

carboncalpcf.com

Product Carbon Footprint Dashboard

Product: qqeuehpilw

28.04 kg CO2e per 1.0 unit

Total Footprint

28.04 kg CO2e

Carbon Intensity

28.04 kg CO2e / unit

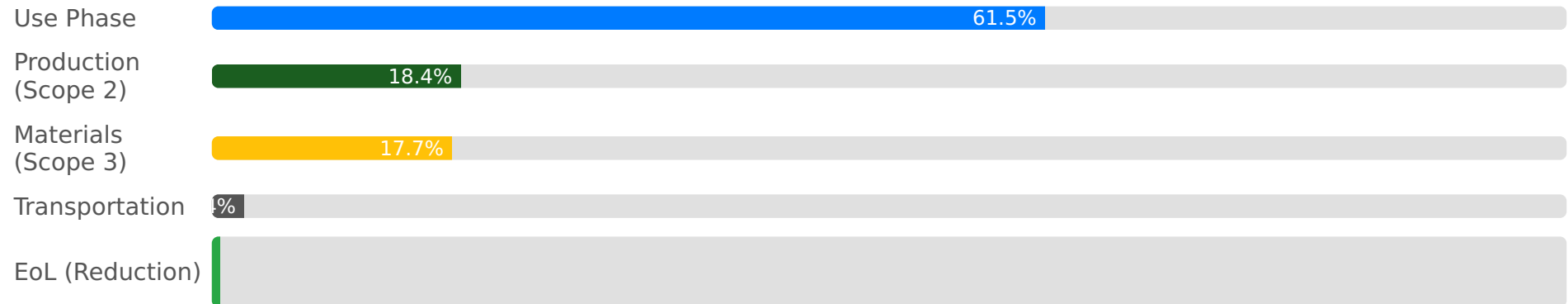
Top Material Hotspot

Main PCB (33.3%)

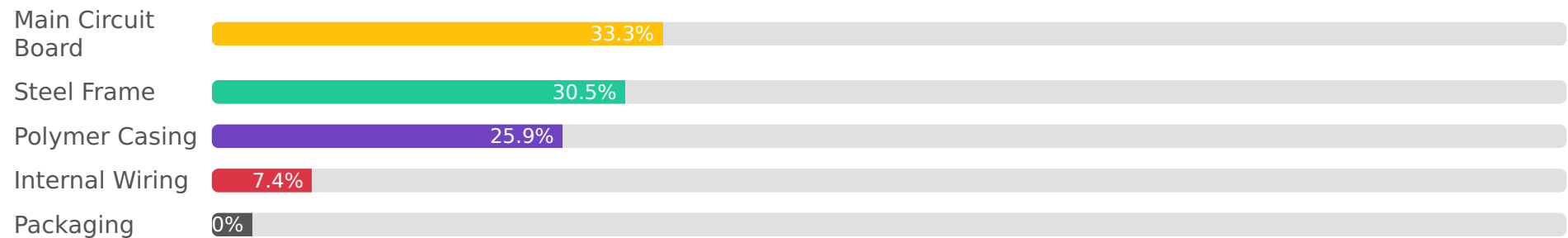
Primary Emission Scope

Scope 3 (Use Phase)

Lifecycle Stage Breakdown



Material Carbon Impact



Key Insights & Hotspots

Use Phase Dominance: The product's operational life accounts for 61.5% of the total carbon footprint, making energy efficiency a critical design focus.

Manufacturing & Materials Impact: Purchased electricity for production (18.4%) and embodied emissions in materials (17.7%) are significant contributors, highlighting supply chain and energy sourcing importance.

Circular Economy Success: Robust recyclability (75%) and take-back programs lead to a net carbon reduction at End-of-Life, demonstrating the positive impact of circularity initiatives.

Action Plan for Reduction

Optimize Use Phase Efficiency: Invest in R&D for lower energy consumption, smart power modes, and consumer education for qqueuehpilw's operational life.

Increase Renewable Energy: Enhance renewable energy sourcing for manufacturing in China (currently 60%), exploring PPAs or on-site generation.

Sustainable Material Procurement: Integrate more recycled, bio-based, or lower-carbon materials into the Bill of Materials (BOM) to reduce embodied emissions.