carboncalcpcf.com

mifoqmngot Carbon Footprint Dashboard

32.94 kg CO2e / unit

Report Generated: May 18, 2026

32.94

Total PCF (kg CO2e)

32.94

Carbon Intensity (kg CO2e/unit)

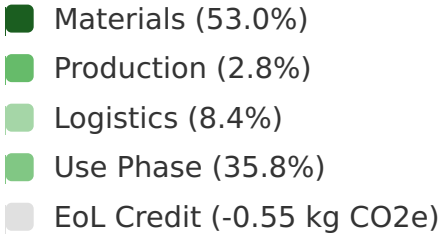
Lithium-ion Battery

Top Material Hotspot

Scope 3

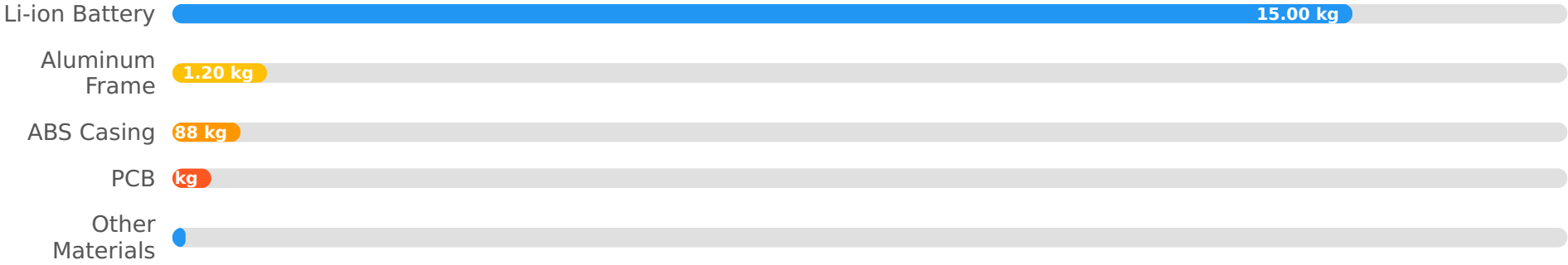
Primary Emission Scope

Lifecycle Stage Breakdown



Note: Percentages based on positive emissions. End-of-Life is a net credit.

Material Carbon Impact



Key Highlights & Insights

Material Impact Dominance: Raw materials, particularly the Lithium-ion Battery (15.00 kg CO2e) and Aluminum Alloy Frame (1.20 kg CO2e), account for over half (53.0%) of mifoqmngot's total carbon footprint. This is a critical area for reduction.

Significant Use Phase Emissions: The energy consumed during the product's estimated 3-year lifespan contributes substantially (12.0 kg CO2e or 35.8%), highlighting the importance of energy-efficient design.

Renewable Energy Mitigation: The use of 50% renewable energy in manufacturing (China) significantly reduces Scope 2 emissions, demonstrating effective carbon mitigation in the production phase, although further efforts are still valuable.

Recommendations for Emissions Reduction

Material Optimization: Investigate alternative, lower embodied carbon materials for components like the battery and frame, and prioritize increasing recycled content.

Energy-Efficient Design: Focus on reducing the product's energy consumption during its use phase (tdzwjhhsix) and explore extending the product's lifespan (woohoupzuu) to amortize its initial carbon impact over a longer period.

Supply Chain Engagement: Collaborate with suppliers to increase their renewable energy usage beyond gjmzgehipk, further reducing upstream (Scope 3, Cat 3) and manufacturing (Scope 2) emissions.

Logistics Efficiency: Optimize transport routes and modes for upstream and downstream logistics (kkvnhisphn, Select Mode), prioritizing sea or rail freight over air, and exploring localized sourcing where feasible.

Circular Economy Programs: Enhance and promote take-back programs (jrqnrnrzyx) to maximize recyclability (lwwosqswts), recovering valuable materials and generating further end-of-life credits.