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Product Carbon Footprint for qxjjmtkfsl

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38.87 kgCO₂e
Total Product Footprint

Key Metrics Overview

38.87 kgCO₂e

Total PCF per Unit

18.51 kgCO₂e/kg

Carbon Intensity (per kg)

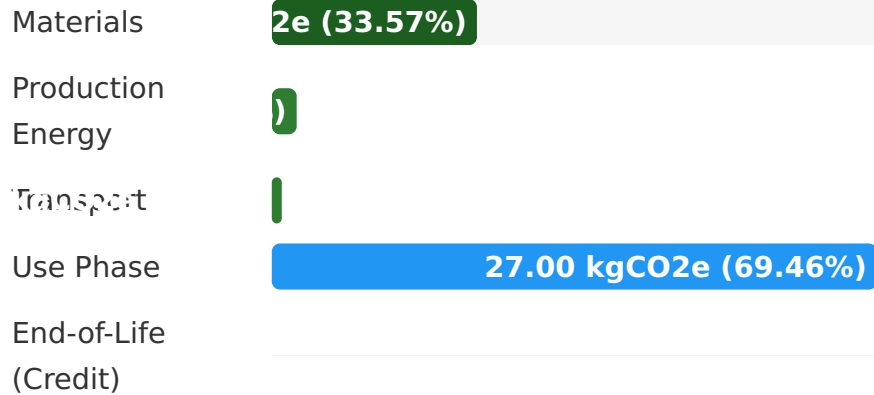
Use Phase

Primary Emission Hotspot

Scope 3

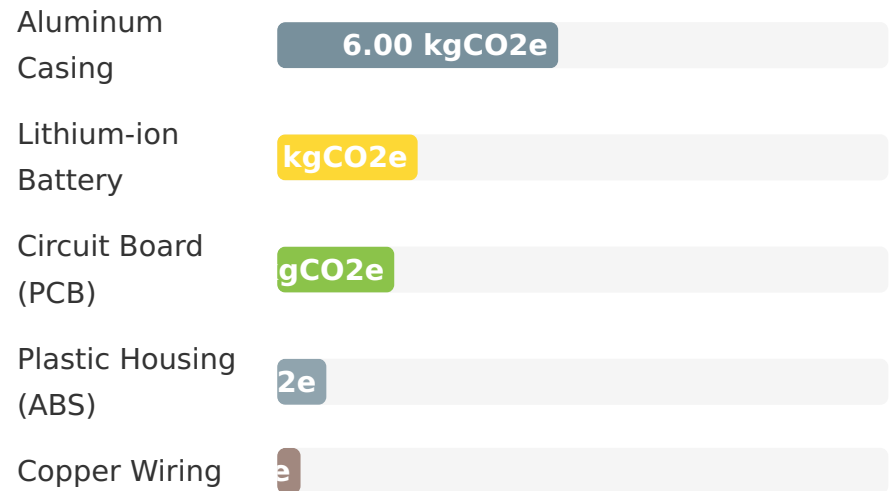
Dominant GHG Scope

Lifecycle Stage Breakdown



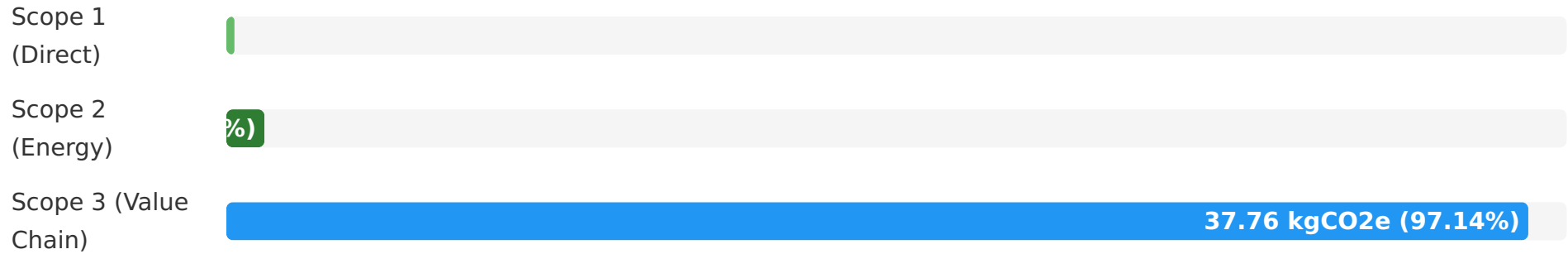
Note: Percentages are relative to the total PCF of 38.87 kgCO2e. End-of-Life represents a carbon credit.

Material Carbon Impact (BOM)



Total Material Carbon Footprint: 13.05 kgCO2e

GHG Protocol Scope Breakdown



Highlights: Key Hotspots

- The **Use Phase** accounts for the largest portion of the PCF (approximately 69.46%), primarily due to the product's energy consumption over its 5-year lifespan.
- **Upstream Material Production** is the second most significant contributor (approximately 33.57%), with Aluminum, Lithium-ion Batteries, and Copper identified as high-impact materials.
- **End-of-Life Treatment** provides a significant net carbon benefit (-2.63 kgCO₂e) due to a high recyclability percentage (70%) and comprehensive circular programs, effectively reducing the overall PCF.

Action Plan: How to Reduce Emissions

- **Enhance Use Phase Efficiency:** Invest in R&D to reduce energy consumption during product operation; explore low-power modes and extend durability.
- **Optimize Material Sourcing:** Collaborate with suppliers to reduce the embedded carbon of high-impact materials by sourcing from manufacturers using renewable energy or recycled content.
- **Strengthen Circularity:** Continue to invest in take-back programs and high-recyclability designs, aiming to increase the recyclability percentage further.
- **Supplier Engagement:** Engage with suppliers to obtain more primary data on manufacturing processes, energy consumption, and specific emission factors for improved accuracy.
- **Renewable Energy Integration:** Evaluate opportunities to increase renewable energy usage in manufacturing operations and encourage suppliers to do the same.

Data based on GHG Protocol standards and 2026 updates (LSR, Scope 3 Compliance).

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