Product Carbon Footprint for ksjyhhwmpu

Generated Date: May 22, 2026 | carboncalcpcf.com

7.16 kg CO2e/unit

Key Metrics

Total Footprint

7.16 kg CO2e

Carbon Intensity

11.93 kg CO2e/kg

Top Material Hotspot

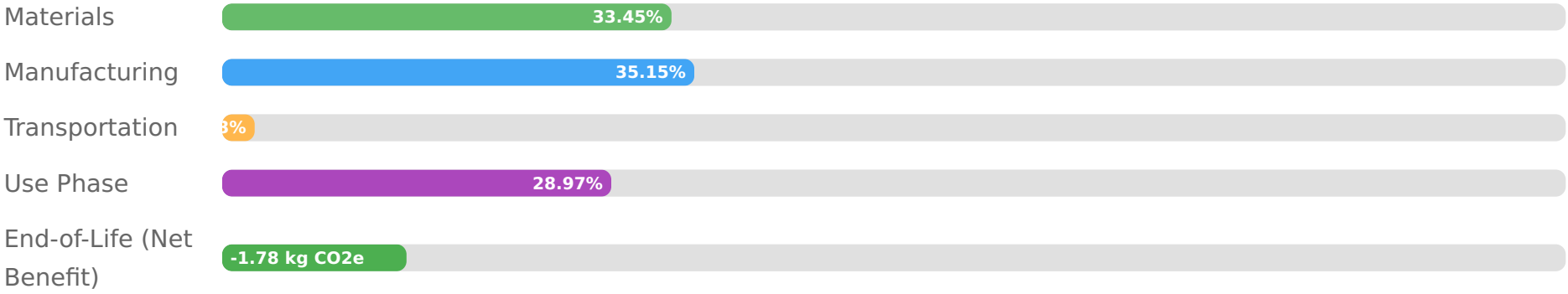
PCB (1.25 kg CO2e)

Primary Emission Scope

Scope 3 (8.40 kg CO2e)

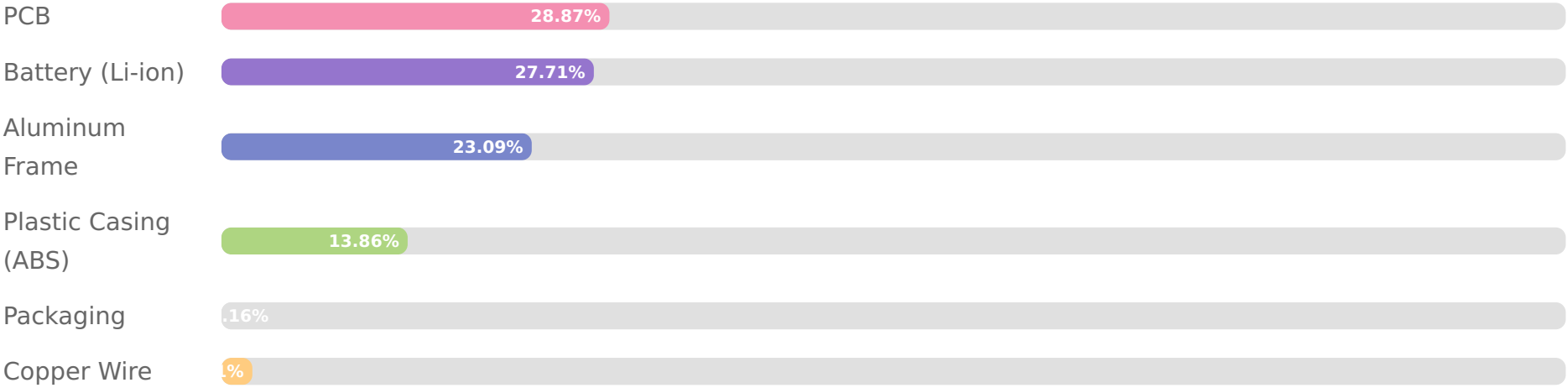
Emissions Breakdown

Lifecycle Stage Contributions



Note: End-of-Life shows a net benefit due to recycling, offsetting initial material production emissions.

Material Carbon Impact



Based on total material emissions (4.33 kg CO2e).

Highlights & Hotspots

- Manufacturing energy (Scope 2 electricity) contributes significantly, representing 35.15% of positive emissions.
- Materials acquisition (Scope 3) is a major factor, with PCB, Aluminum, and Li-ion battery being high-impact components.
- The product's energy consumption during the use phase (Scope 3) accounts for nearly 29% of positive emissions.

How to Reduce Footprint

1. **Decarbonize Manufacturing:** Accelerate transition to 100% renewable energy for production facilities.
2. **Sustainable Sourcing:** Prioritize lower-carbon materials and increase recycled content for high-impact components.
3. **Enhance Energy Efficiency:** Redesign the product to minimize energy consumption during its operational life.
4. **Circular Economy:** Expand take-back and recycling programs to maximize material recovery and extend product lifespan.