

2025
Executive Summary of Carbon Footprint

AYRTON

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

In June 2026, Ayrton completed its fifth consecutive annual carbon footprint assessment in partnership with Greenly. More than a yearly reporting exercise, this ongoing commitment provides a consistent basis for tracking progress and identifying opportunities to reduce our environmental impact.

Reporting period

1st January 2025 to 31st December 2025.

Measurement scope

All emissions under AYRTON's operational control, 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 March 2026 and finalized in June 2026.



GENERAL OVERVIEW

38.9k tCO_{2e}

Ayrton's total carbon emissions in 2025

-10%

Net decrease of total emissions compared to 2024

10%

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

73%

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

37.4k tCO_{2e}

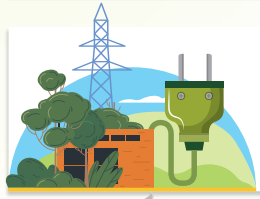
Carbon emissions from the life cycle of Ayrton's products

CARBON FOOTPRINT BY CATEGORY



SCOPE 1 › **23 tCO_{2e}**

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



SCOPE 2 › **16 tCO_{2e}**

Indirect emissions from purchased electricity, heat or steam

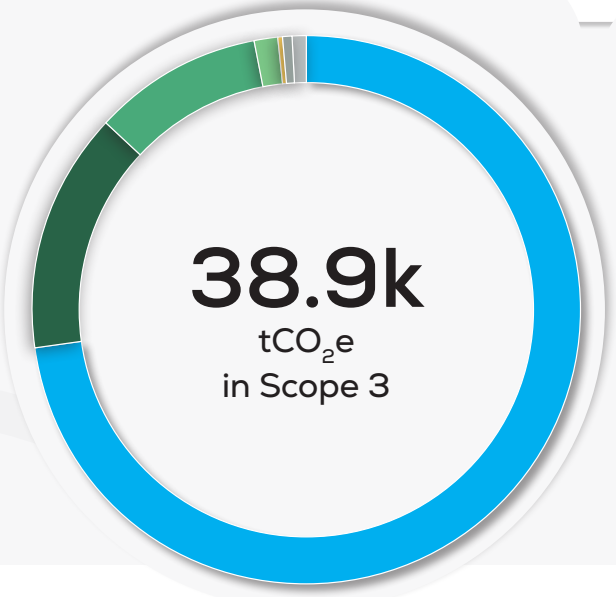


SCOPE 3 › **38.9k tCO_{2e}**

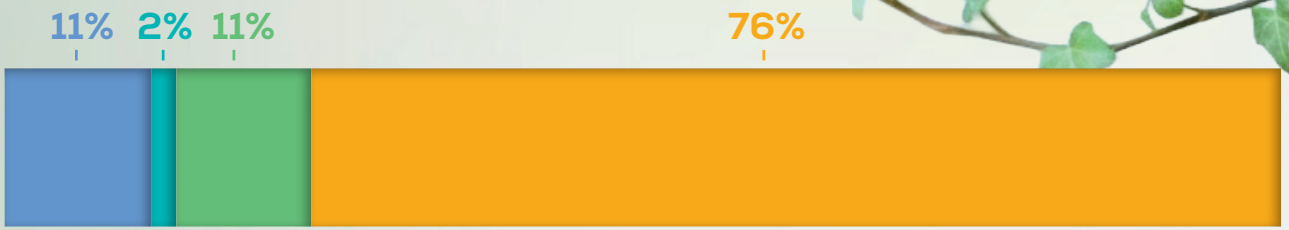
Indirect emissions across the organization's upstream and downstream value chain, including purchased good and services, use of sold products, transportation and distribution, etc.

