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Product Carbon Footprint for ixspqfrzsf

Analysis for 1.0 unit, Cradle-to-Grave (Factory Gate Scope), China Production

Report by carboncalpcf.com (GHG Protocol Standard)

30.75 kgCO₂e

Total Footprint

30.75

kgCO₂e per unit

Carbon Intensity

30.75

kgCO₂e / unit

Top Material Hotspot

Aluminium Body

2.40 kgCO₂e (76.7%)

Primary Emission Scope

Scope 3

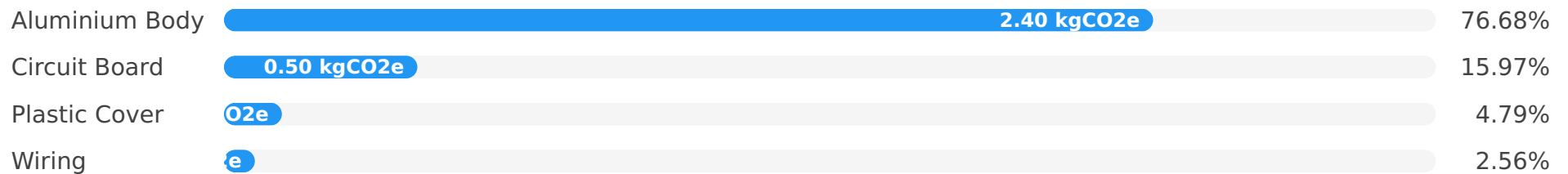
Value Chain Emissions

Lifecycle Stage Breakdown



Note: End-of-Life shows a credit due to recycling avoided burdens.

Material Carbon Impact



Key Emission Hotspots

- **Use Phase (14.00 kgCO₂e):** Largest contributor, driven by electricity consumption over the 5-year product lifespan.
- **Last-Mile Delivery (12.50 kgCO₂e):** Significant impact from the final transport leg to the end-user.
- **Material Acquisition (3.13 kgCO₂e):** Notably, Aluminium Body (2.40 kgCO₂e) is the primary material contributor.

Recommendations for Reduction

- ✓ **Energy Efficiency in Use:** Innovate product design for lower energy consumption during its 5-year lifespan.
- ✓ **Optimize Last-Mile Logistics:** Partner with low-carbon carriers and explore electric vehicle fleets or alternative delivery methods.
- ✓ **Sustainable Material Sourcing:** Prioritize materials with lower embodied carbon, higher recycled content, or green production methods.
- ✓ **Enhance Circularity:** Leverage existing take-back programs and explore repair/refurbishment to extend product life.