

2024

Executive Summary of Carbon Footprint



AYRTON

Ayrton is committed, at an organizational level, to continually improve how we approach sustainability.

In August 2025, we completed our 2024 Carbon Footprint Report with the carbon management platform Greenly, marking the fourth consecutive year of annual carbon footprint accounting.

► **Reporting period**

1st January 2024 to 31st December 2024.

► **Measurement scope**

All emissions under the operational control of Ayrton's Headquarters in France and the office in Germany, generated in and outside the country of operation, covering Scope 1, 2 & 3.

► **Accounting methodology**

Official methodology of the French Ministry of Ecological Transition, with audit-ready report.

► **Project calendar**

Launched in April 2025 and finalized in August 2025



GENERAL OVERVIEW

44.9k tCO_{2e}

Ayrton's total carbon emissions in 2024

14%

Net decrease of total emissions compared to 2023

71.9%

Energy consumption of product sold in the usage phase stands as the most significant category of total emissions

11%

Emissions from air freight, a dominant source contributing over 98% of total freight emissions

43.3k tCO_{2e}

Carbon emissions from the life cycle of Ayrton's products

CARBON FOOTPRINT BY CATEGORY

19 tCO_{2e}

Onsite emissions generated directly by Ayrton, such as diesel combustion and refrigerant leakage



SCOPE 1

27 tCO_{2e}

Indirect emissions from purchased electricity, heat or steam



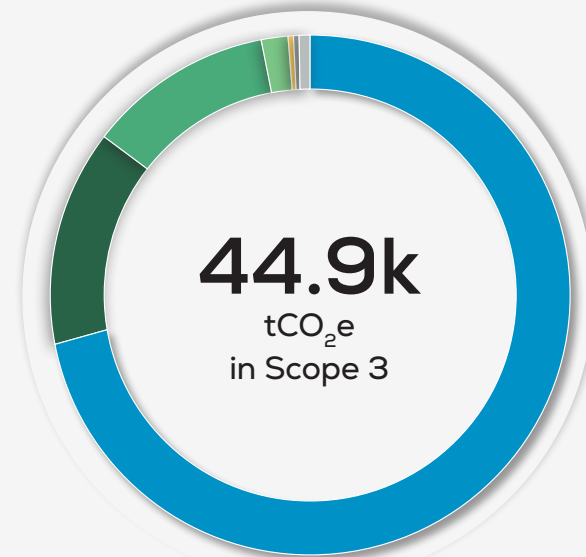
SCOPE 2

44.9k tCO_{2e}

Indirect emissions across the organization's upstream and downstream value chain, including purchased good and services, use of sold products, transportation and distribution, etc.