Breakdown of SCOPE 3

- **73%** Use of product sold
- **14%** Product purchase
- **10%** Freight
- **1.4%** Travel and Commute
- **0.4%** Activities and events
- **0.4%** Assets
- **0.8%** Other



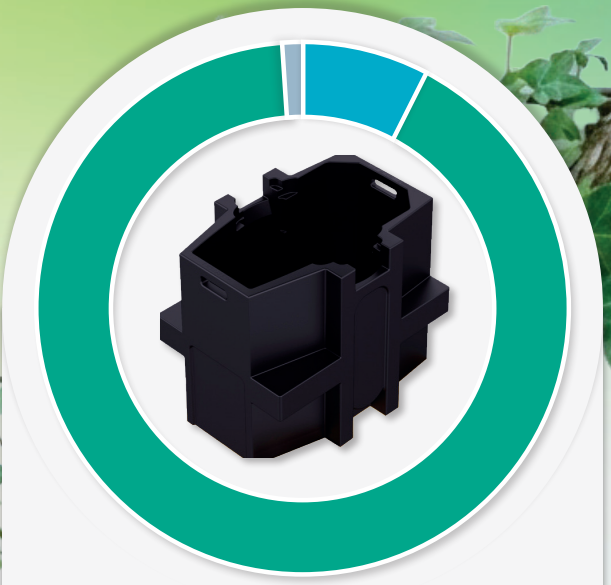
PRODUCT EMBODIED CARBON & OPERATIONAL CARBON



- **Product embodied carbon (materials & final assembly)**

  Emissions factors are generic data from recognized databases including ecoinvent and ADEME Base Carbone etc.
- **Product inner and outer packaging**
- **Product transportation and distribution**
- **Product energy consumption throughout usage phase**

  Product operational carbon emissions are calculated based on estimated usage hours, average power output, and the 2025 edition of the emission factors datasets published by International Energy Agency.

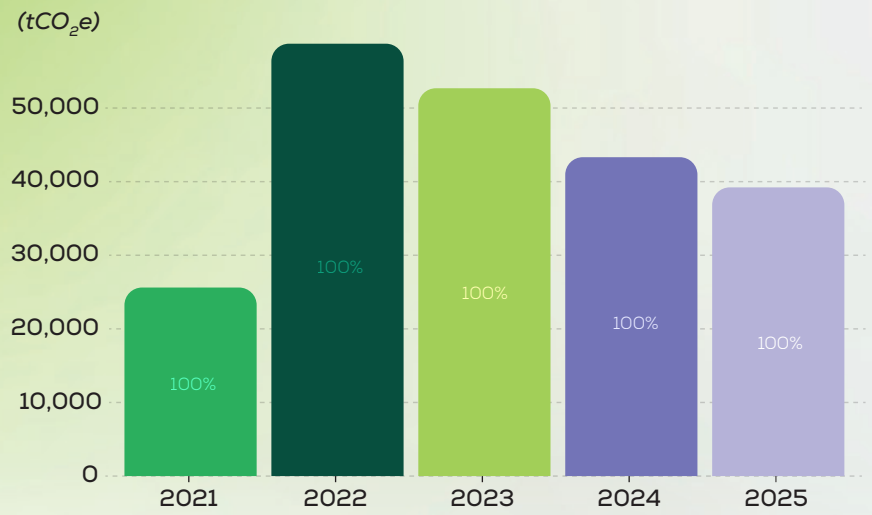


- **1%** EPE foam
- **11%** Cardboard
- **88%** PU insert

PU inserts, though responsible for 88% 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

