Product PCF Dashboard: uvlsgeymif

Total Carbon Footprint: **26.769 kg CO2e**

For 1.0 unit, System Boundary: factory_gate, Standard: GHG Protocol

Total Footprint

26.769 kg CO2e

Per 1.0 unit of uvlsgeymif

Carbon Intensity

26.769 kg CO2e/unit

Relative to functional unit

Top Hotspot

Materials (67%)

Purchased Goods & Services

Primary Scope

Scope 3

Value Chain Emissions

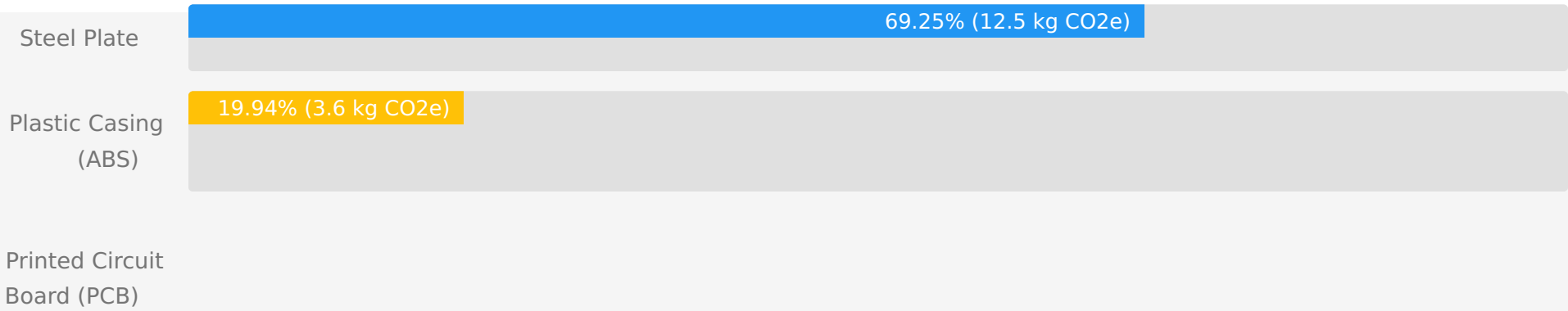
Lifecycle Stage Breakdown

Total PCF

100%

Materials (67.43%) Production (8.09%) Logistics (10.40%) Use Phase (14.01%) End-of-Life (0.07%)

Material Impact Breakdown



Key Insights & Hotspots

Materials dominate: Purchased goods and services (materials) account for approximately 67% of the total PCF, driven by energy-intensive components like steel and complex PCBs.

Use phase impact: The product's operational lifespan contributes significantly (14%), primarily due to electricity consumption over 3 years.

Manufacturing opportunity: Despite 75% renewable energy usage in production, the remaining grid electricity still represents an 8% emission share, indicating room for further decarbonization.

Action Plan: Reducing Footprint

Material Decarbonization: Prioritize sourcing lower-carbon alternatives and increasing recycled content for high-impact materials.

Energy Efficiency in Use: Implement design improvements to minimize energy consumption during the product's 3-year lifespan.

100% Renewable Energy: Explore achieving full renewable energy for manufacturing operations in China.

Supply Chain Optimization: Continuously assess and optimize transportation routes and modes for both inbound and outbound logistics.

Circular Economy: Leverage active take-back programs to maximize material recovery and explore closed-loop systems.

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