Product Carbon Footprint Dashboard

A comprehensive overview for **xlfdnjrhei**

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Total Footprint

31.40 kg CO2e

Carbon Intensity

31.40 kg CO2e/unit

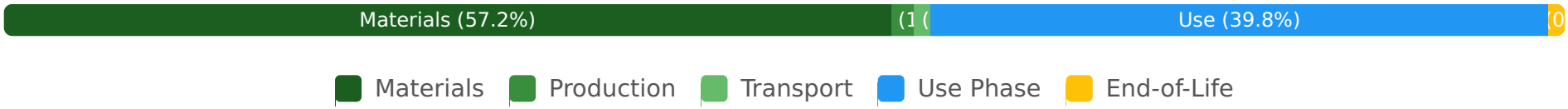
Top Material Hotspot

Silicon Chipset (10.00 kg CO2e)

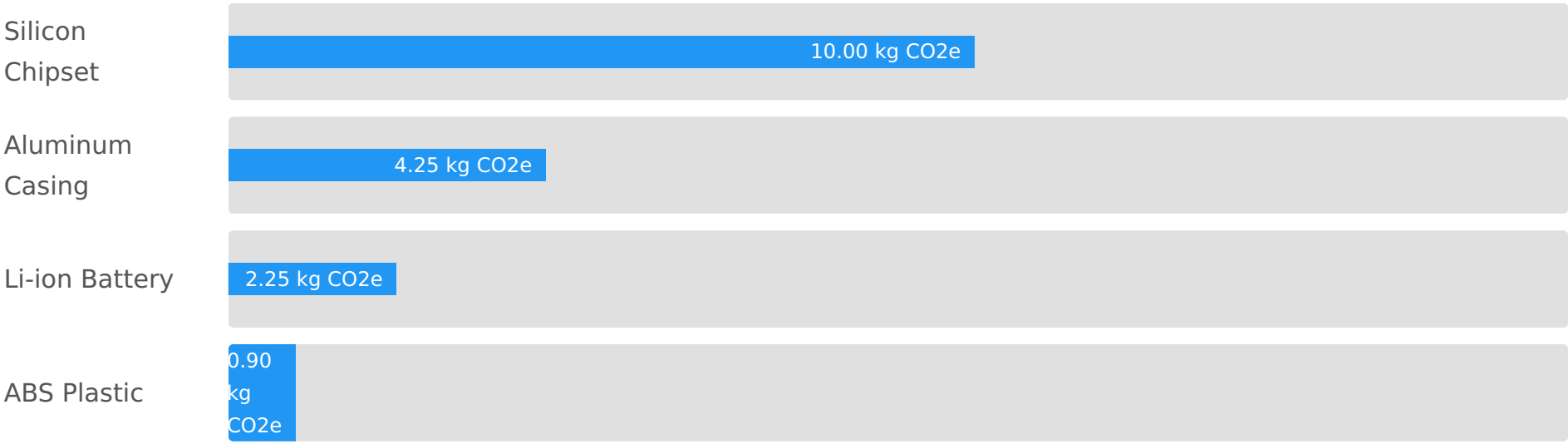
Primary Emission Scope

Scope 3

Lifecycle Stage Breakdown



Top Material Carbon Impact



Key Emission Hotspots

Materials Acquisition (Scope 3): Represents the largest portion, particularly due to high-impact components like the Silicon Chipset and Li-ion Battery.

Use Phase (Scope 3): Significant emissions arise from the energy consumption during the product's lifespan, highlighting opportunities for optimizing energy efficiency in product design.

Production Energy (Scope 2): While partially mitigated by renewable energy usage, the remaining reliance on the grid in China contributes to the footprint.

Recommendations for Reduction

Material Optimization: Explore alternative, lower-carbon materials or design changes to reduce the impact of high-emission components. Engage with suppliers to collect primary emission data.

Energy Efficiency: Invest in further product design improvements to reduce energy consumption during the use phase.

Renewable Energy Expansion: Continue increasing the percentage of renewable energy used in manufacturing operations and explore options for influencing renewable energy adoption across the supply chain.

Circular Economy Initiatives: Leverage existing circular/take-back programs and high recyclability to quantify and report carbon removals and avoided emissions in future reports.

Data Refinement: Prioritize collecting primary data for material production and transportation from key suppliers to enhance the accuracy and robustness of future PCF assessments.