

html

Product Carbon Footprint Dashboard

Product: **lsmxqmjvle** | Generated by carboncalcpcf.com

Total PCF for 1.0 unit: **48.312 kg CO2e**

Key Performance Indicators

Total Footprint

48.312 kg CO2e

Carbon Intensity

48.312 kg CO2e/unit

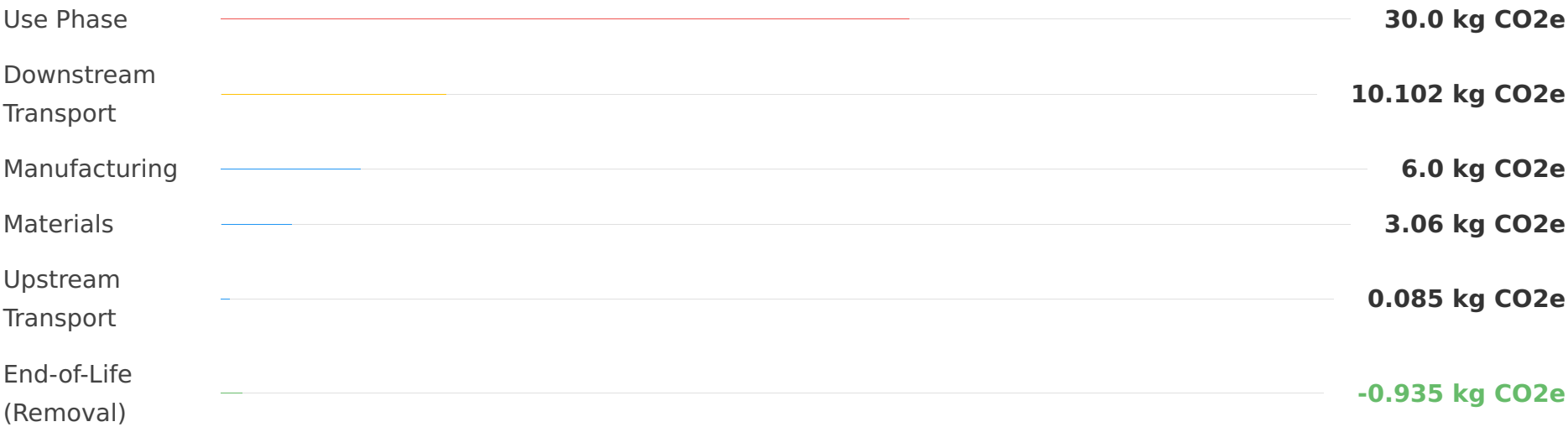
Top Material Hotspot

Circuit Board (1.50 kg CO2e)

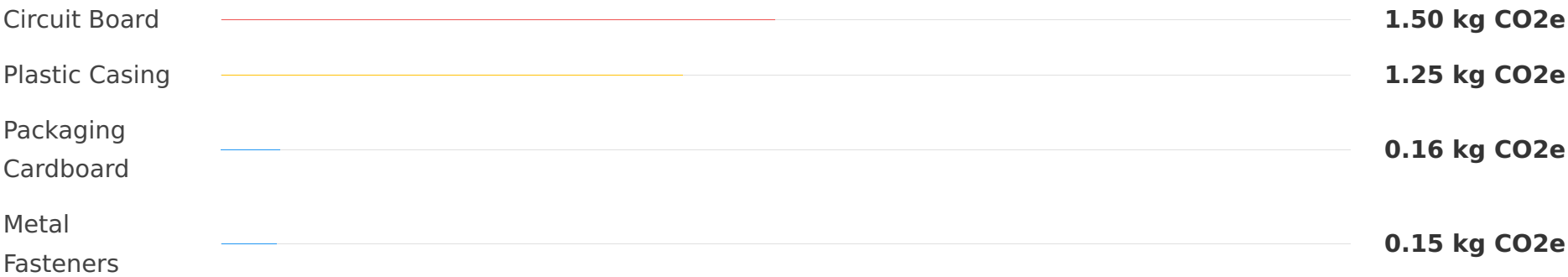
Primary Emission Scope

Use Phase (62.1%)

Carbon Footprint Breakdown by Lifecycle Stage



Material Composition vs. Carbon Impact



Key Findings & Hotspots

Use Phase Dominance: The product's operational lifespan accounts for 62.1% of its total footprint, making it the most significant emission hotspot.

Last-Mile Impact: Downstream transportation, especially last-mile delivery, contributes a substantial 20.9% to overall emissions, highlighting logistics as a critical area for optimization.

Circular Economy Benefits: An active take-back program and 75% recyclability lead to a net carbon removal in the End-of-Life phase, demonstrating positive circularity impacts.

Recommendations for Carbon Reduction

Optimize Use Phase Efficiency: Focus on reducing the product's energy consumption during its lifespan and promoting renewable energy use by end-users.

Improve Downstream Logistics: Explore carbon-efficient last-mile delivery options, optimize routes, and consider consolidated shipping to reduce distribution impact.

Enhance Renewable Energy Adoption: Increase the percentage of renewable energy used in manufacturing to further reduce Scope 2 emissions from production.

Material Optimization: Continuously review and optimize the Bill of Materials for lower-carbon alternatives, even for less dominant hotspots.

Expand Circularity: Strengthen take-back programs and explore innovative recycling technologies to maximize material recovery and circularity benefits.

Confidential - Internal Use Only | Data provided by zturiflxrq | Consultant: idzhduvjgh

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