

Product Carbon Footprint for nqxqpyzhjs

Standard: GHG Protocol | **Boundary:** factory_gate | **Country:** China

carboncalcpcf.com

64.32 kg CO₂e

Total Product Footprint (per unit)

Total Footprint

64.32 kg CO₂e

Baseline for 1.0 unit of nqxqpyzhjs.

Carbon Intensity

64.32 kg CO₂e/unit

Emissions per functional unit.

Top Emission Hotspot

Use Phase

Largest contributor to total emissions.

Primary Emission Scope

Scope 3

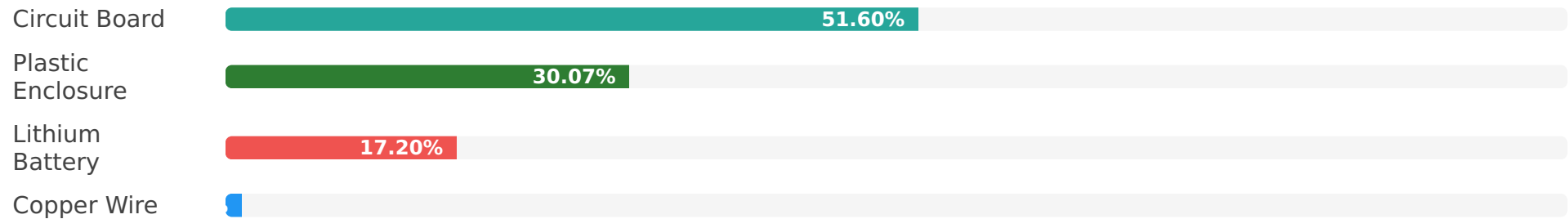
Dominant emissions occur in the value chain.

Lifecycle Stage Breakdown



*End-of-Life shows a net carbon benefit (-0.05 kg CO₂e) due to recycling initiatives.

Material Carbon Impact



*Breakdown of the 2.128 kg CO₂e illustrative total material carbon.

Highlights & Key Insights

- The **Use Phase** (energy consumption during the product's lifespan) is the predominant carbon hotspot, contributing over 70% of the total footprint.
- **Materials acquisition** and **outbound logistics** also represent significant emission sources within the product's value chain.
- The product actively benefits from **End-of-Life programs**, demonstrating a net carbon reduction due to effective recycling and recovery initiatives.

Recommendations for Reduction

- **Use Phase Optimization:** Prioritize product design for lower energy consumption and encourage renewable energy adoption by end-users.
- **Supply Chain Decarbonization:** Collaborate with suppliers to procure low-carbon materials and optimize transportation with greener modes.
- **Enhance Circularity:** Expand and promote take-back schemes to maximize the recyclability and recovery of materials.
- **Boost Renewable Energy:** Increase the percentage of renewable energy sourced for production facilities to significantly reduce Scope 2 emissions.