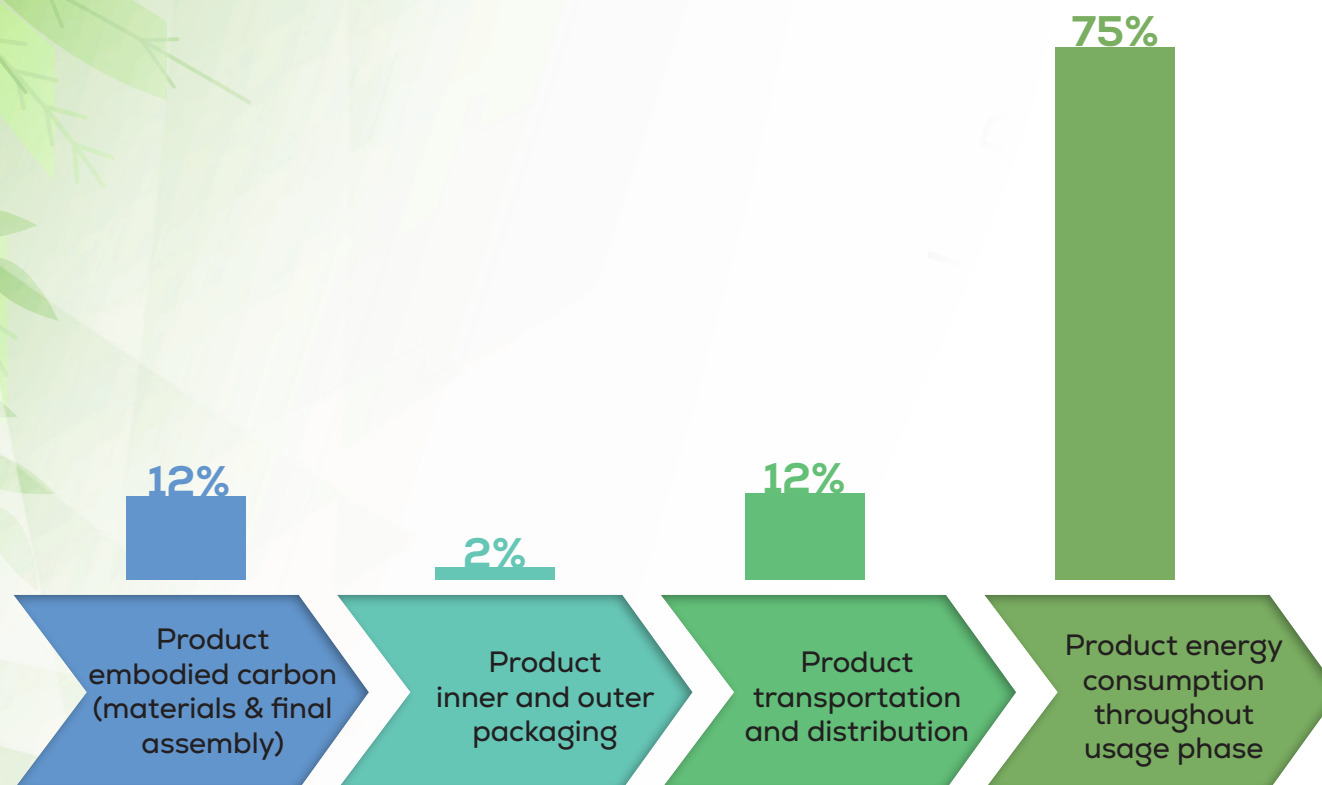
SCOPE 3



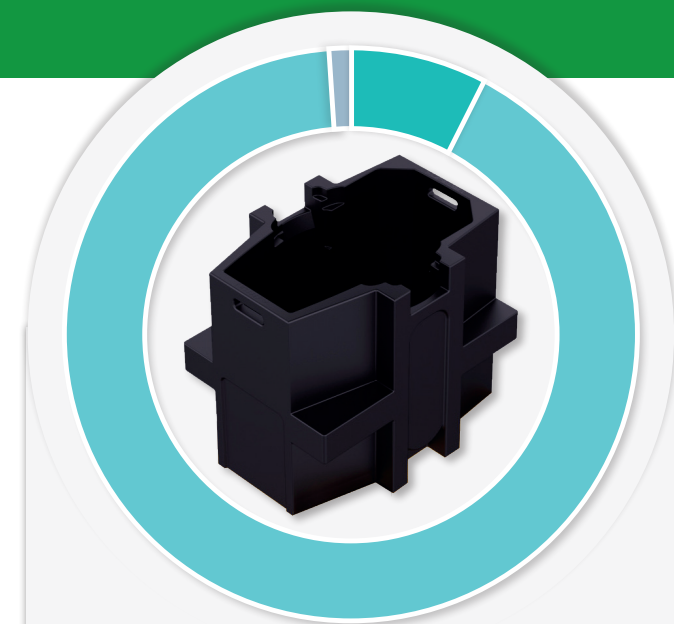
Breakdown of SCOPE 3

- **71.9%** Use of product sold
- **13.5%** Product purchase
- **11.7%** Freight
- **1.6%** Travel and Commute
- **0.3%** Activities and events
- **0.3%** Service purchase
- **0.7%** Other

PRODUCT EMBODIED CARBON & OPERATIONAL CARBON



- Emissions factors are generic data from recognized databases including ecoinvent and ADEME Base Carbone etc.
- Product operational carbon emissions are calculated based on estimated usage hours, average power output, and the 2024 electricity emission factor of the country where the product is sold.

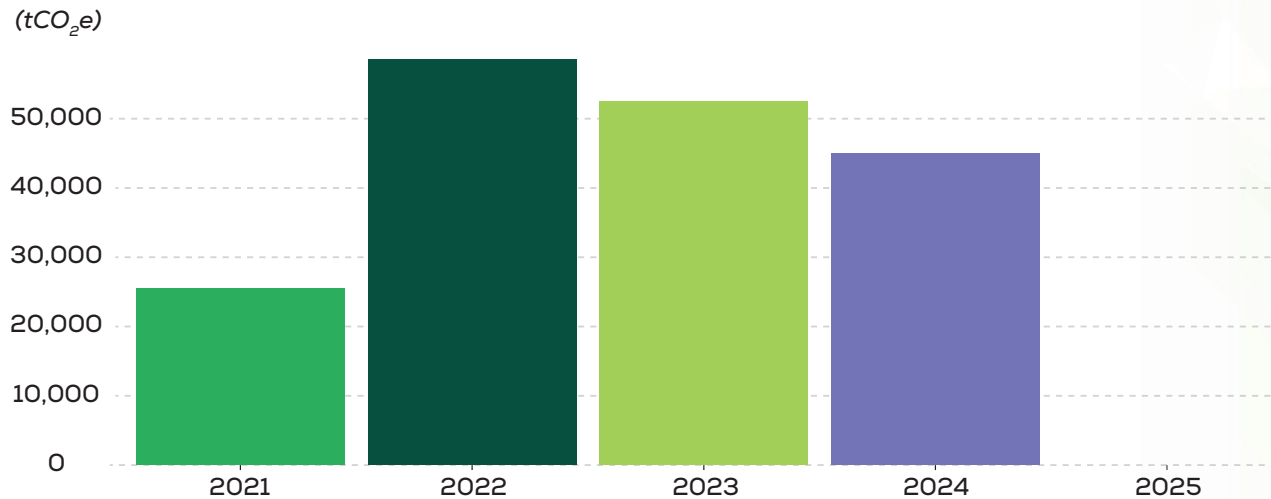


- **1%** EPE foam
- **7%** Cardboard
- **91%** PU insert

PU inserts, though responsible for 91% of packaging emissions, are durable and reusable, offering a longer lifespan that supports waste reduction and product protection.

