

html

carboncalpcf.com

Product Carbon Footprint Dashboard

Advanced IoT Sensor (fwkijeeoyw)

Total PCF: 53.653 kg CO₂e per unit

Total Footprint

53.653 kg CO₂e

Primary Emission Scope

Scope 3 (84.86%)

Top Emission Hotspot

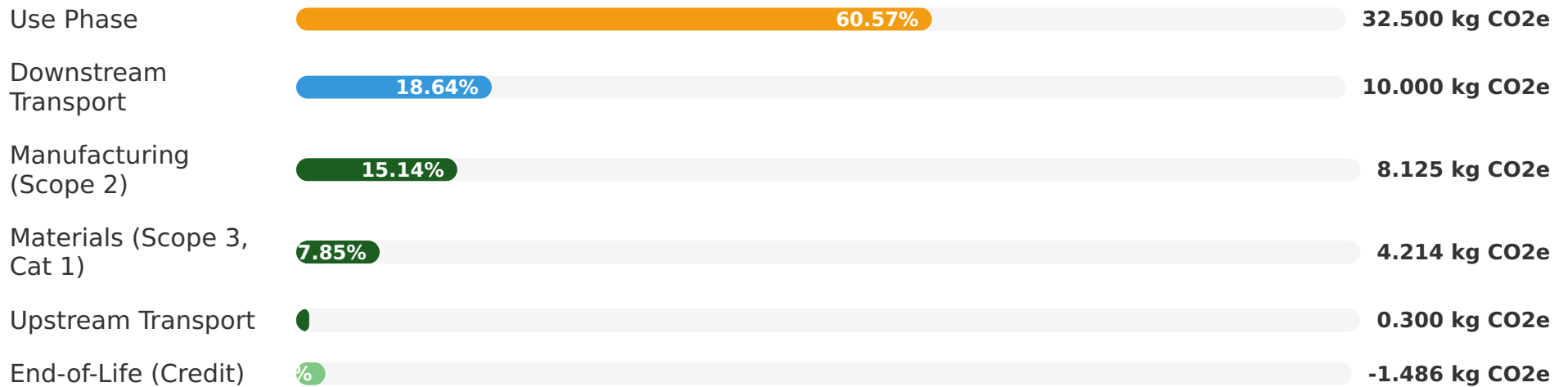
Use Phase (60.57%)

Production Country

China

Key Carbon Hotspots & Breakdown

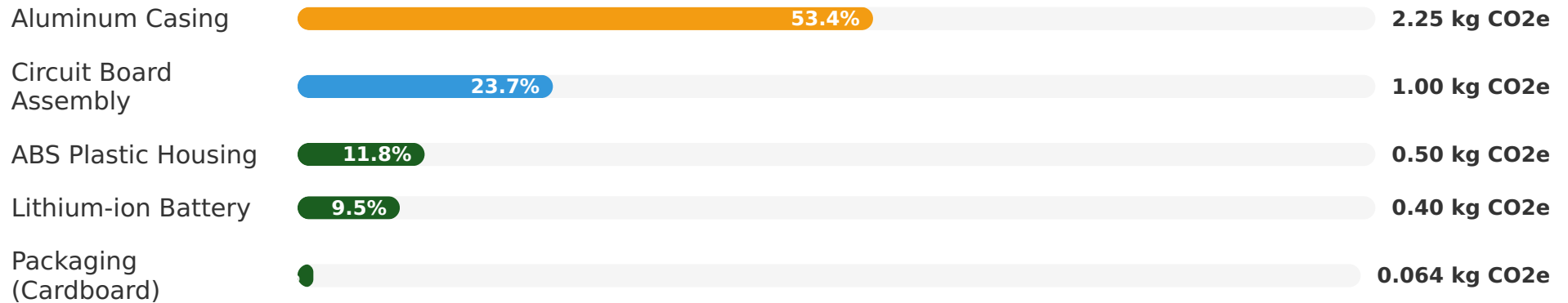
Lifecycle Stage Breakdown



Key Highlights

- The **Use Phase** is the most significant contributor, accounting for over 60% of the total carbon footprint.
- **Downstream Transportation & Distribution**, particularly last-mile delivery, is a substantial hotspot.
- **Manufacturing (Scope 2)** emissions are notable due to the grid mix in the production country.

Material Composition Carbon Impact (Relative)



Recommended Actions

- ****Enhance Use Phase Efficiency:**** Reduce product energy consumption during its operational life through R&D.
- ****Optimize Logistics:**** Explore low-carbon modes and routes for downstream and last-mile delivery.
- ****Increase Renewable Energy:**** Further increase renewable energy sourcing for manufacturing operations in China.
- ****Material Innovation:**** Investigate lower-carbon alternatives for high-impact components like aluminum.
- ****Strengthen Circularity:**** Continue developing and promoting product take-back and recycling programs.