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Product Carbon Footprint for zviwykulqo

Report by guwwwuxhhi of zupxksmxov - Generated May 20, 2026

40.26 kgCO₂e

Total Footprint

Functional Unit

1.0 unit

System Boundary

factory_gate

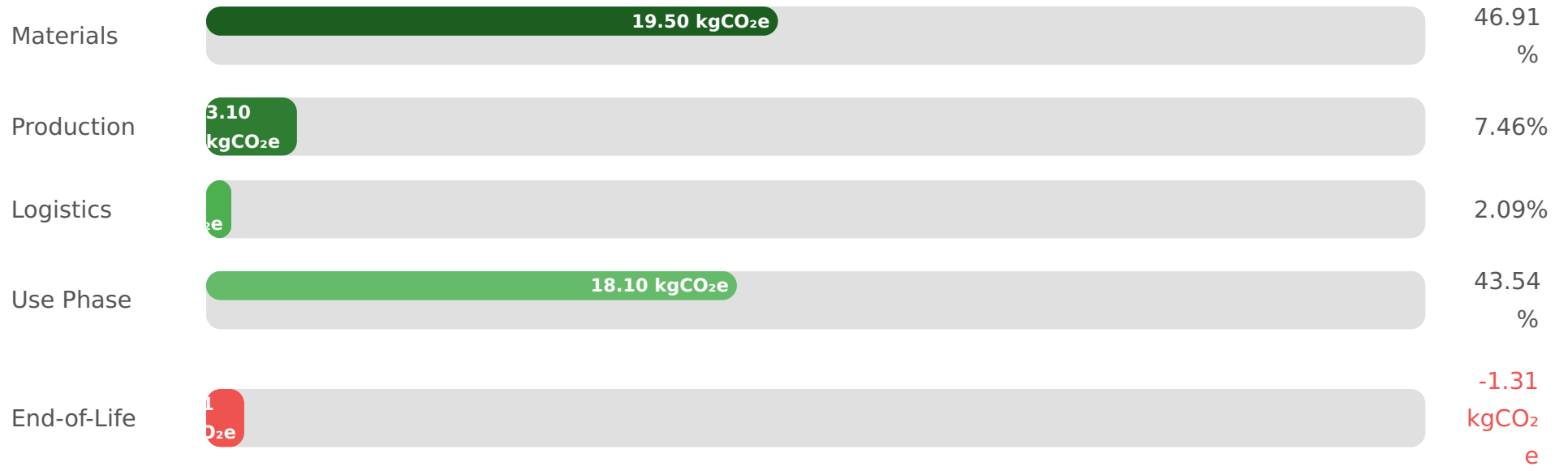
Production Country

China

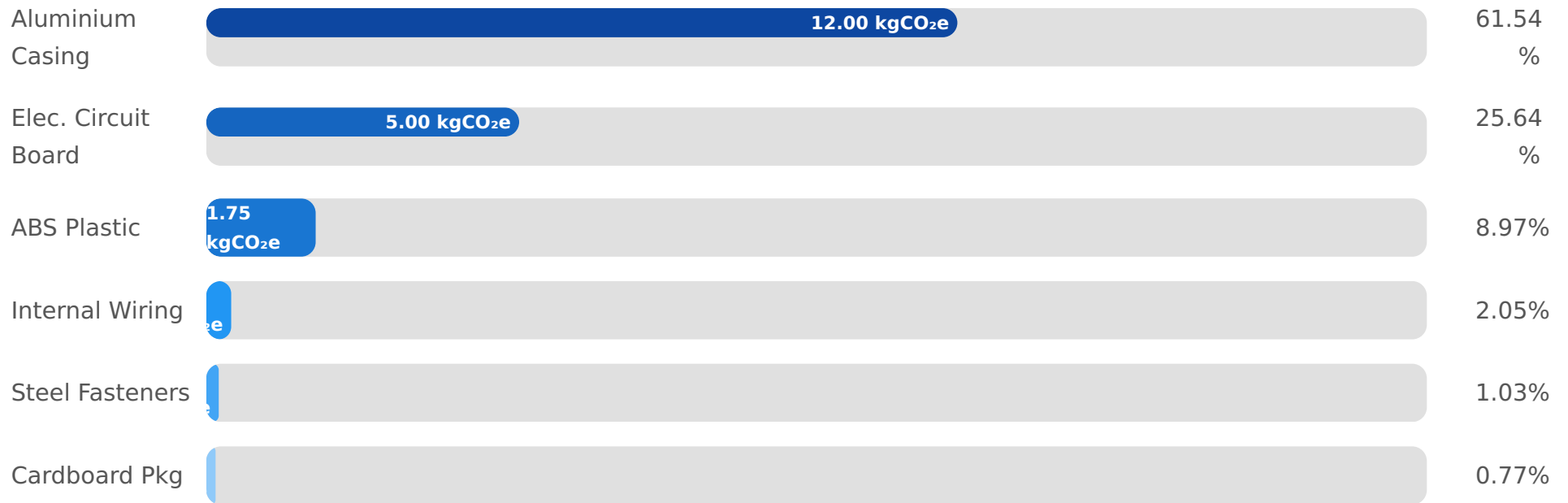
GHG Standard

GHG Protocol

Lifecycle Stage Breakdown



Material Composition vs Carbon Impact



Emission Highlights

Material Production Dominates: Purchased Goods and Services (Scope 3, Category 1) account for ~48.4% of the total positive footprint, with Aluminium Casing and Electronic Circuit Board being key contributors.

Significant Use Phase Impact: Energy consumption during the product's 5-year lifespan contributes ~44.9% of the positive footprint, highlighting the importance of user energy efficiency.

Renewable Energy Leverage: Manufacturing electricity (Scope 2) still contributes ~7.7% despite 50% renewable energy use. Further increasing renewables can reduce this.

Recommendations for Reduction

- 1 Material Optimization:** Focus on lower-carbon materials, increased recycled content, and supplier engagement for primary emission data for high-impact components.
- 2 Energy Efficiency in Use:** Implement design improvements to reduce operational energy consumption and educate end-users on efficient product use.
- 3 Renewable Energy Procurement:** Increase renewable energy sources at the production facility in China to further reduce Scope 2 emissions.
- 4 Logistics Optimization:** Continuously optimize transport routes, modes, and load factors for incremental emission reductions.
- 5 Circular Economy Integration:** Strengthen take-back programs to maximize material recovery, reuse, and high-quality recycling, minimizing landfill waste.