carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: eduhfpfkzs | **Company:** udvzpfyzzp | **Consultant:** dejodwyjdz

23.591 kgCO2e / unit

Comprehensive cradle-to-grave analysis for 1.0 unit, adhering to GHG Protocol.

TOTAL FOOTPRINT

23.591

kgCO2e / unit

CARBON INTENSITY

23.591

kgCO2e / unit

TOP MATERIAL HOTSPOT

Circuit Board

1.50 kgCO2e

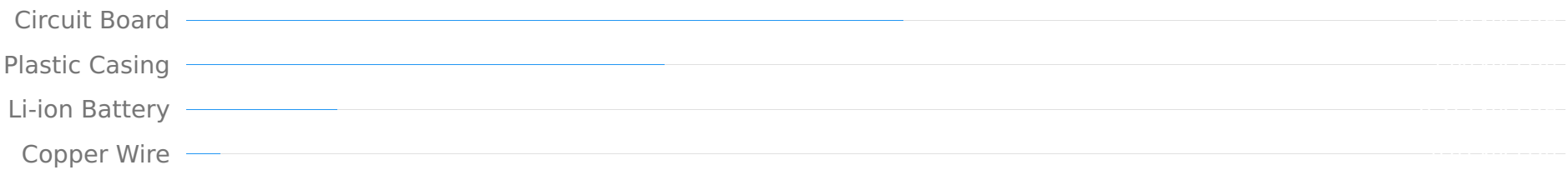
PRIMARY EMISSION SCOPE

Scope 3

98.5% of total

Lifecycle Stage Breakdown

Material Carbon Impact



Highlights & Key Insights

- The **Use Phase dominates** the product's carbon footprint (approx. 84.8%), driven by energy consumption over its 5-year lifespan.
- **Raw Material Acquisition** is the second largest contributor (approx. 12.2%), with Circuit Board and Plastic Casing being significant hotspots.
- This analysis achieved robust **Scope 3 emissions coverage (approx. 98.5%)**, aligning with 2026 GHG Protocol requirements.

Recommendations for GHG Reduction

- **Enhance Use Phase Efficiency:** Focus on designing 'eduhfpfkzs' for maximum energy efficiency during its operational lifespan through component optimization.
- **Decarbonize Supply Chain:** Engage with material suppliers to procure lower-carbon plastics, electronics, batteries, and metals, and explore regional sourcing.
- **Increase Renewable Energy in Production:** Further increase renewable energy usage beyond 75% at the China manufacturing facility to reduce Scope 2 emissions.
- **Strengthen Circular Economy:** Expand take-back programs and invest in design for disassembly to boost actual recycling rates beyond 60% and reduce virgin material reliance.

Data based on Product Carbon Footprint Analysis Report for eduhfpfkzs by udvzpfyzzp, Generated: May 22, 2026.

Disclaimer: This dashboard relies on the provided report data, including illustrative emission factors and assumptions. Primary data verification is recommended.