



# Reducing the Environmental Footprint

**Tosca Reusable Solutions**



# Reducing packaging Reduces footprint

What is an environmental footprint?



*It's the impact you have on the environment due to your greenhouse gas emissions, use of water, recycling and disposal of waste, emissions of other gases, use of natural resources and impacts on the ecosystem (biodiversity)*

Recycling is often promoted as a good way to *reduce your environmental footprint* – that is **only PARTIALLY true!**

**REUSE THEN recycling is the only true way to reduce your footprint**

# Reduce your footprint with RTPs

By presenting a stronger, reusable alternative to single use packaging, RTPs improve the sustainability of a supply chain by reducing the environmental footprint



**Eliminates single-use packaging from the supply chain**



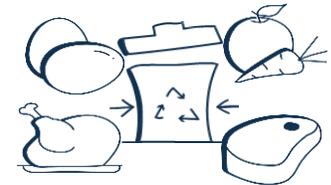
76,000 lbs of corrugated packaging is equivalent to 1,775 Boeing 737 planes

RPT = Reusable Transport Packaging



**60%**

**Reduction in Carbon Emissions using RPCs**



**50%**

**Reduction in Food Waste**



**100%**

**Of Tosca Reusables Recycled at End-of-Life**

**ZERO**

**EPR Fees in many jurisdictions**



**>30%**

**Recycled material content on average in our assets**

**50%**

**Less water used than corrugated boxes**

# Calculating Footprints

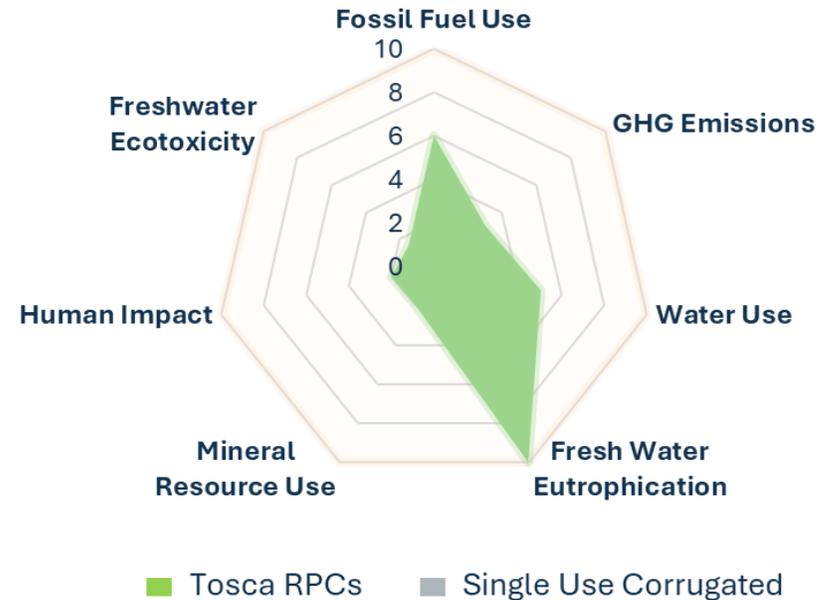
Working out how you impact the environment can be very complicated.

One way is to assess your operations or your products using a LifeCycle Assessment (LCA) approach.



We perform detailed, customer specific LCAs – the only provider to do so!

## Environmental Impact Analysis



We perform a detailed LCA on the actual packaging services we perform for you, to determine the environmental impacts from start to finish, cradle-to-grave: meaning from raw material extraction all the way through final disposal, including transportation of raw materials and through the life of the product and the impacts of using the product.

# Tosca LCAs

We perform 'comparative' LCAs.

Comparative LCAs compare the environmental impacts associated with the manufacture, transportation, use and end of life of our products vs an alternative form of packaging.

Our LCA Software is Ecoimpact: a Trayak product.

It is specifically designed to compare packaging types. It is ISO 14040 and 14044 conformant and endorsed by the Sustainable Packaging Coalition.



Fossil fuels used in the packaging, its manufacture, transport, recycling and disposal

Greenhouse Gas Emissions (CO<sub>2</sub>e)

