

html

# Product Carbon Footprint Dashboard

Product: fzyihdxlxh | Company: oeghpxditp | Consultant: rwhhjrosml

**17.79 kg CO<sub>2</sub>e** per unit

Total Footprint

**17.79 kg CO2e**

Overall impact per functional unit

Carbon Intensity

**17.79 kg CO2e/unit**

Footprint per 1.0 unit of fzyihdxlxh

Top Material Hotspot

**Aluminum Frame**

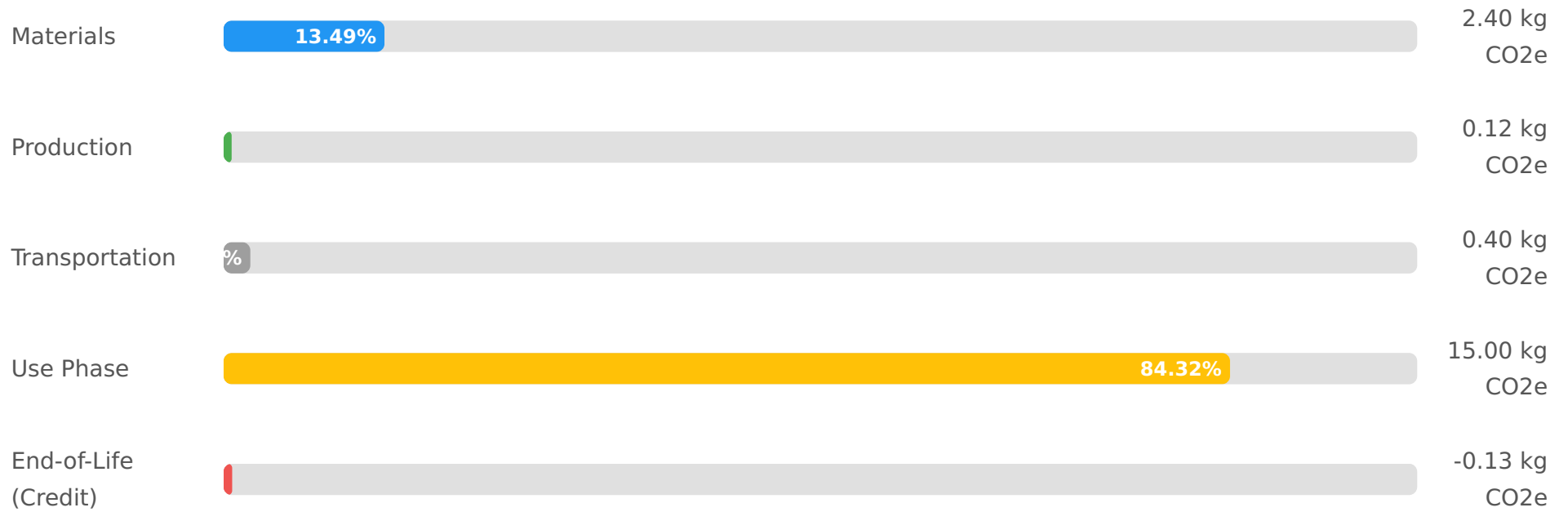
1.20 kg CO2e within materials

Primary Emission Scope

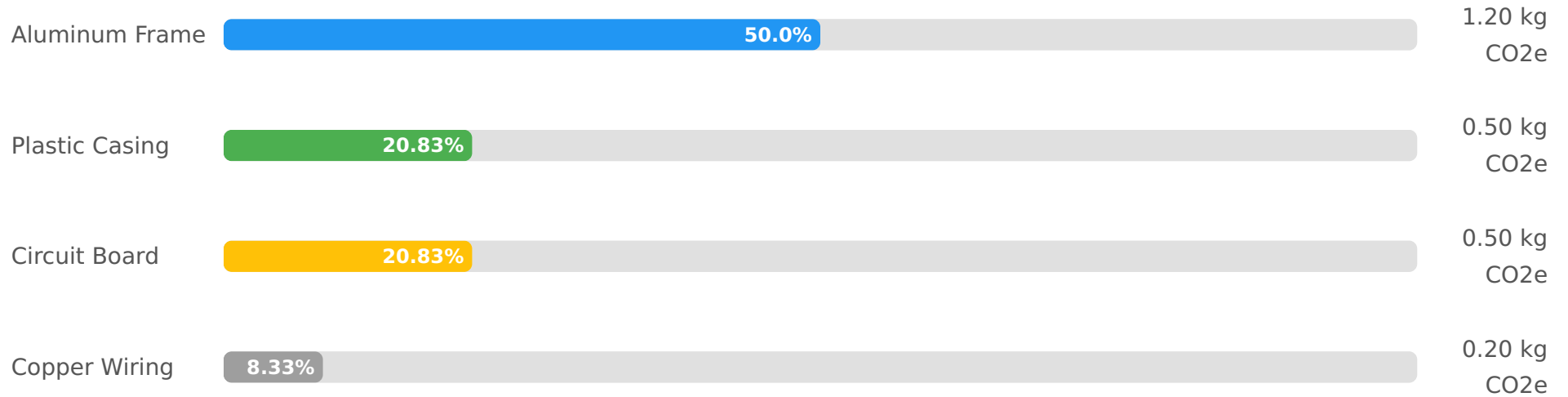
**Scope 3 (Use Phase)**

Dominant lifecycle stage

## Lifecycle Stage Breakdown



## Material Carbon Impact (Illustrative)



\*Percentages are relative to total illustrative material emissions (2.40 kg CO2e).

## Key Insights & Hotspots

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**Use Phase Dominance:** The product's energy consumption during its lifespan accounts for 84.32% of the total carbon footprint, making it the most significant hotspot.

**Material Impact:** Raw material acquisition, particularly for the Aluminum Frame, contributes significantly, highlighting the need for sustainable sourcing.

**Circular Economy Opportunity:** With an illustrative 60% recyclability and existing take-back programs, there's a strong foundation for enhancing material recovery and avoided emissions.

## Recommended Action Plan

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- **Optimize Use Phase:** Redesign for enhanced energy efficiency and lower power modes, and provide user guidance for sustainable operation to significantly reduce lifetime emissions.
- **Material Decarbonization:** Prioritize investigation into lower-carbon alternatives for the plastic casing and aluminum frame. Engage suppliers to verify and improve their embedded emissions.
- **Enhance Circularity:** Strengthen existing circular/take-back programs and explore design-for-disassembly strategies to maximize recyclability and material recovery.
- **Supply Chain Engagement:** Collaborate with key suppliers to foster operational efficiencies and increase renewable energy adoption across the value chain.
- **Detailed Data Collection:** Implement systems for more granular primary data collection on energy consumption and specific transportation modes to refine future PCF calculations.