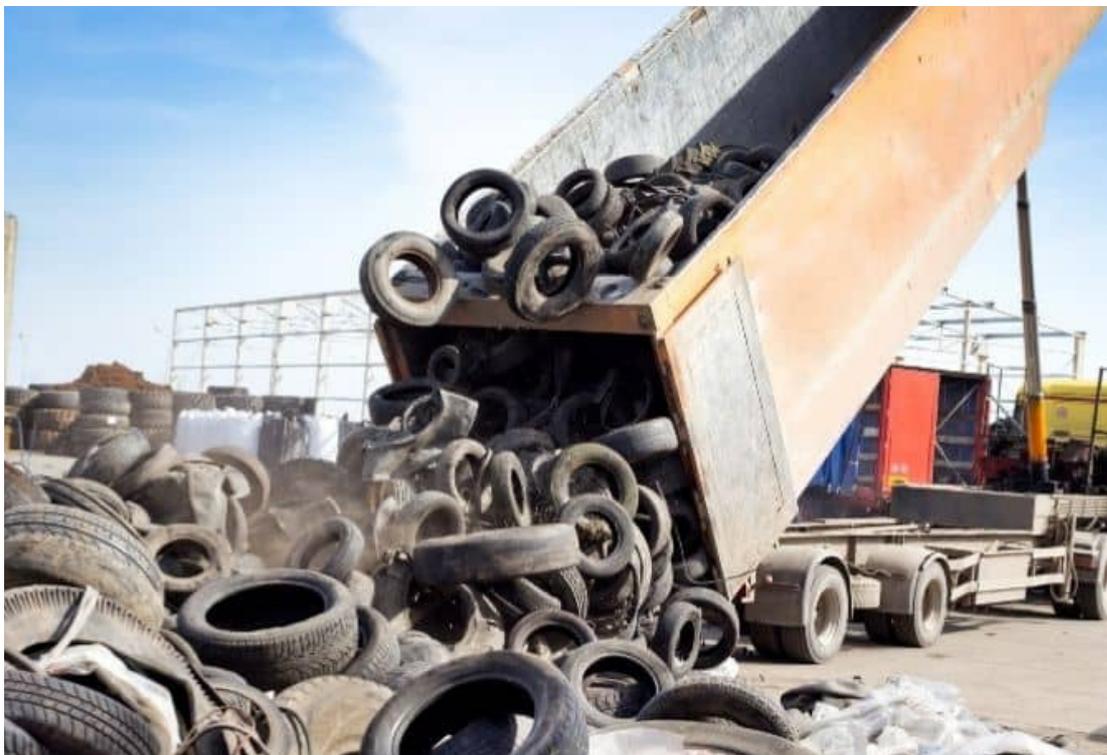


Road in the UK being repaved with Modified Asphalt
Image Credit: [Watch UK Clip](#)

Get Involved!

Do you own a vehicle, tyre shop or garage? If so, you can become a part of our ever-expanding partner network. Contact us at (868) 633-3609 or email us at ecoimpact.info@hadcoltd.com to find out more about how you can become a part of the solution to reducing waste and pollution in our nation.

Join us as we work together to change the way Trinidad and Tobago recycles used motor vehicle tyres.



Tyres being dumped into a tyre graveyard
Image Credit: [Conserve Energy Future](#)

**“WE ARE ALWAYS
LOOKING TO
EXPAND OUR
PARTNER NETWORK
OF USED TYRE
SUPPLIERS.
LET US TAKE THOSE
UNWANTED TYRES
OFF YOUR HANDS
AND INTO
OUR RECYCLING
FACILITY!”**

Marguerite Simon-Williams -
Operations Manager,
Ecoimpact Co. Limited,
HADCO Group

For more information on our other recycling services
visit us at www.hadcoltd.com/divisions/recycling/.

