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Product Carbon Footprint for **kwznosmfkj**

Report Generated: June 1, 2026

21.982 kg CO₂e

TOTAL CARBON FOOTPRINT

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21.982 kg CO₂e

Per 1.0 unit of kwznosmfkj

CARBON INTENSITY

21.982 kg CO₂e

Per functional unit

TOP MATERIAL HOTSPOT

Circuit Board

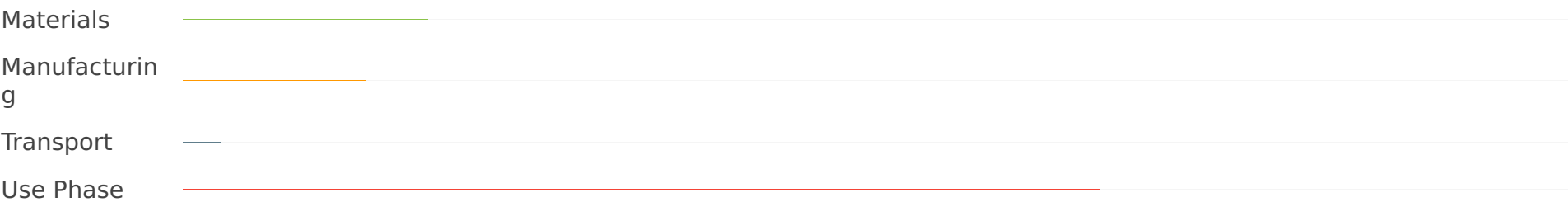
1.50 kg CO₂e

PRIMARY EMISSION SCOPE

Scope 3

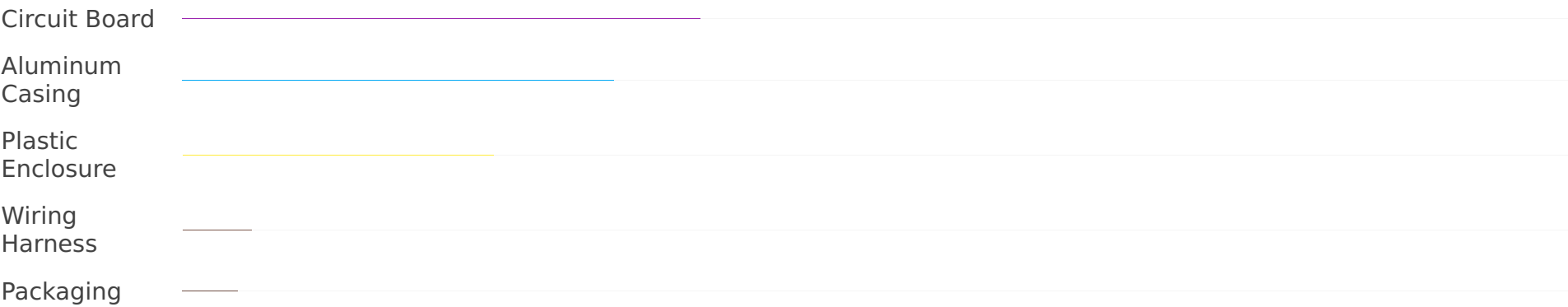
18.982 kg CO₂e

Lifecycle Stage Breakdown



End-of-Life Savings: -0.66 kg CO2e

Material Carbon Impact



Emissions Hotspots & Highlights

- **Use Phase (15.0 kg CO2e):** This constitutes the largest portion, driven by the product's energy consumption over its 5-year lifespan.
- **Material Acquisition (4.01 kg CO2e):** The choice of materials, particularly the Circuit Board and Aluminum Casing, contributes substantially.
- **Manufacturing (3.0 kg CO2e):** Despite 75% renewable energy use, the remaining non-renewable electricity is a key contributor, highlighting the need for 100% green energy.

Recommendations & Action Plan

Optimize Use Phase: Invest in R&D for highly energy-efficient product designs and educate consumers on sustainable use practices.

Sustainable Sourcing: Explore lower-carbon alternatives or higher recycled content for materials, especially for the Aluminum Casing and Plastic Enclosure.

Decarbonize Manufacturing: Aim for 100% renewable electricity for manufacturing operations in China, either through direct procurement or RECs.

Enhance Circularity: Leverage the existing take-back and refurbishment program to maximize product recovery and reuse.

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