EMISSION EVOLUTION

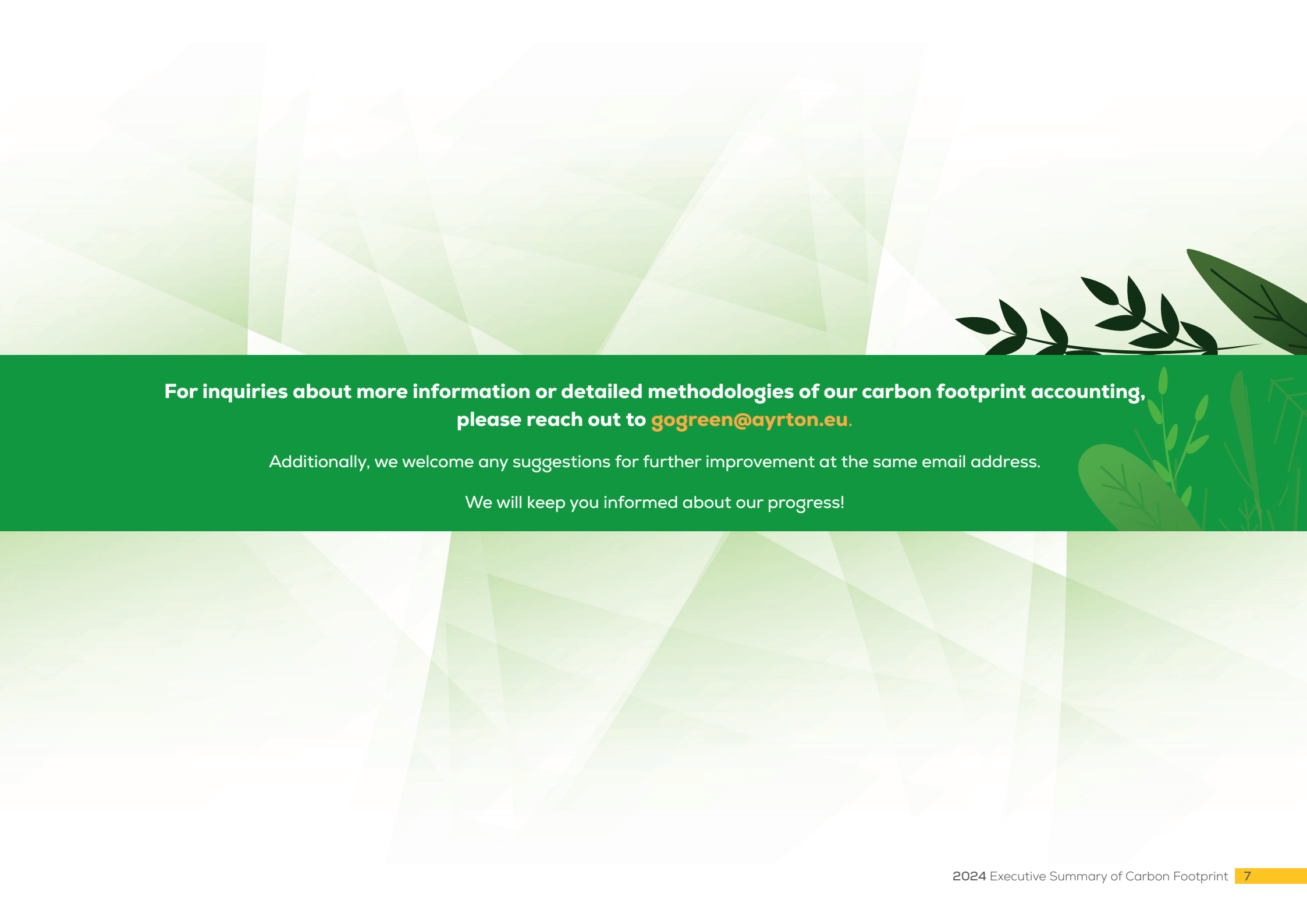
1 Year-over-Year Evolution



2 In Comparison to 2023

From 2023 to 2024, Ayrton's emission intensity per revenue decreased by 18%, showing our potential in enhancing business performance while managing carbon impact.

The most significant emissions reduction comes from Scope 3: Use of product sold. It is primarily driven by improvements in the electricity mix across key markets. This reflects a broader, external trend of structural decarbonization in global energy systems. Although it's an area where we have limited direct control, we can expect a continued positive impact on our carbon footprint from this trend.



For inquiries about more information or detailed methodologies of our carbon footprint accounting, please reach out to gogreen@ayrton.eu.

Additionally, we welcome any suggestions for further improvement at the same email address.

We will keep you informed about our progress!



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