



Water Use Surprising Facts

Tosca Reusable Solutions



Water From manufacture to use to recycling

Water is a finite resource and, unfortunately, available water for use is becoming scarcer.



Making sure your packaging uses the minimum amount of water possible from start to finish is important, especially if you have water use goals.

Reusable packaging results in significantly less water use than single-use

Water is used in extracting oil for the production of plastic

Water is needed for tree growth although this tends to be provided by normal precipitation

Only small volumes of water are used for RPC manufacture



Significant volumes of water are used to create virgin cardboard

Water is used to wash the RPCs. Tosca has reduced its water use intensity (gal/crate) by 10% over the last 2 years

Significant volumes of water are used to recycle cardboard waste

Little to no water is used during the regrind process for recycling of used assets

Reduce your water footprint with RPCs

Water is used at many different stages over the lifecycle of a packaging product: from generating and processing of the raw material to use of the packaging (including any washing) to recycling.

Water use goes beyond the packaging itself though. Water used to produce the contained product should also be considered. This is especially important when products are damaged and have to be replaced: if this happens then the additional volumes used to create the replaced product need to be taken into account.

We are working towards assessing water use associated with lost product as part of our improved LCA process.

50%

Reduction in
Food Waste

75%

Water used in
RPC washing
is recycled

100%

Of Tosca
Reusables
Recycled at
End-of-Life

All Tosca US
facilities are
100% certified



to ISO 22000
standards

Wash water
uses
detergents
and sanitizers
which are
easily treated
in wastewater
treatment
plants

50%

Less water
used than
corrugated
boxes

Calculating Water Use

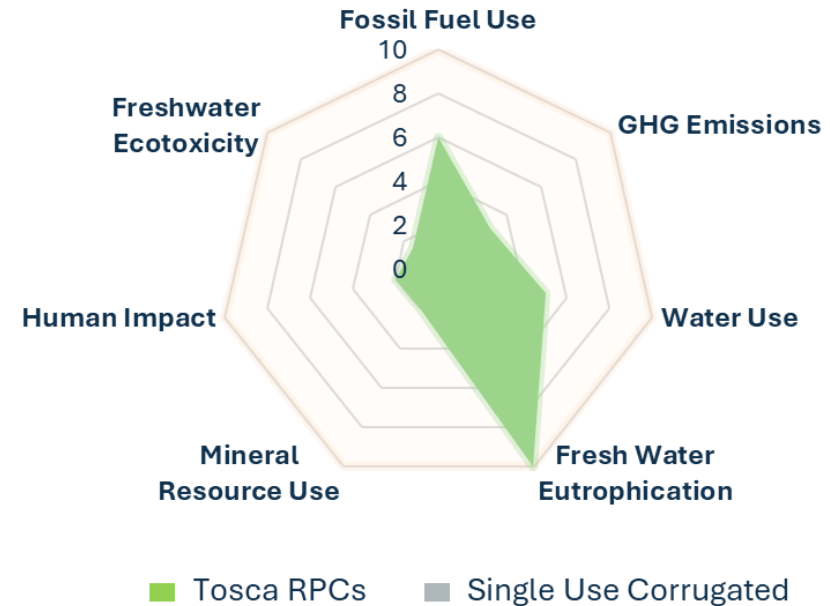
Working out how you impact the environment can be very complicated.

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 water use from start to finish, cradle-to-grave: meaning from raw material extraction all the way through final disposal, including processing 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 (CO₂e)

