mhjdmqgrzu Carbon Footprint Dashboard

Product Carbon Footprint Analysis for **hmzkwewgke**

TOTAL PCF (per unit)

31.848 kgCO2e

Total Footprint

31.848 kgCO2e

Carbon Intensity

35.386 kgCO2e/kg

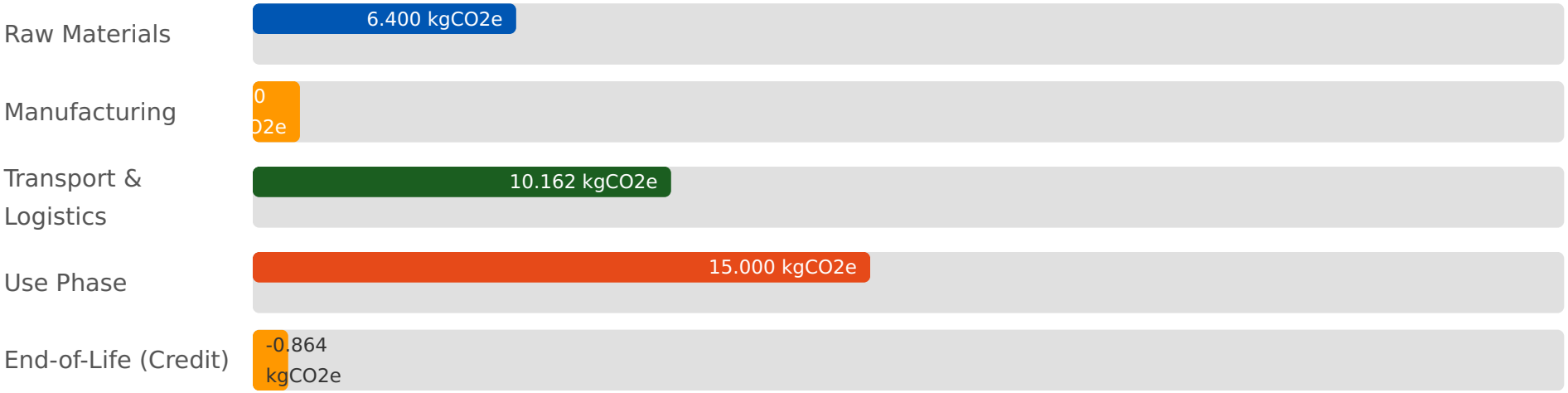
Top Material Hotspot

Aluminum Casing

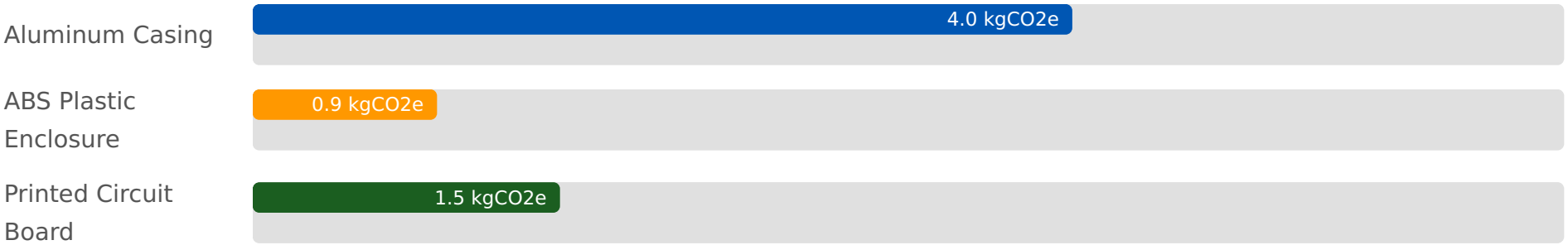
Primary Emission Scope

Scope 3

Lifecycle Stage Breakdown



Material Carbon Impact (Raw Material Acquisition)



Highlights & Key Insights

The **Use Phase** is the largest contributor to the total carbon footprint, accounting for 15.000 kgCO2e (47.10%).

Transport & Logistics also represents a significant hotspot at 10.162 kgCO2e (31.91%), mainly driven by last-mile delivery.

Raw Material Acquisition contributes 6.400 kgCO2e (20.09%), with Aluminum Casing being the most impactful material.

A commendable **60% renewable energy usage** in manufacturing helps reduce Scope 2 emissions.

The product benefits from a **70% recyclability rate** and existing circular/take-back programs, generating an End-of-Life credit.

Action Plan: How to Reduce Carbon Footprint

Optimize Use Phase Efficiency: Design more energy-efficient components and provide guidance to users on sustainable usage to reduce the largest emission hotspot.

Streamline Logistics: Explore lower-carbon freight options (e.g., rail/sea) for inbound/outbound transport and investigate electric vehicles for last-mile delivery.

Supplier Engagement for Materials: Collaborate with suppliers for lower-carbon materials and processes, requesting product-specific emission data for better accuracy.

Enhance Circularity: Actively promote product return and refurbishment programs, and explore advanced recycling technologies to exceed the current 70% recyclability.

Increase Renewable Energy Sourcing: Aim for 100% renewable energy in manufacturing operations in China through direct purchasing or on-site generation.

Data Refinement: Continuously improve primary data collection, especially for hard-to-measure Scope 3 categories, for more targeted reduction strategies.