

html

carboncalpcf.com

Product Carbon Footprint Dashboard for "retlshetnq"

A detailed analysis by mhoiyundfi, adhering to GHG Protocol (2026 updates).

Total PCF: 56.67 kg CO₂e
Per 1.0 unit of retlshetnq

Total Carbon Footprint

56.67 kg CO2e

Per 1.0 unit

Production Country

China

Factory Gate Boundary

Top Material Hotspot

Electronic PCB

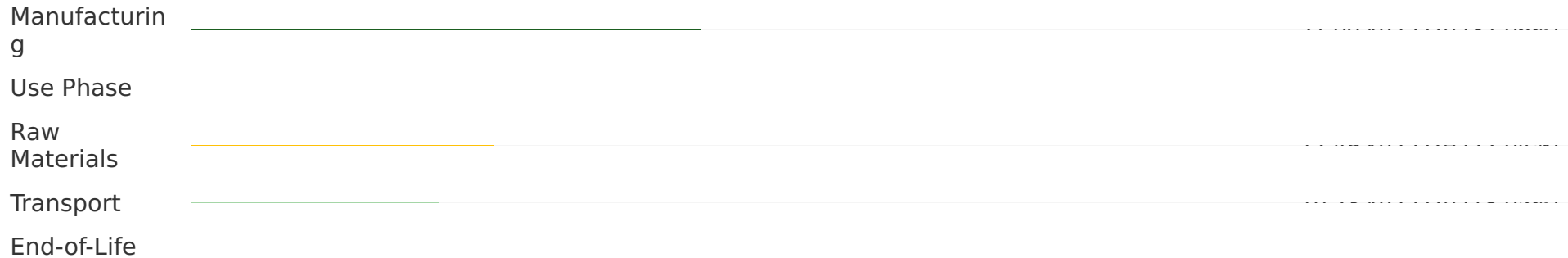
10.00 kg CO2e

Primary Emission Scope

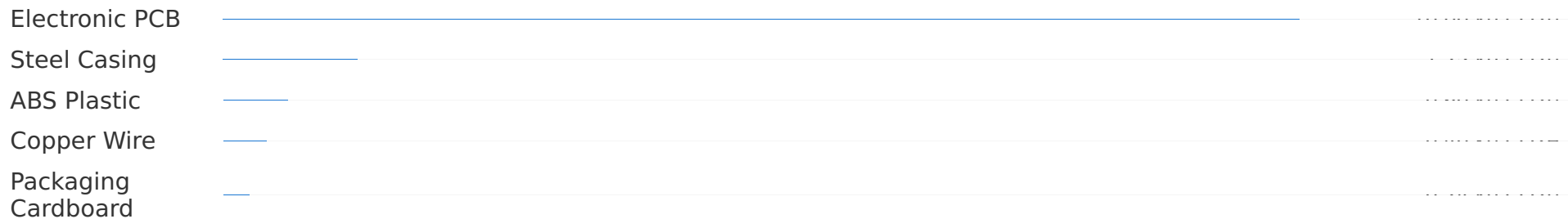
Manufacturing (Scope 2)

21.00 kg CO2e (37.06%)

Lifecycle Stage Breakdown



Material Carbon Impact



Emission Hotspots & Key Insights

- Manufacturing (Scope 2) accounts for 37.06% of the total footprint, making purchased electricity for production in China a significant contributor.
- Raw materials (Scope 3, Category 1) contribute 22.04%, with Electronic PCBs being the largest single material impact.
- The Use Phase (Scope 3, Category 11) and Last-Mile Delivery (Scope 3, Category 9) are also substantial, at 22.06% and 17.65% respectively.

Recommendations for Emission Reduction

- Decarbonize Manufacturing Energy: Invest in renewables or RECs for the China facility to reduce Scope 2 emissions.
- Material Optimization: Explore lower-carbon alternatives for Electronic PCBs, Steel Casing, and ABS Plastic.
- Optimize Last-Mile Delivery: Implement electric vehicles, route optimization, or consolidation centers to mitigate Scope 3 impacts.
- Enhance Product Energy Efficiency: Improve product efficiency during the use phase to reduce Category 11 emissions.