

Product Carbon Footprint (PCF)

Dashboard

Product: zuowjkmdxg | **Standard:** GHG Protocol | **Boundary:** factory_gate

14.17

kgCO₂e

Total Product Carbon Footprint

14.17 kgCO₂e

Total Footprint (per unit)

14.17 kgCO₂e/kg

Carbon Intensity (approx.)

Aluminum Casing

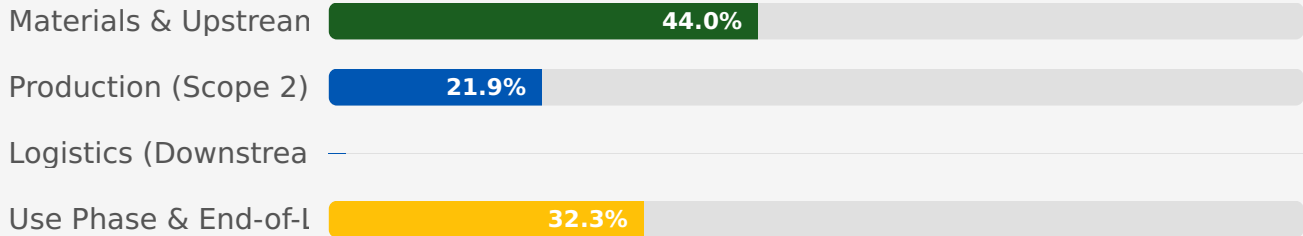
Top Material Hotspot

Scope 3 (Materials)

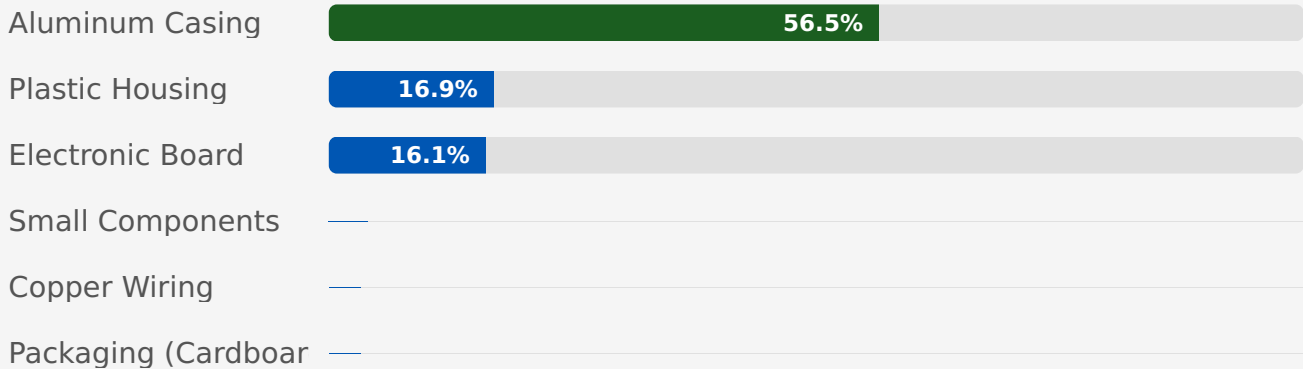
Primary Emission Scope

Detailed Emissions Breakdown

Lifecycle Stage Contribution



Material Carbon Impact Breakdown



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Key Carbon Hotspots

- **Materials Acquisition & Processing (43.8%):** Dominant contributor, highlighting the impact of raw material extraction and processing, especially

Recommendations for Reduction

- **Use Phase (32.0%):** Significant emissions stem from the product's energy consumption during its 5-year operational lifespan. **1. Material Optimization:** Focus on lighter weight materials, increased recycled content, and design for modularity to lower raw material impact.
- **Manufacturing (Scope 2) (21.9%):** Purchased electricity for production in China remains a major hotspot despite 50% renewable energy use. **2. Energy Efficiency in Use:** Implement design improvements to drastically reduce energy consumption during the product's operational lifetime.