html

Carbon Footprint Dashboard for

ydtlpxhyxy

Company: yqghhdmfgs | **Consultant:** sdpmwgnjfd

Total Product Carbon Footprint

4.99 kg CO2e / unit

Powered by carboncalcpcf.com

Report Generated: May 18, 2026

SYSTEM BOUNDARY

Cradle-to-Grave

Comprehensive lifecycle analysis

CARBON INTENSITY

33.27 kg CO2e / kg

Per kilogram of product (0.15kg)

TOP MATERIAL HOTSPOT

Circuit Board (PCB)

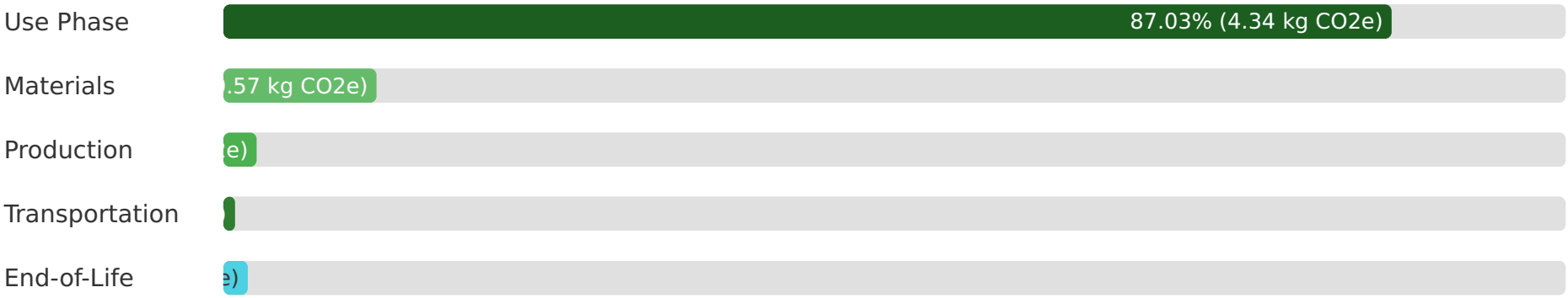
0.30 kg CO2e (from 0.57 kg total material)

PRIMARY EMISSION SCOPE

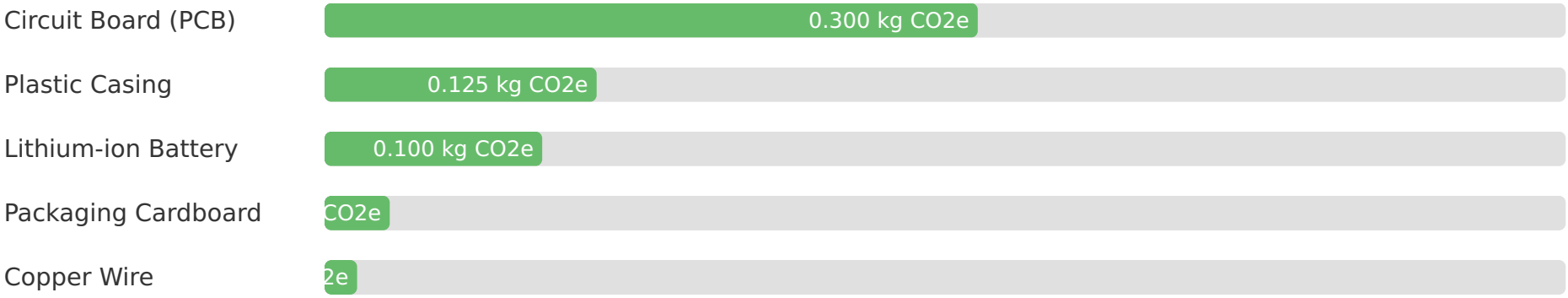
Scope 3 (Use Phase)

Dominates with 87.03% of total PCF

Lifecycle Stage Breakdown



Material Carbon Impact (Embodied Emissions)



Highlights & Emission Hotspots

- **Use Phase Dominance:** The product's operational lifespan (5 years) contributes 87% of the total PCF due to energy consumption and Europe's grid intensity.
- **Material Acquisition Impact:** Embodied emissions in purchased goods, especially electronics components like Circuit Boards, are the second largest hotspot (11.4%).
- **Circular Economy Benefits:** Strong recyclability (70%) and company-operated take-back programs result in a net negative End-of-Life impact, providing a carbon credit.

Recommendations for Emission Reduction

- **Enhance Use Phase Efficiency:** Focus on designing lower-power modes, using more efficient components, and encouraging end-users to utilize renewable energy.
- **Optimize Material Sourcing:** Explore alternative materials with lower embodied carbon, increase recycled content in components, and refine product design for material reduction.
- **Strengthen Circularity:** Continue investing in take-back programs and explore advanced recycling technologies to maximize material recovery and further avoid virgin material production.
- **Improve Data Quality:** Prioritize collecting primary data for all Scope 3 categories to enhance accuracy and robustness of future PCF analyses and identify targeted interventions.