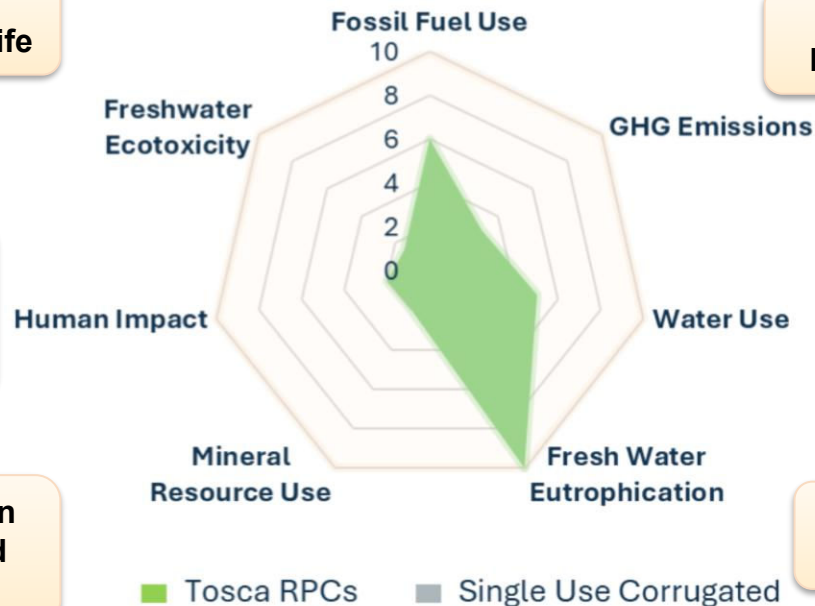
From water used in manufacture to water used in washing

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





2025 Sustainability Certificate

Together we are revolutionizing the flow of goods through the supply chain, eliminating waste at every turn

By using Tosca's RPCs compared to single-use Corrugated boxes you have achieved the following reductions^....

and saved the equivalent of....



Global Head of Sustainability

An example of our annual sustainability certificate with data you can use for your Annual Sustainability Report or internal communications

^Environmental savings are calculated using the EcolImpact LCA software and activity related data held by Tosca

*based on 50% recycled content of corrugated boxes



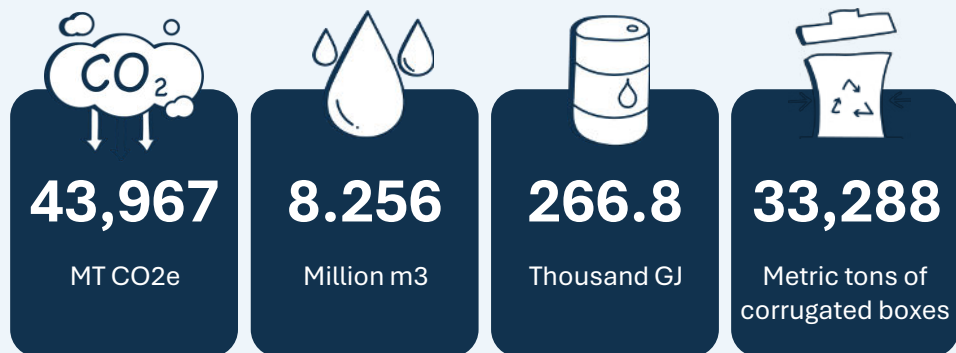
Sustainability Report

Together we are revolutionizing the flow of goods through the supply chain, eliminating waste at every turn

An example of our annual sustainability report with data you can use for your Reporting

Your scope 3 GHG emissions[^] associated with Tosca's services = **8,897 metric tons CO₂e**
VS
GHG emissions[^] you would have emitted using corrugated boxes = **52,864 metric tons CO₂e**

In partnership, we have saved...



Assets within Tosca's control are 100% recycled at end of life

50% Average recycled content in assets
80 Average # turns made by the assets before end-of-life

[^]Environmental savings are calculated using the EcoImpact LCA software and activity related data held by Tosca

Global Head of Sustainability

50% less water is used over the life of a plastic RPC vs single-use packaging

Lower water demand reduces potential impacts from climate change on water availability and quality

Low water demand also reduces possible business continuity problems in water stressed areas

Benefits of RPCs **On Total Cost of** **Packaging**

Water use is an element of the TCOOP which is often overlooked.

Our 2030 Goals

Water Use

- Continual focus on **improving water use intensity** (volume/ # items washed) in our wash centers from a 2024 baseline

