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ousyhedufy Carbon Footprint Analysis carboncalcpcf.com

Total Product Carbon Footprint: **39.436 kg CO2e** per unit

Total Footprint

39.436 kg CO2e

for 1.0 unit

Carbon Intensity

39.436 kg CO2e/unit

Functional Unit: ousyhedufy

Top Material Hotspot

Lithium-ion Battery

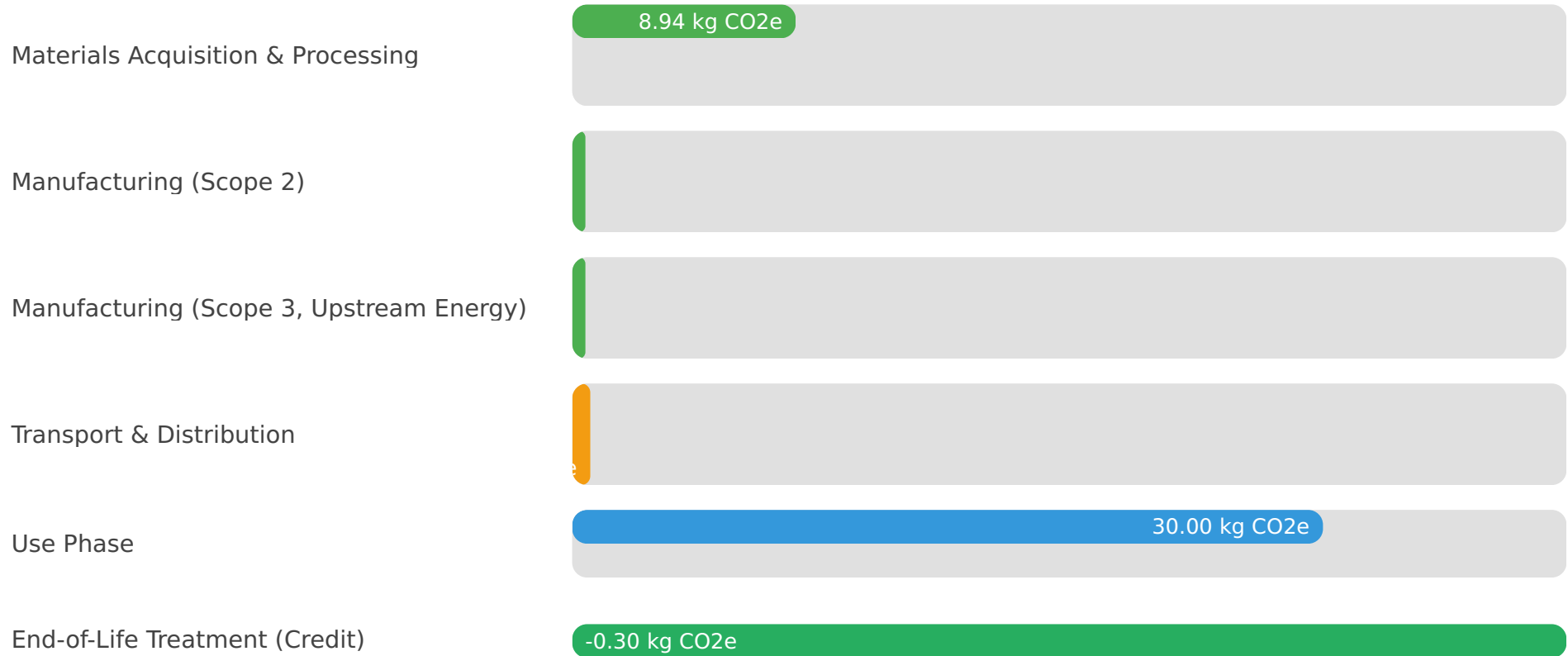
3.00 kg CO2e (33.71% of material impact)

