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PACKAGING FOR  
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# The Carbon Footprint of Carton Packaging 2023

A study carried out by RISE (Research Institutes of Sweden) Bioeconomy and Health Unit for Pro Carton tracked both the cradle-to-grave and cradle-to-gate carbon impact of carton from January to December 2021.



# The Carbon Footprint of Carton Packaging 2023

## Headline Results

The European cartonboard and folding carton industry has succeeded in reducing its carbon footprint by 24% since 2018.

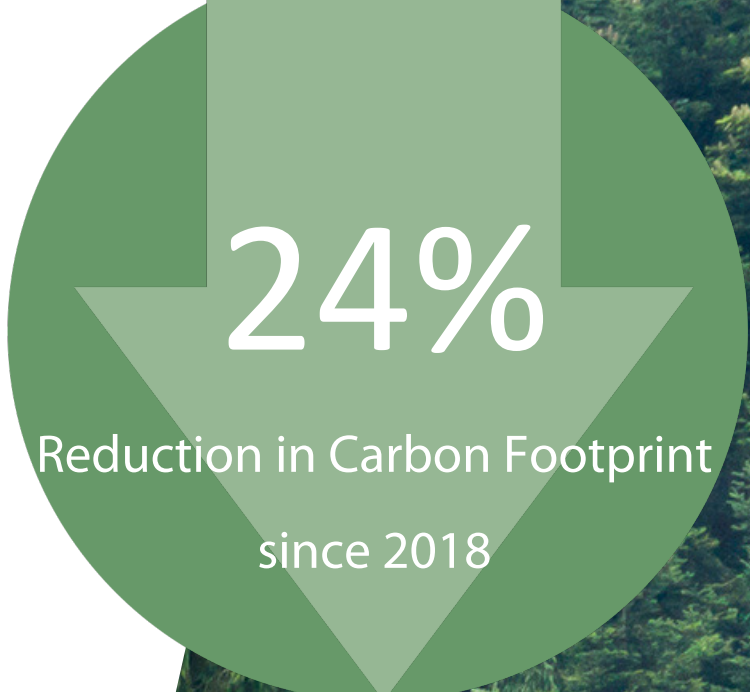
The newly measured European industry average carbon footprint per tonnes of printed cartons is now at:



249 kgCO<sub>2</sub>e cradle-to-grave



148 kgCO<sub>2</sub>e cradle-to-gate



The findings demonstrate that carton packaging not only meets the demands of a bio-based and circular economy but has a key role to play in the transition to a low carbon economy.

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## Headline Results

Cradle-to-grave carbon footprint of cartons, kgCO<sub>2</sub>e per tonne of cartons:

	2021	2018
<b>Fossil GHG emissions</b>	852 kgCO <sub>2</sub> e	1,025 kgCO <sub>2</sub> e
<b>Biogenic GHG emissions</b>	1,014 kgCO <sub>2</sub> e	1,001 kgCO <sub>2</sub> e
<b>GHG Removals</b>	-1,626 kgCO <sub>2</sub> e	-1,709 kgCO <sub>2</sub> e
<b>Direct land-use</b>	9 kgCO <sub>2</sub> e	9 kgCO <sub>2</sub> e
<b>Total</b>	249 kgCO <sub>2</sub> e	326 kgCO <sub>2</sub> e



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Today.**

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