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Product Carbon Footprint

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Report

Product: ljrrossuyx

Total Product Carbon Footprint

23.46 kg CO₂e / unit

Measured for 1.0 unit of ljrrossuyx, factory_gate system boundary.

Standard Applied

GHG Protocol

Primary Hotspot

Use Phase

(57.6% of total)

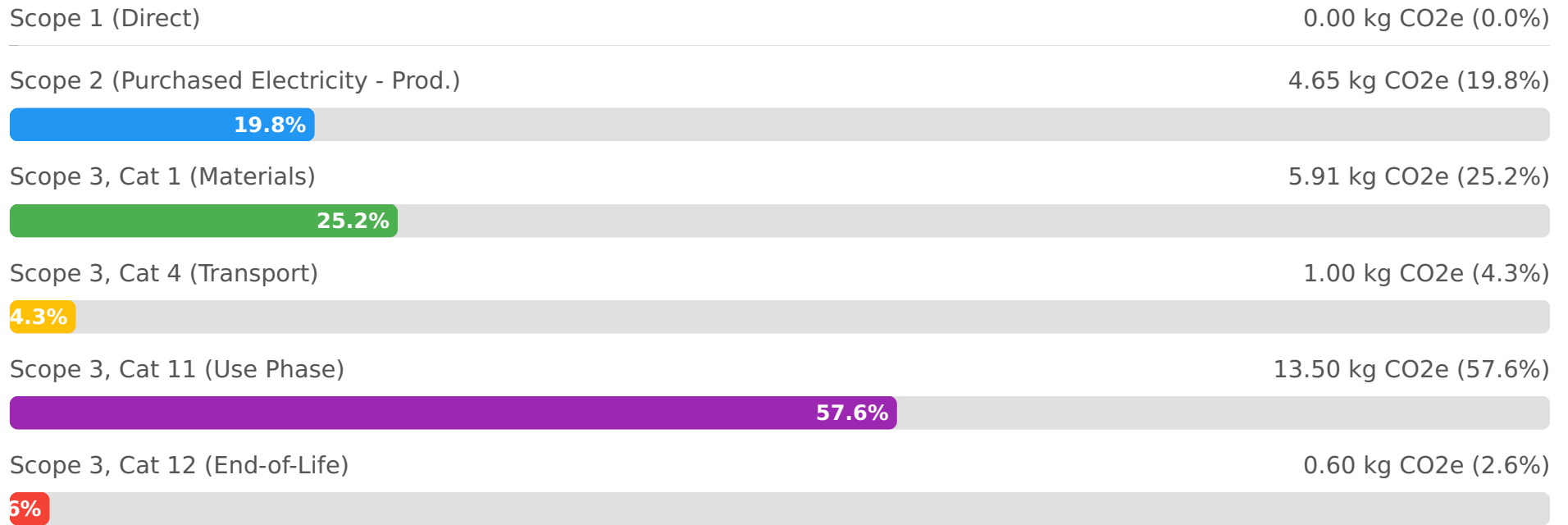
Renewable Energy Usage (Production)

50%

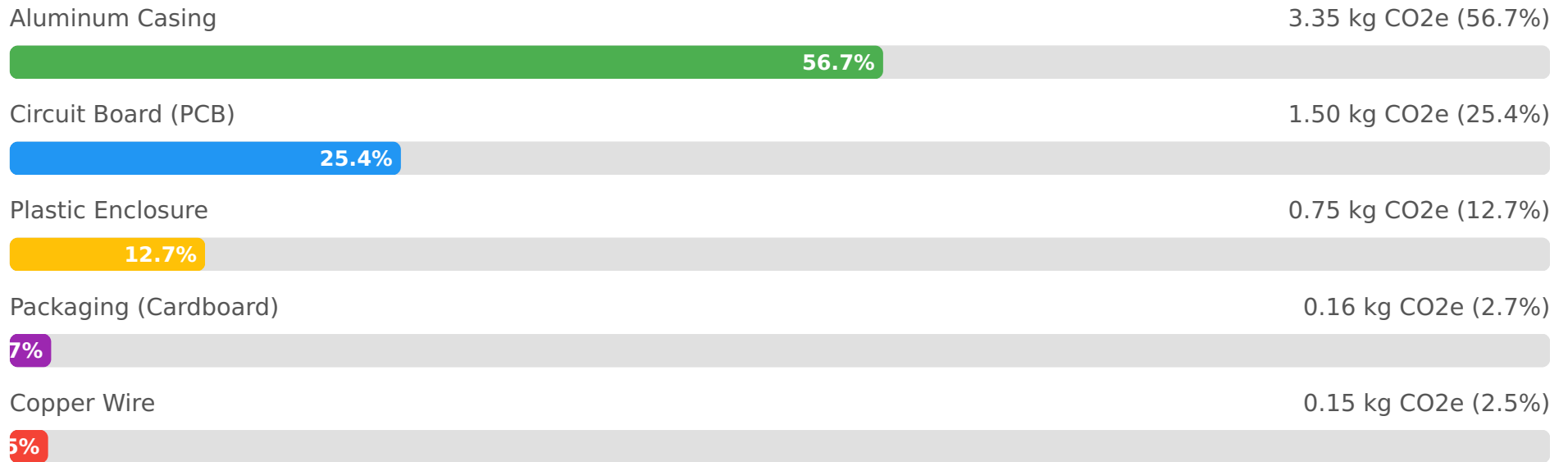
Product Recyclability

70%

Lifecycle Stage Breakdown (GHG Protocol Scopes)



Material Carbon Impact Breakdown (Total: 5.91 kg CO2e)



Highlights & Key Hotspots

- **Use Phase Dominates:** The product's 5-year operational lifespan contributes 57.6% of the total carbon footprint, making it the most critical area for reduction.
- **Material Impact Significant:** Purchased goods and services, particularly aluminum casing (56.7% of material emissions) and PCBs (25.4%), account for 25.2% of the total PCF.
- **Production Electricity Matters:** Despite 50% renewable energy use, manufacturing in China accounts for a notable 19.8% of emissions, indicating room for further greening the production process.

Recommendations for Carbon Reduction

- **Enhance Use Phase Efficiency:** Invest in R&D to significantly reduce energy consumption during the product's operational lifespan.
- **Green Procurement Strategy:** Prioritize sourcing materials with lower embedded carbon (e.g., recycled content for aluminum) and engage with suppliers on decarbonization.
- **Boost Renewable Energy:** Increase the share of renewable energy at manufacturing facilities in China beyond the current 50%, utilizing credits or on-site generation.
- **Strengthen Circularity Efforts:** Leverage the active take-back program to maximize material recovery, reuse, and high-value recycling, minimizing virgin material demand and EoL waste.

Report generated by carboncalcpcf.com for pkoghtslzx. Consultant: fvnurfuhqd.

Disclaimer: This report is based on provided data and industry standards. Accuracy depends on completeness and reliability of input parameters.