Carbon Footprint Dashboard

Product: **mettnknygl** by pmkyldykhr

carboncalcpcf.com

Total Product Carbon Footprint

86.85 kg CO2e

Functional Unit

1.0 Unit

Carbon Intensity

68.93 kg CO2e/kg

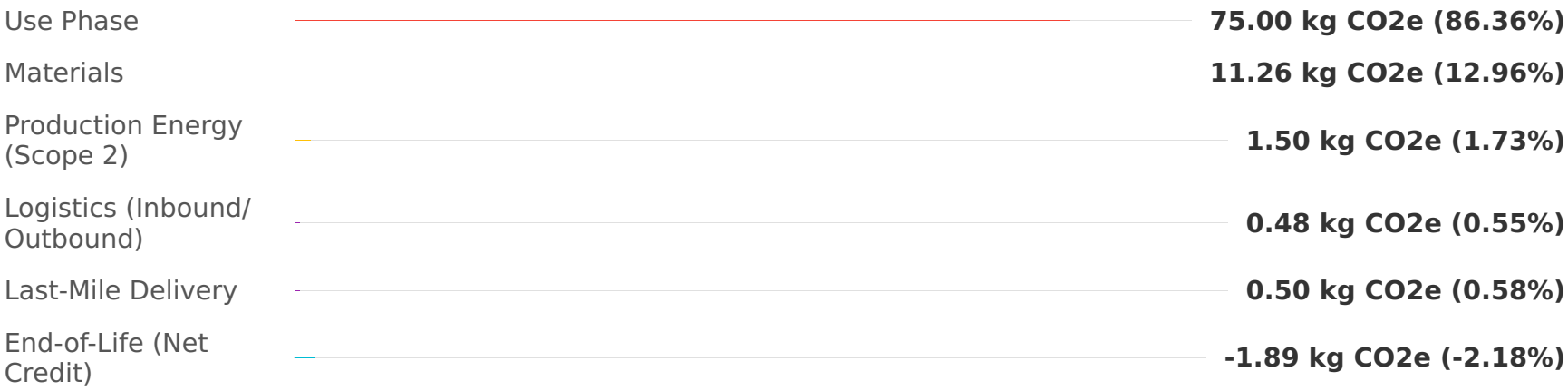
Primary Emission Hotspot

Use Phase

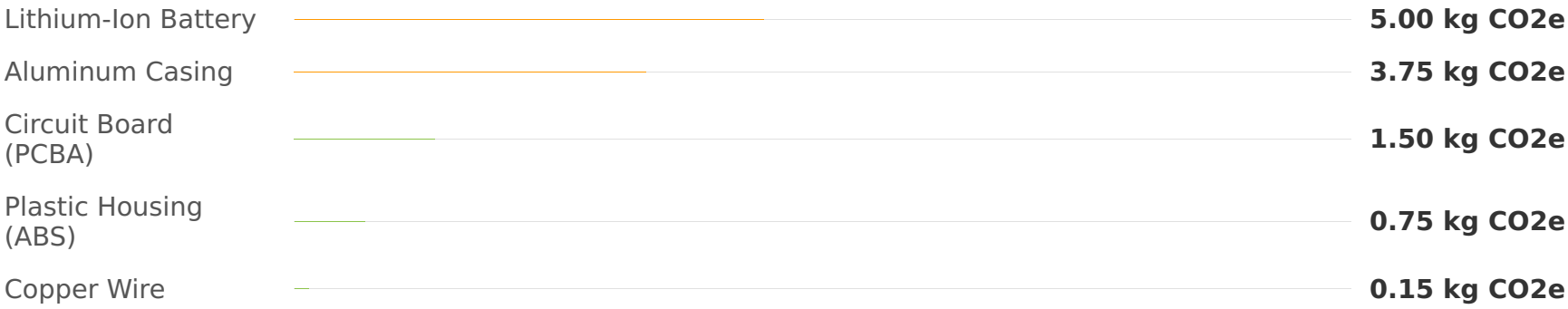
Key Emission Scope

Scope 3 (98.27%)

Lifecycle Stage Breakdown



Material Carbon Impact



Key Highlights & Hotspots

- The **Use Phase** dominates the product's footprint, contributing **86%** of total emissions (75.00 kg CO2e). This highlights the critical impact of user energy consumption.
- **Material Acquisition** is the second largest contributor (13%), with Lithium-Ion Batteries and Aluminum Casing being significant hotspots.
- A robust **98.27% coverage for Scope 3** emissions ensures a comprehensive value chain assessment, adhering to 2026 GHG Protocol requirements.

Recommendations for Reduction

- **Enhance Energy Efficiency:** Prioritize design improvements to drastically reduce the product's energy draw during its 5-year operational lifespan.
- **Optimize Materials:** Focus on lower-impact alternatives, increased recycled content, and lighter designs, especially for battery and aluminum components.
- **Strengthen Circularity:** Expand take-back and recycling initiatives (like 'rdjyitinxm') to maximize material recovery and explore product-as-a-service models.
- **Engage Supply Chain:** Collaborate with upstream suppliers to identify and mitigate emissions in the production of high-impact components.