

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: gsvunfrimd | Report Date: May 18, 2026

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Total PCF: 13.796 kg CO₂e

TOTAL FOOTPRINT

13.796 kg CO₂e

Per functional unit

CARBON INTENSITY

13.796 kg CO₂e/unit

Product: gsvunfrimd

TOP EMISSION SOURCE

Material Acquisition

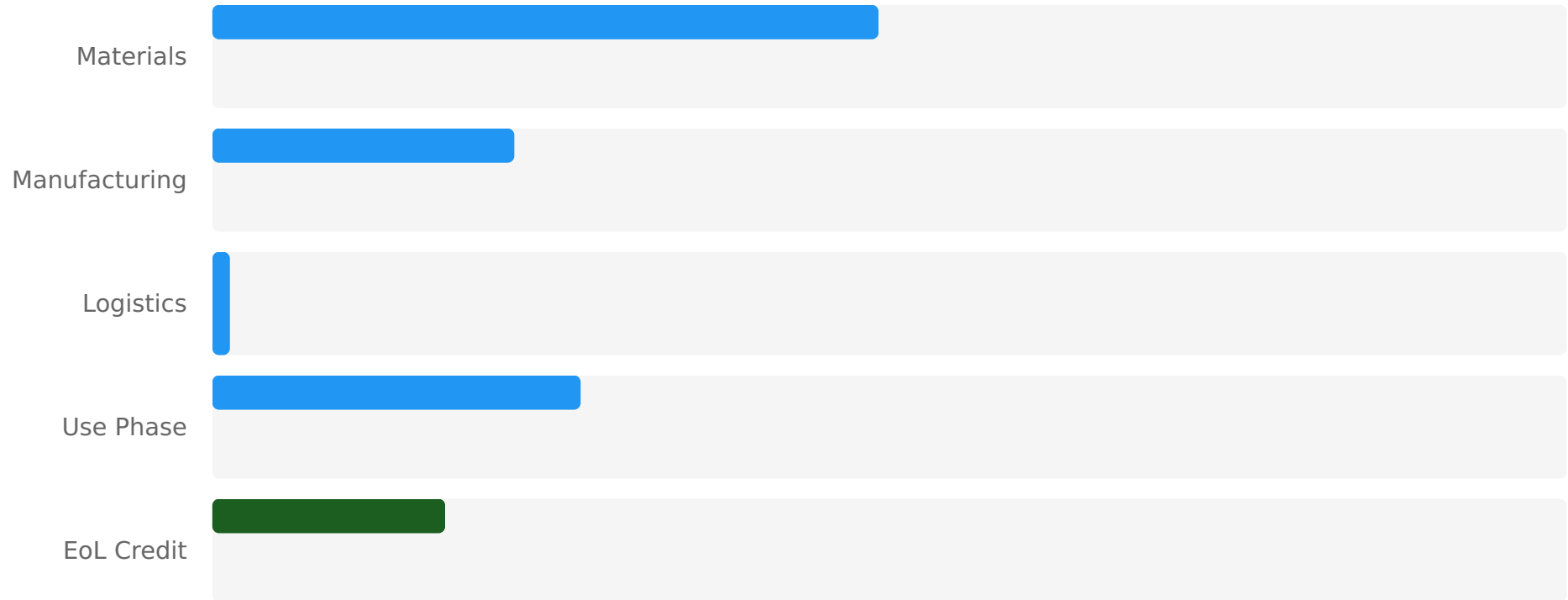
8.200 kg CO₂e (49.2% of gross)

PRIMARY GHG SCOPE

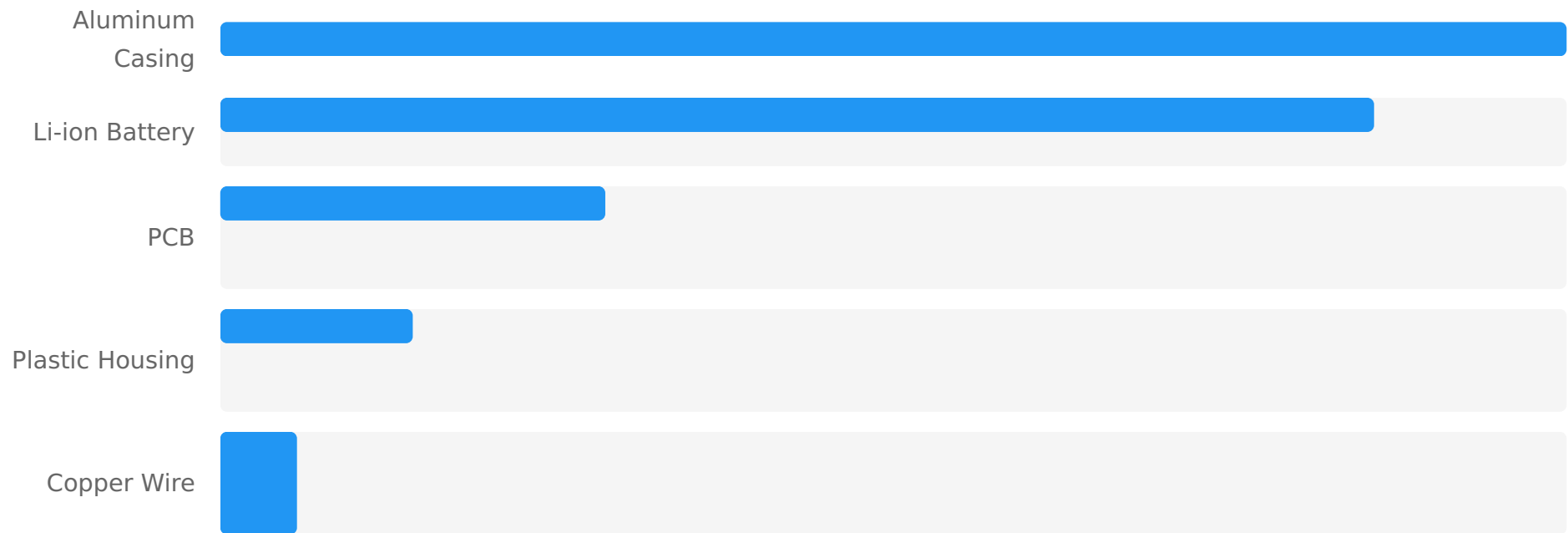
Scope 3

73.00% of total PCF

Carbon Footprint Breakdown by Lifecycle Stage



Material Impact Breakdown (by kgCO2e)



Key Carbon Hotspots

Material Acquisition (Scope 3, Category 1) is the largest hotspot, contributing 8.200 kg CO2e, primarily from energy-intensive materials like aluminum and electronics.

The **Use Phase** (Scope 3, Category 11) is a significant contributor with 4.525 kg CO₂e, indicating high energy consumption during the product's lifespan.

Manufacturing (Scope 2) accounts for 3.723 kg CO₂e, driven by purchased electricity for the factory, even with 40% renewable energy usage.

Recommendations for Emission Reduction

Material Optimization: Explore lower-carbon alternatives for aluminum casing and other high-impact components, and engage suppliers on decarbonization.

Manufacturing Efficiency: Increase renewable energy usage at the production facility beyond 40% and invest in energy-efficient equipment.

Product Design for Energy Efficiency: Redesign 'gsvunfrimd' to significantly reduce energy consumption (jxoodusuwi) during its 5-year lifespan.

Enhance Circularity: Improve recyclability beyond 70% and strengthen take-back programs to maximize material recovery and End-of-Life credits.

Supply Chain Engagement: Collaborate with transportation providers to optimize routes and switch to lower-emission transport modes where feasible.