Primary Emission Scope

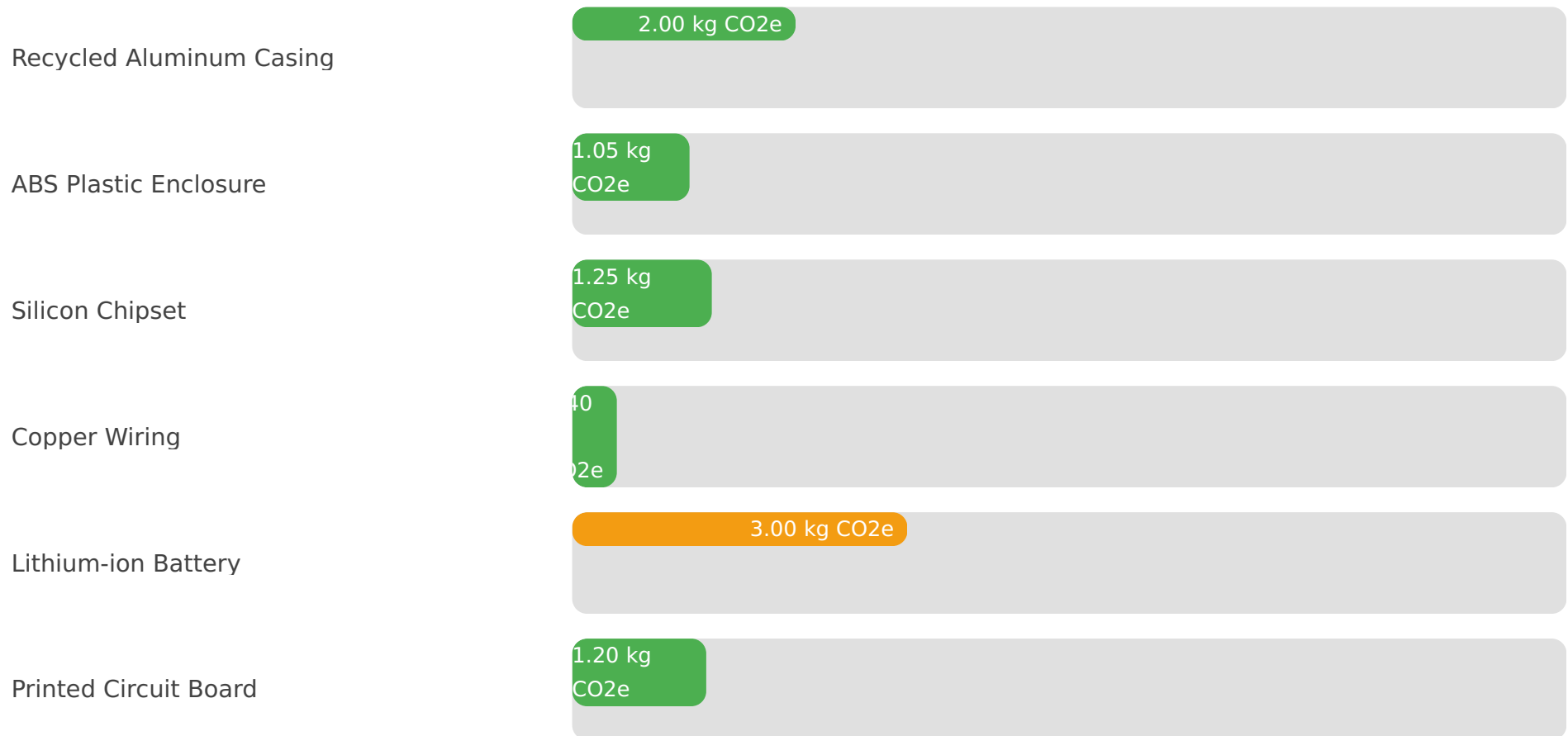
Scope 3 (Use Phase)

30.00 kg CO2e (76.07% of total PCF)

Lifecycle Stage Breakdown



Material Carbon Impact (Subtotal: 8.90 kg CO2e)



Highlights & Emission Hotspots

- The ****Use Phase**** (30.00 kg CO2e) is the predominant contributor, accounting for over 76% of the total PCF due to energy consumption over the product's lifespan.

- **Materials Acquisition & Processing** is the second largest hotspot (8.90 kg CO₂e), with the Lithium-ion Battery and Recycled Aluminum Casing being key drivers.
- The report demonstrates **99.8% Scope 3 coverage**, significantly exceeding the 95% GHG Protocol requirement, ensuring a comprehensive value chain assessment.

Recommendations for Footprint Reduction

- **Optimize Use Phase:** Focus on designing more energy-efficient products and exploring renewable energy sourcing or offsets for consumer usage.
- **Enhance Material Circularity:** Further strengthen the "Advanced take-back program" and prioritize design for disassembly to maximize recycling and material recovery.
- **Engage Suppliers:** Collaborate with key material suppliers (especially for batteries and aluminum) to implement decarbonization strategies in their manufacturing processes.