

html

Product Carbon Footprint Dashboard

Product: okuoygveiz | Quantity: 1.0 unit | System Boundary: factory_gate

93.86 kg CO2e

Total PCF for okuoygveiz

Total Footprint

93.86 kg CO2e

Per 1.0 unit

Top Material Hotspot

Lithium-ion Battery

40.00 kg CO2e (42.6%)

Primary Emission Scope

Scope 3

81.45 kg CO2e (86.78% of Total)

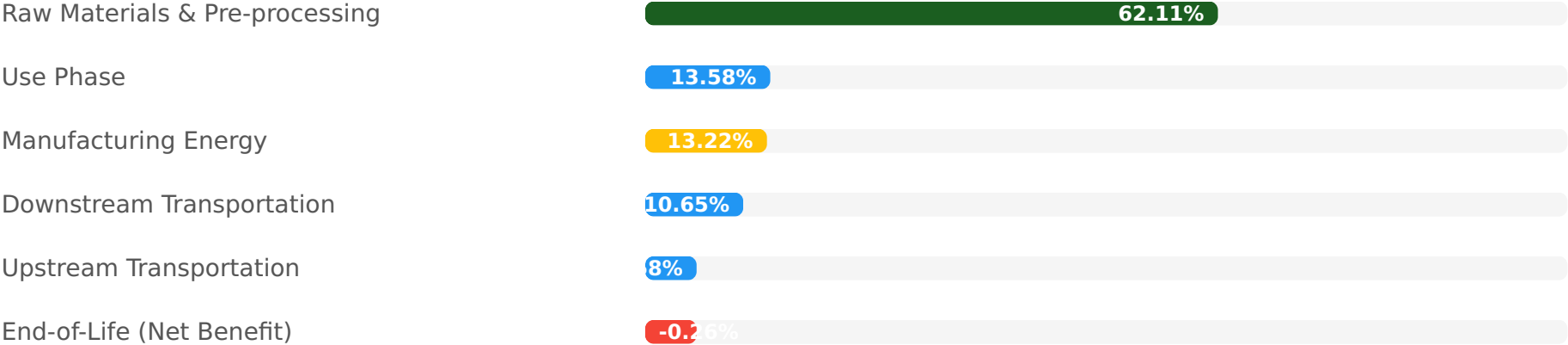
Production & Standard

China

GHG Protocol Standard

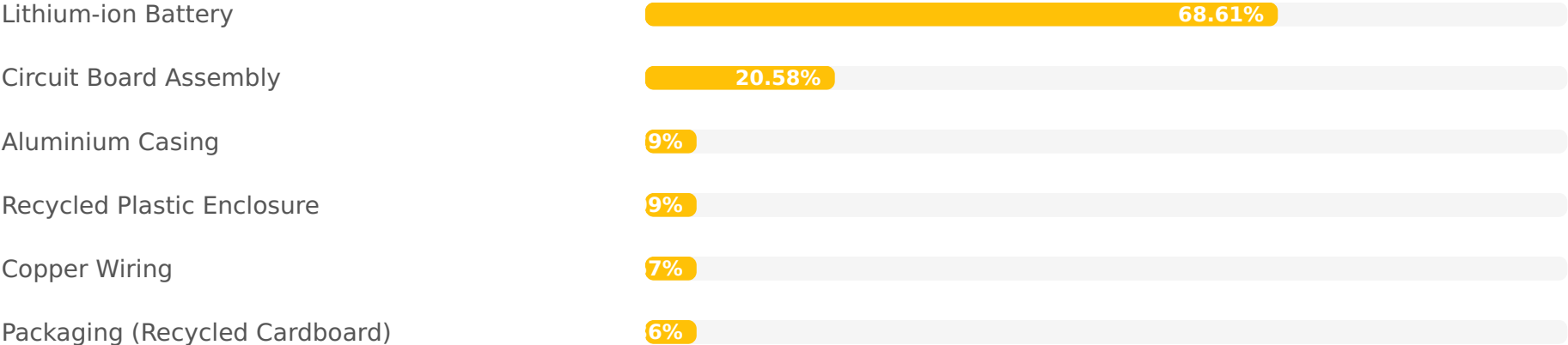
Lifecycle Stage Breakdown

Contribution to Total PCF by Lifecycle Stage



Material Carbon Impact

Key Materials Contributing to Raw Material Footprint (58.30 kg CO2e total)



Key Insights & Highlights

- **Material Impact Dominant:** Raw material acquisition and pre-processing account for a significant 62.11% of the total PCF, with the Lithium-ion Battery being the largest single contributor.
- **Use Phase & Manufacturing Energy:** The product's energy consumption during its use phase (13.58%) and manufacturing energy (13.22%) are also major contributors, despite 60% renewable energy use in production.
- **Strong Scope 3 Coverage:** The analysis robustly covers Scope 3 emissions (86.78% of total), aligning with 2026 GHG Protocol requirements, including a net benefit from End-of-Life activities due to high recyclability.

Recommendations for Reduction

- **Material Sourcing:** Prioritize lower-carbon or higher recycled-content materials, especially for components like batteries and circuit boards.
- **Energy Efficiency:** Increase renewable energy adoption beyond 60% at the China facility and optimize energy consumption in manufacturing.
- **Logistics Optimization:** Investigate more efficient and lower-emission transport modes for both upstream and downstream supply chains.
- **Product Lifespan & Efficiency:** Design for extended product lifespans and further enhance energy efficiency during the product's use phase.
- **Circular Economy:** Strengthen take-back and recycling programs to maximize end-of-life benefits and minimize waste.