

carboncalcpcf.com

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Product Carbon Footprint Analysis

Product: **jqpiqszmvd** | Company: **ygimpeqfqz**

Standard: GHG Protocol | Consultant: **nfdzffqpd**

Total PCF: 25.371 kg CO₂e

□ Total Product Footprint

25.371 kg CO₂e

Per 1.0 unit of jqpiqszmvd

⚡ Carbon Intensity

17.259 kg CO₂e/kg

Based on 1.47 kg total product weight

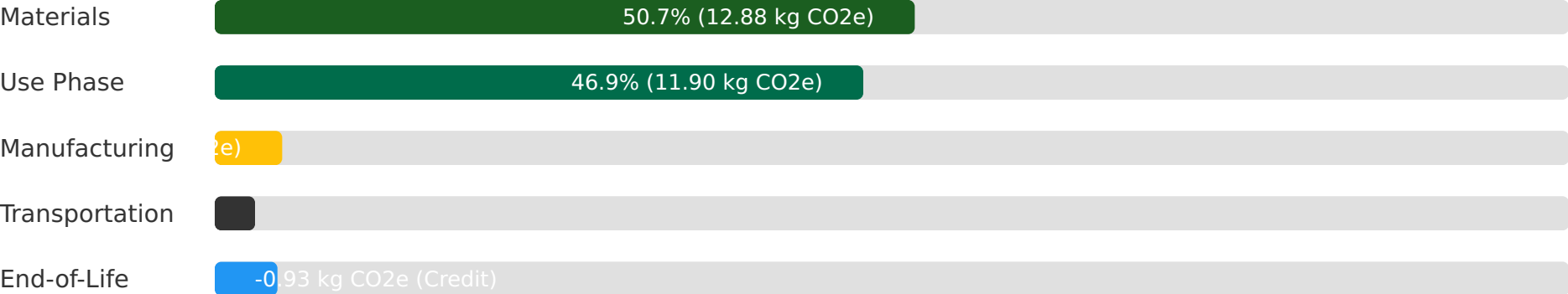
□ Top Material Hotspot

Electronic Circuit Board

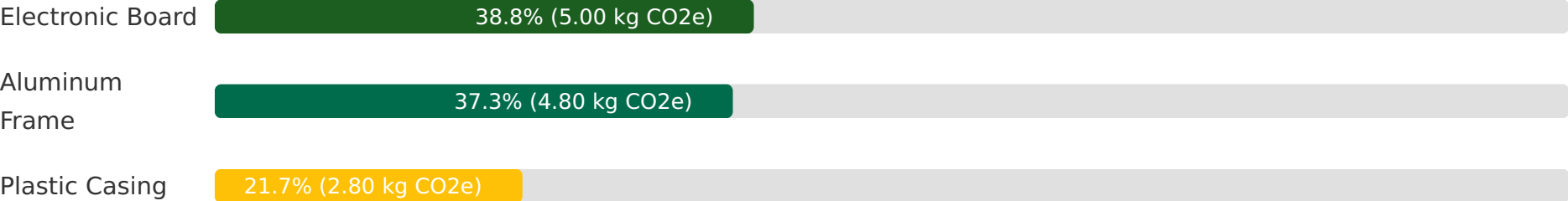
38.82% of material emissions

□ Primary Emission Scope

Lifecycle Emissions Breakdown



Material Hotspots (Top 3)



Key Insights & Hotspots

- **Material Emissions Dominant:** Materials Acquisition & Processing account for 50.7% of the total PCF, driven largely by high-impact aluminum and electronic components.
- **Significant Use Phase Impact:** The Use Phase contributes 46.9% to the total PCF, emphasizing the energy consumption during the product's 5-year lifespan.
- **Scope 3 Dominance:** Indirect Scope 3 emissions make up 96.02% of the total footprint, covering materials, transportation, use phase, and end-of-life.

Recommendations for Reduction

- **Material Optimization:** Focus on reducing high-impact materials; investigate lower-carbon alternatives or increased recycled content.
- **Energy Efficiency in Use:** Redesign for improved energy efficiency during the product's operational lifespan and educate end-users.
- **Renewable Energy Adoption:** Increase renewable energy usage in manufacturing operations and explore purchasing renewable energy certificates.
- **Circular Economy:** Strengthen take-back programs and explore component reuse and remanufacturing to maximize EoL benefits.