

html

Product Carbon Footprint Dashboard

vziyzzwxi - Summary Report by carboncalcpcf.com

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14.046 kg CO₂e

Total Product Footprint

14.046

Total PCF (kg CO2e)

1.0

Functional Unit

Materials

Top Emission Hotspot

Scope 3

Key Insights & Highlights

- **Raw Material Acquisition** accounts for the largest share (66.25% of total PCF), driven significantly by primary aluminium and electronics production.
- The **Use Phase** is the second most impactful stage (25.42% of total PCF), highlighting the importance of energy-efficient design.
- **Manufacturing emissions (Scope 2)** are notable (15.09%), pointing to opportunities for increasing renewable energy sourcing in China's production facilities.
- **End-of-Life strategies**, including assumed high recyclability and circular programs, result in a net reduction of emissions (-1.206 kg CO₂e).

Action Plan for Emission Reduction

- **Material Optimization:** Prioritize recycled content and low-carbon materials, engage with suppliers for EPDs.
- **Energy Efficiency:** Invest in R&D for enhanced energy efficiency of vzioyzzwxi during its operational life.
- **Renewable Energy:** Increase renewable energy usage at the manufacturing facility and explore virtual power purchase agreements.
- **Logistics Optimization:** Optimize transport routes and modes for both upstream and downstream logistics, considering lower-emission options.
- **Circular Economy:** Strengthen and expand take-back, recycling, refurbishment, and remanufacturing programs.
- **Data Refinement:** Collect more granular, product-specific primary data for all lifecycle stages to improve accuracy and auditability.