

Product Carbon Footprint Dashboard

carboncalcpcf.com | Product: lzfrvwfqxw

34.70 kg CO₂e

Company: muklxninln | Standard: GHG Protocol

34.70

Total Footprint (kg CO₂e)

34.70

Carbon Intensity (kg CO₂e / unit)

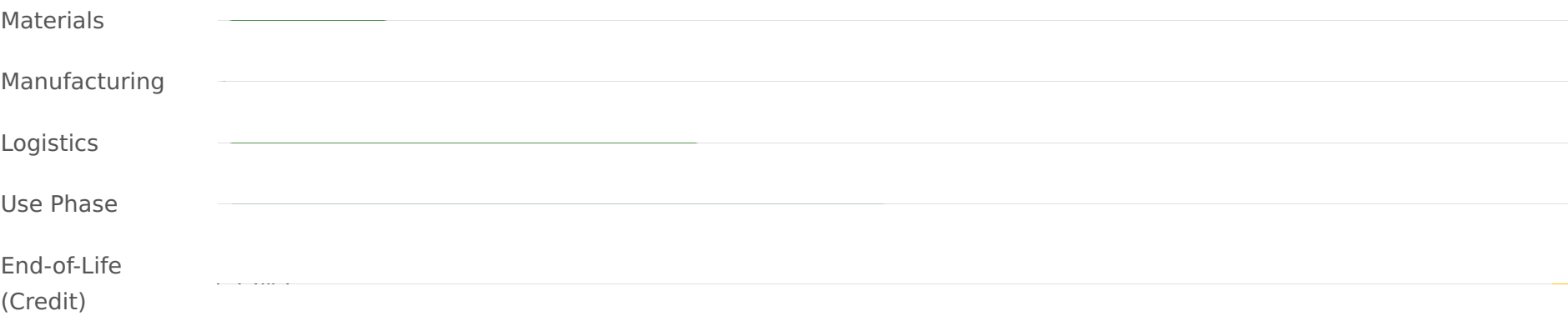
Use Phase

Top Emission Hotspot

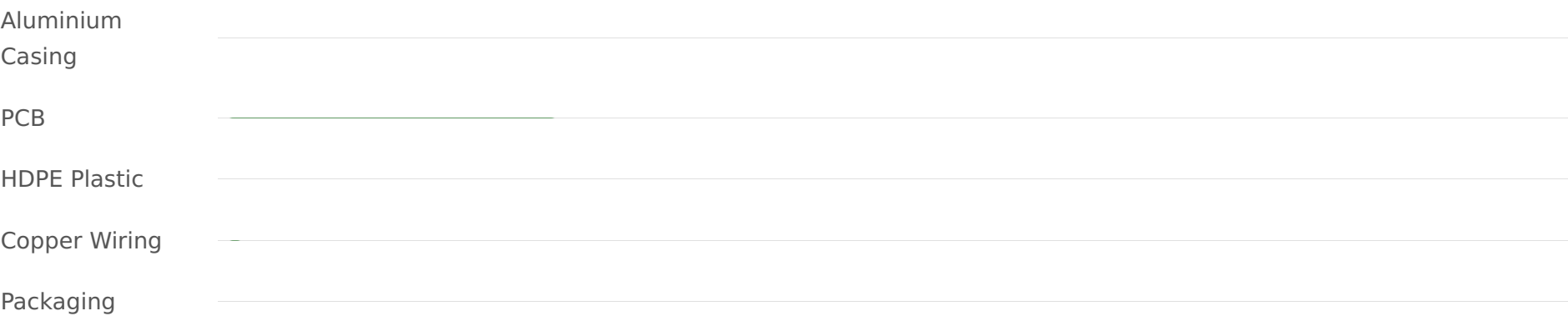
Scope 3

Primary Emission Scope

Lifecycle Stage Breakdown



Material Carbon Impact



Insights & Hotspots

- ✓ **Use Phase Dominance:** The product's energy consumption over its 5-year lifespan contributes a significant 17.5 kg CO2e, making it the largest emission hotspot.
- ✓ **Last-Mile Logistics Impact:** Last-mile delivery accounts for a substantial 12.5 kg CO2e, highlighting transportation as a critical area for optimization due to low product weight and direct delivery assumptions.
- ✓ **Material Embodied Carbon:** Raw material acquisition, particularly for Aluminium and Printed Circuit Boards (PCBs), contributes 4.65 kg CO2e, indicating opportunities for material-level reductions.

Action Plan for Reduction

- ✓ **Enhance Product Energy Efficiency:** Prioritize redesign to reduce energy consumption during the use phase (assumed 10 kWh/year) for the largest impact.
- ✓ **Decarbonize Logistics:** Explore greener options like electric vehicles for last-mile delivery and optimize transport routes for inbound and outbound shipments to mitigate significant transport emissions.
- ✓ **Increase Recycled Content:** Integrate higher percentages of recycled materials, especially for high-impact components like aluminium and plastics, and strengthen circular take-back programs.
- ✓ **Supplier Engagement:** Collaborate with raw material suppliers to understand and reduce their embodied emissions, encouraging the adoption of renewable energy in their production processes.