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Product Carbon Footprint: heldfsnihm

Company: qjsveknodv | **Standard:** GHG Protocol

Consultant: qwoknvwous | **Generated:** June 3, 2026

39.89 kg CO₂e

per 1.0 unit

Total Footprint

39.89 kg CO2e

per functional unit

Carbon Intensity

39.89 kg CO2e

per 1.0 unit

Top Material Hotspot

Battery (Li-ion)

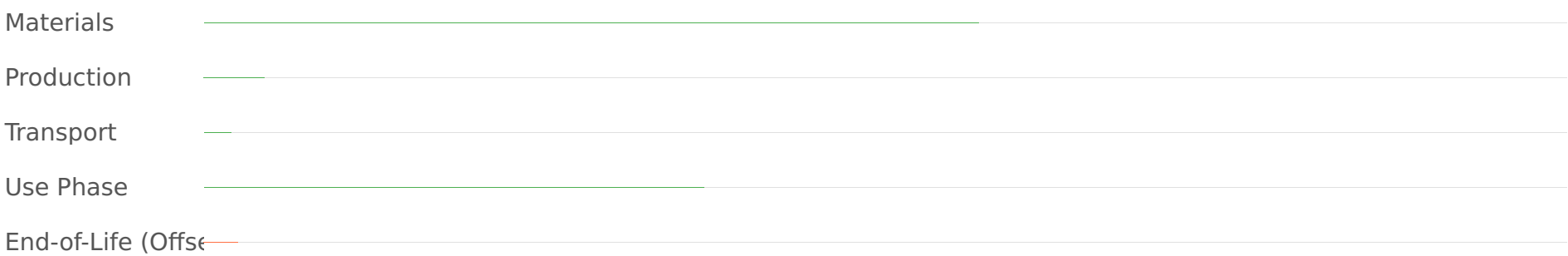
64.52% of material impact

Primary Emission Scope

Scope 3

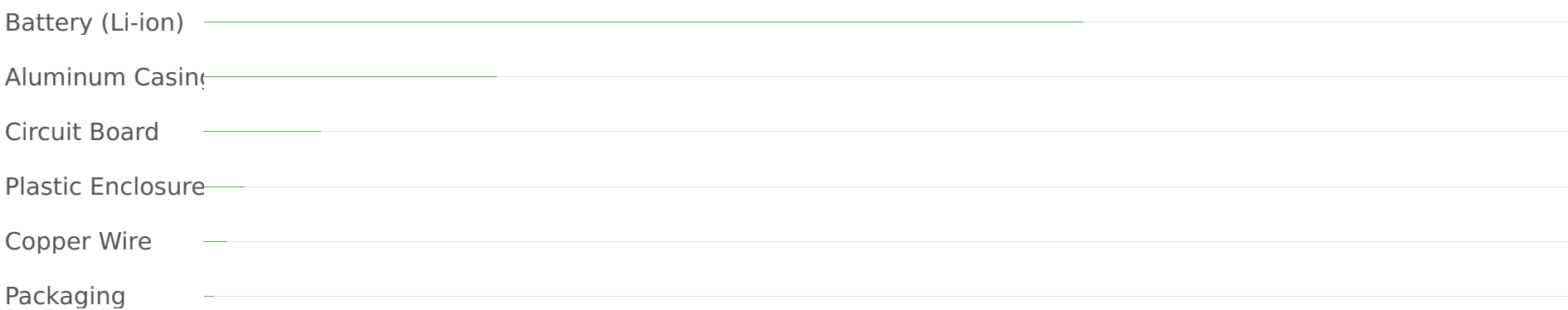
95.42% of total footprint

Carbon Footprint by Lifecycle Stage



Note: End-of-Life represents a net carbon removal/offset due to recycling benefits.

Material Carbon Impact Breakdown



Highlights & Key Insights

- **Material Production is a Major Hotspot:** 58.28% of the total footprint comes from material acquisition, with the Li-ion Battery being the single largest contributor at 15.0 kg CO₂e.
- **Significant Use Phase Emissions:** The product's operational use accounts for 37.60% of emissions, largely due to energy consumption over its 5-year lifespan.
- **Strong Scope 3 Dominance:** Upstream and downstream value chain emissions (Scope 3) represent a significant 95.42% of the overall carbon footprint, highlighting the importance of supply chain engagement.

Recommendations for Emission Reduction

- **Material Optimization:** Explore alternative, lower-carbon materials for high-impact components, especially the battery and aluminum casing.
- **Enhance Energy Efficiency in Use:** Implement design improvements to reduce energy consumption during the product's operational lifespan.
- **Boost Renewable Energy in Production:** Increase the percentage of renewable energy usage at the manufacturing facilities in China.
- **Strengthen Circularity:** Further develop take-back programs and design for enhanced repairability and higher recycling rates.
- **Supply Chain Collaboration:** Engage with suppliers and transport partners to optimize routes, utilize more efficient transport modes, or switch to lower-emission fuels for logistics.

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