

html

carboncalcpcf.com

Product Carbon Footprint: ijxnqxmfeq

Total PCF: **67.82 kg CO2e**

Total Footprint

67.82 kg CO2e

Carbon Intensity

67.82 kg CO2e / unit

Top Material Hotspot

Metal Components

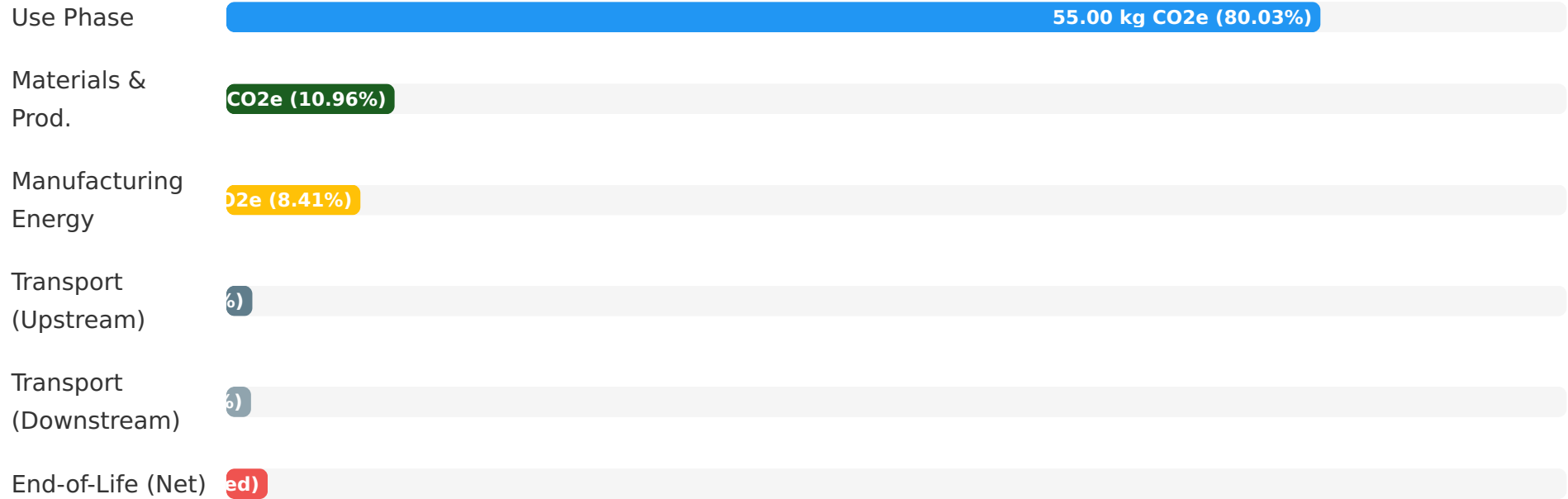
(3.00 kg CO2e)

Primary Emission Scope

Scope 3

(Use Phase)

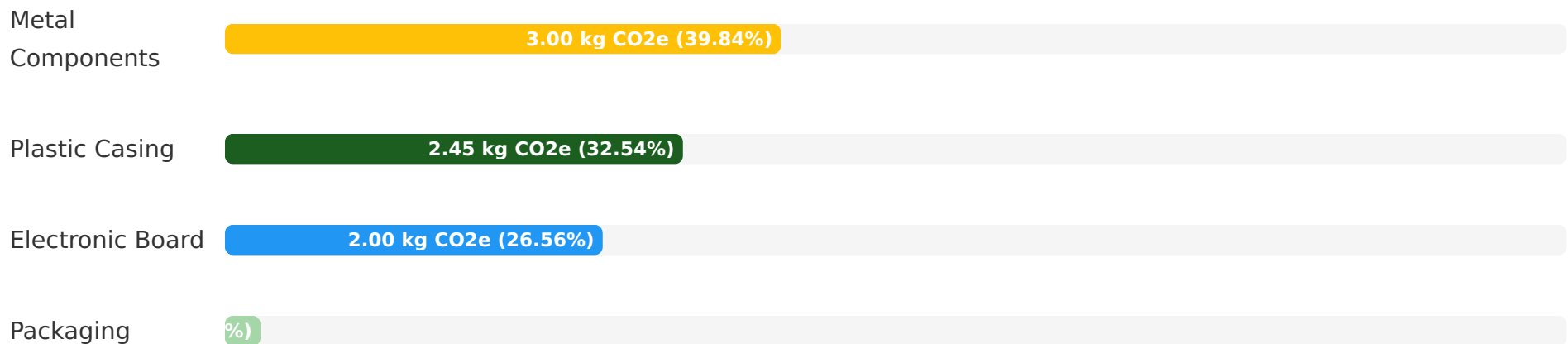
Lifecycle Stage Breakdown



Highlights & Insights

- The **Product Use Phase** is the overwhelmingly largest contributor, accounting for **55.00 kg CO2e** (approx. 80% of total positive emissions).
- **Material acquisition** (7.53 kg CO2e) and **manufacturing energy** (5.78 kg CO2e) are significant secondary hotspots, offering clear intervention points.
- The report adheres to the **GHG Protocol** and 2026 LSR Standard, ensuring at least **95% Scope 3 coverage** for comprehensive analysis.

Material Carbon Impact



Action Plan: How to Reduce

1. **Enhance Use Phase Efficiency:** Implement design changes to significantly reduce the product's energy consumption over its 5-year lifespan.
2. **Optimize Material Sourcing:** Explore alternative, lower-impact materials and collaborate with suppliers for product-specific emission factors.
3. **Boost Manufacturing Renewables:** Further increase the percentage of renewable energy used in the China production facility beyond the current 30%.
4. **Strengthen Circularity:** Reinforce the existing take-back program and integrate design-for-disassembly principles to improve recycling and recovery rates.