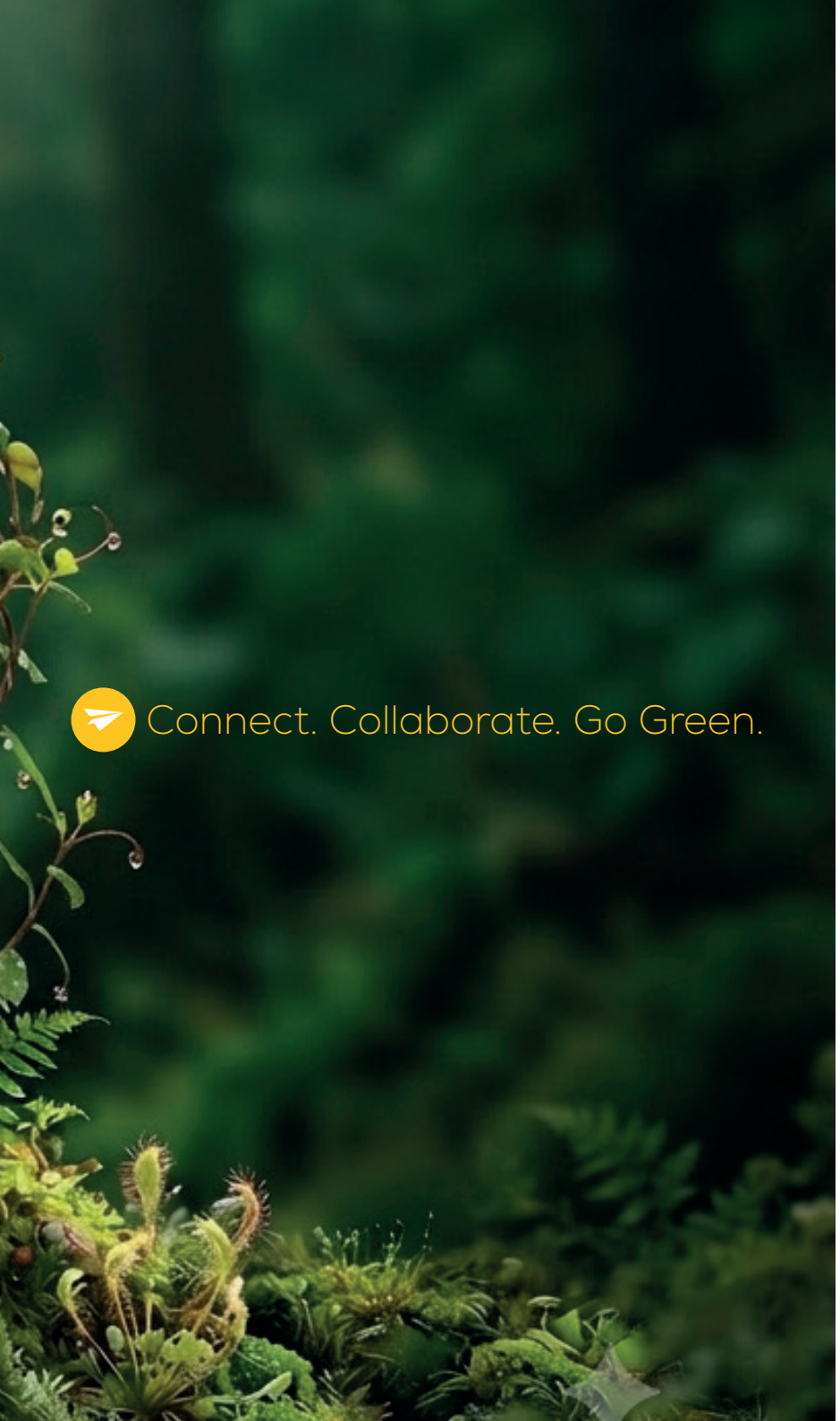


2 In comparison to 2024

From 2024 to 2025, Ayrton's total greenhouse gas emissions decreased by 10%, largely in line with the revenue and sales volumes. While this resulted in a reduction in absolute emissions, emissions intensity per revenue increased slightly, highlighting that long-term decarbonization will depend on reducing the carbon footprint of our products and operations rather than fluctuations in business activity.

The use phase of our lighting products remains the largest contributor to our footprint, accounting for 73% of total emissions, followed by purchased goods and freight. Continued improvements in emissions data, including expanded embodied carbon analysis of lighting products, enable us to better understand the hotspots and support future eco-design initiatives.





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!


AYRTON