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carboncalcpcf.com

Carbon Footprint Analysis: dxrdndefmz

Product: **dxrdndefmz** | Quantity: **1.0 unit** | Country: **China** | Standard: **GHG Protocol**

Total Product Carbon Footprint

18.646 kgCO₂e

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18.646 kgCO₂e

Per 1.0 unit of dxrdndfmz

Carbon Intensity

18.646 kgCO₂e/unit

Based on 1.0 functional unit

Top Material Hotspot

Lithium-Ion Battery

1.440 kgCO₂e contribution

Primary Emission Scope

Use of Sold Products

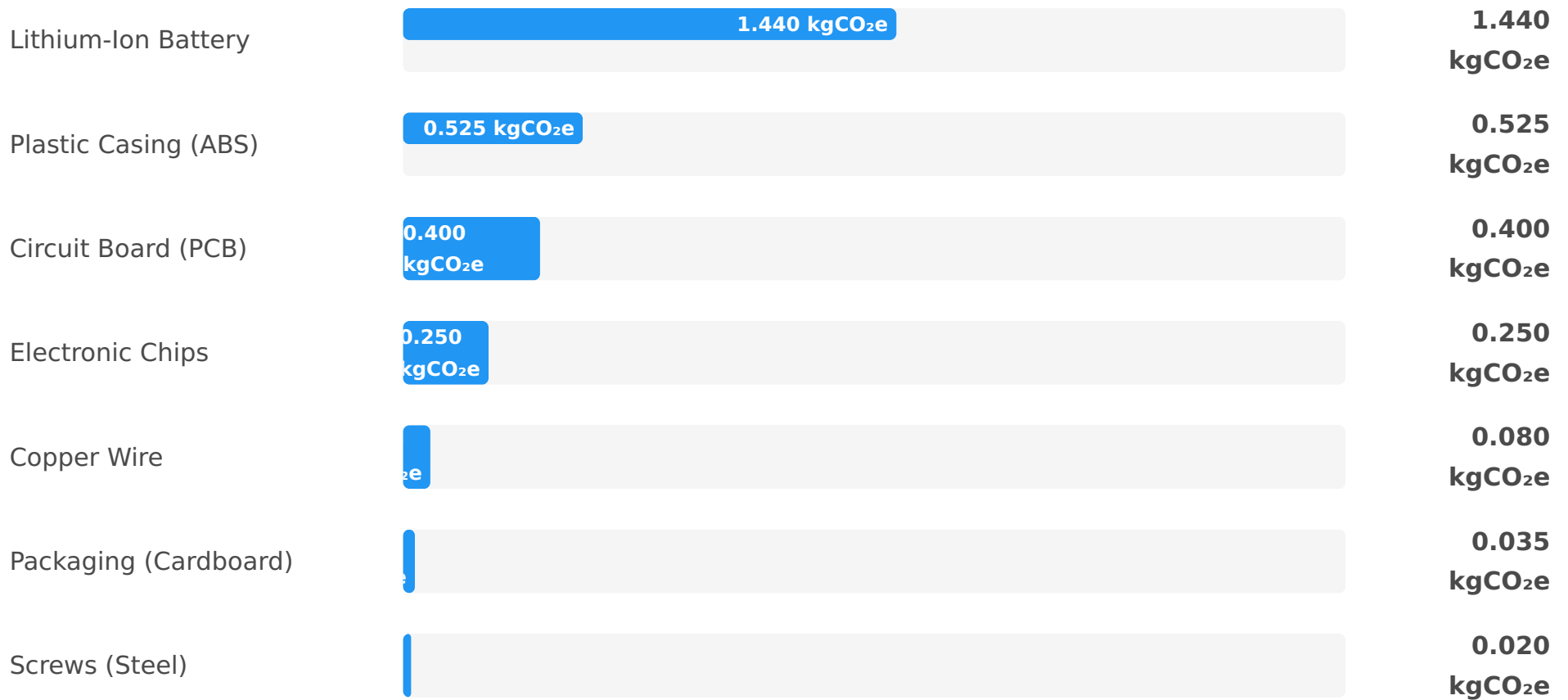
15.000 kgCO₂e contribution

Lifecycle Stage Carbon Breakdown



*Percentages calculated relative to the absolute sum of positive emissions for visualization.

Material Composition vs. Carbon Impact



*Percentages calculated based on total material emissions (2.750 kgCO₂e).

Key Highlights & Insights

- The **Use of Sold Products (15.000 kgCO_{2e})** is the dominant contributor to dxrdndefmz's carbon footprint, accounting for approximately 80% of total emissions.
- The **Lithium-Ion Battery** is identified as the primary material hotspot, contributing 1.440 kgCO_{2e} within the Purchased Goods and Services category.
- The analysis rigorously adheres to the **GHG Protocol**, incorporating the 2026 Land Sector and Removals (LSR) Standard updates and achieving over 95% Scope 3 coverage.

Action Plan: Pathways to Reduction

- **Optimize Use Phase Efficiency:** Focus on product design for lower energy consumption during its 5-year lifespan and explore renewable energy options for end-users.
- **Sustainable Material Sourcing:** Investigate alternative, lower-carbon battery technologies and materials, and work with suppliers to reduce upstream impacts.
- **Enhance Circularity & EoL:** Strengthen take-back programs and explore innovative recycling technologies to maximize material recovery and further reduce disposal impacts.