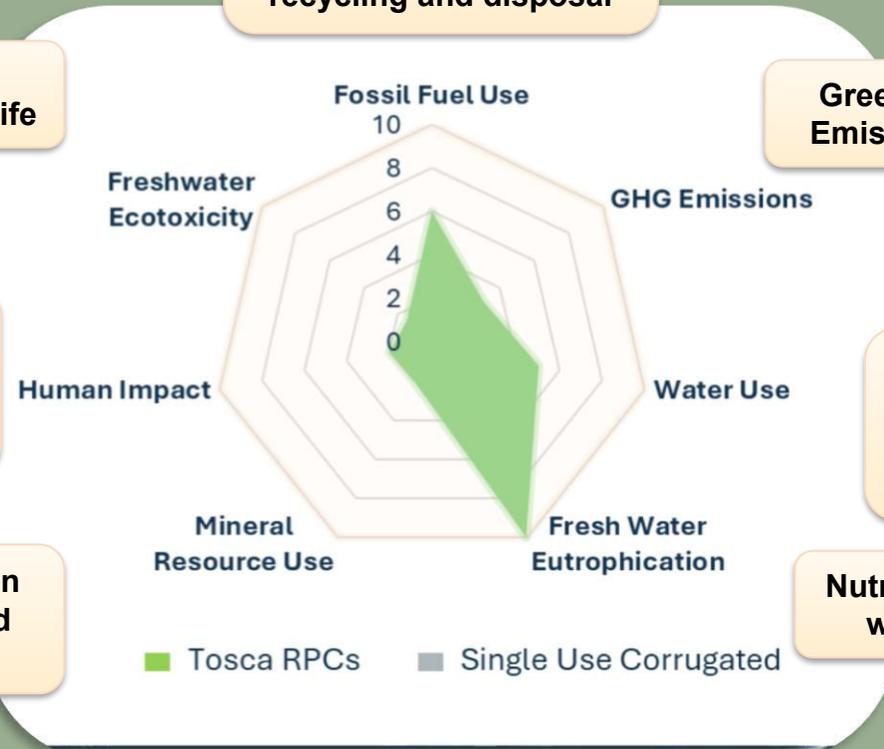
From water used in manufacture to water used in washing

Nutrient overload in water systems

Toxicity of the material to water life

Effects on human health from the materials used and processes involved

Use of minerals in manufacture and recycling



# Calculating Footprints

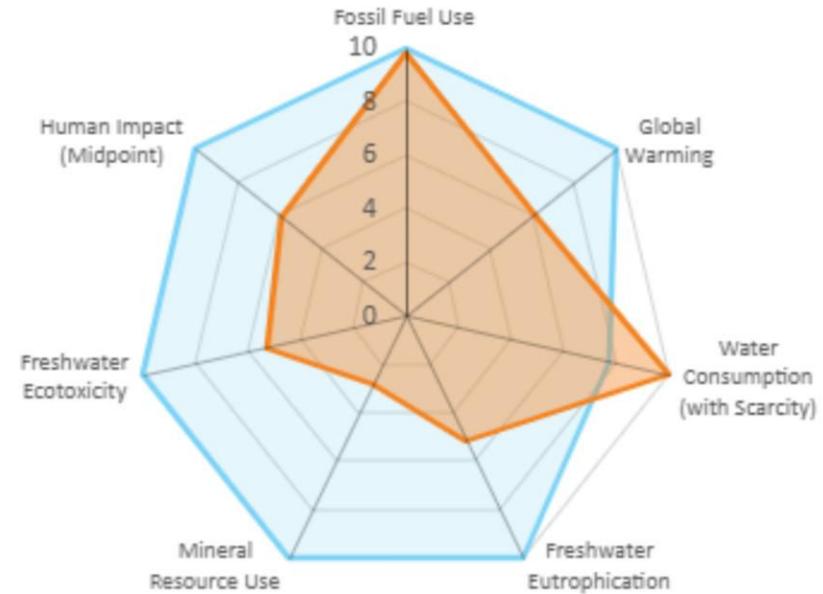
Footprints vary based on the weight of the asset, virgin material used, amount of recycled content, miles travelled and cube efficiency.

The more specific the data the more accurate the LCA.



LCAs are not all the same and you need to pick the right method for the purpose

■ Wooden pallet
 ■ Tosca pooled plastic pallet



An LCA evaluates the environmental impacts of a product from cradle-to-grave: meaning from raw material extraction all the way through final disposal, including transportation of raw materials and through the life of the product and the impacts of using the product.



# Sustainability Benefits



## Environmental Impact Analysis



## Impact reduction achieved using Tosca Pallets vs Single-use Wooden Pallets

**39%  
Reduction**



**118,037**  
Million miles driven yearly  
(passenger vehicle)

**100%  
Reduction**



**645**  
Trees

**2%  
Reduction**



**1**  
Home powered for a year

Comparative LifeCycle Assessment (LCA) using COMPASS by Trayak: Certified ISO compliant

Based on yearly volumes of 19,376 movements

# Our 2030 Goals



## Environmental Goals

- **Achieve Net Zero by 2050 and Scope 1, 2 and 3 emissions reduction by 42%**
- **100% of facilities with LED lights in largest-footprint areas** (wash areas, warehouse areas and corporate offices) operated by motion sensors
- **Electricity 100% renewably sourced** (direct or through agreements)
- Continual focus on **improving energy use intensity**
- **Replace fossil fuel-based energy use with renewable sourced energy** where practicable
- Continual focus **on improving water use intensity** (volume/ # items washed) in our wash centers from a 2024 baseline
- Actively **implement waste reduction, reuse, and recycling processes for largest waste streams** (by volume) arising at our facilities
- **100% of facilities (wash centers, service centers and offices) are certified as zero-waste-to-landfill**

# Learn more about Environmental Footprint Reduction



Agromark improves return on investment and reduces its carbon footprint with foldable bin from Tosca



Tosca's new partnership with Avery Dennison to save up to 800 tons of CO2 emissions from Avery Dennison's European supply chain annually



Innovating supply chains with sustainable plastic bulk bins



Limiting single-use plastics



Leading Italian supermarket retailer CRAI partners with Tosca to enhance customer store experience and sustainability initiatives



Optimizing your supply chain with collapsible bulk containers