

Product Carbon Footprint Dashboard

Product: fsutfvltww | **Company:** thprmyrqev

Standard: GHG Protocol | **Consultant:** myiwoxeomk

15.451 kgCO₂e

Total Carbon Footprint

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15.451 kgCO₂e

for 1.0 unit of product

Carbon Intensity

15.451 kgCO₂e/unit

Per functional unit

Primary Emission Scope

Scope 3

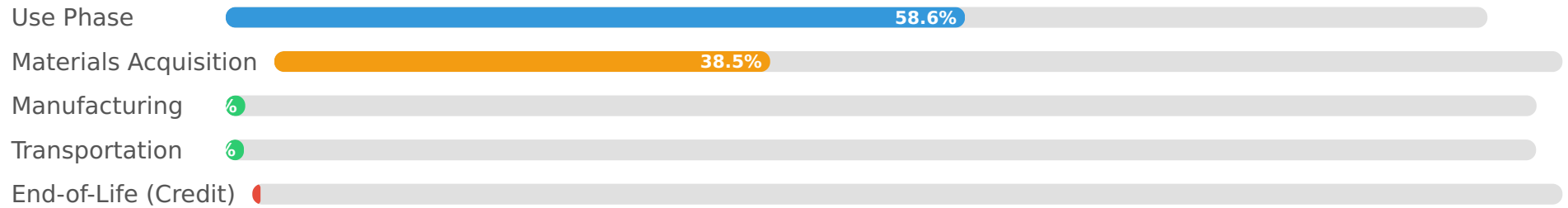
Indirect Value Chain Emissions (98.5%)

Top Material Hotspot

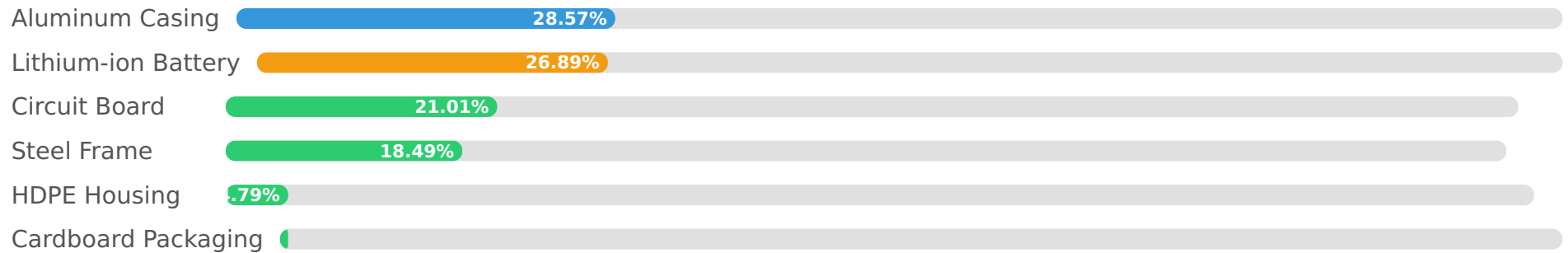
Aluminum Casing

Contributes 1.700 kgCO₂e to materials

Lifecycle Stage Breakdown



Material Carbon Impact



Key Insights & Hotspots

- • **Use Phase Dominance:** The product's energy consumption over its 5-year lifespan contributes the most significant portion (approximately 58.6%) to the total carbon footprint.
- • **Material Impact:** Embedded emissions from raw materials, particularly Aluminum, electronic components (Circuit Board, Lithium-ion Battery), and Steel, are the second largest contributor (approximately 38.5%).
- • **Minor Contributions:** Transportation (1.4%) and Manufacturing/Production (1.5%) constitute relatively smaller shares of the overall footprint, even with international supply chains.

Recommended Actions

- • **Optimize Use Phase Efficiency:** Implement design changes for lower energy consumption during product use and provide user guidance for efficient operation.
- • **Source Low-Carbon Materials:** Prioritize suppliers using renewable energy and explore alternative materials with lower embedded carbon or higher recycled content.
- • **Enhance Circularity:** Maximize actual recycling rates beyond 70% and investigate closed-loop recycling for complex components like electronics and batteries.
- • **Increase Renewable Energy in Manufacturing:** Further increase the share of renewable energy used in the Chinese manufacturing facility beyond the current 50% to reduce Scope 2 emissions.