

Product Carbon Footprint: wsipkxqpyg

Report for onfdioyhro • Standard: GHG Protocol • Boundary: Cradle-to-Grave

23.75 kg
CO₂e
carboncalculator.com

Total Footprint (Cradle-to-Grave)

23.75 kg CO₂e

Carbon Intensity

23.75 kg CO₂e/unit

Top Material Hotspot

Lithium-ion Battery

Primary Emission Scope

Scope 3 (Use Phase)

Lifecycle Stage Breakdown (Cradle-to-Grave)

Use Phase

Materials

Production

Logistics

End-of-Life

Key Insights & Hotspots

- The **Use Phase** is the most significant contributor, accounting for **69.47%** of the total carbon footprint due to energy consumption over the product's lifespan.
- **Materials Acquisition & Pre-processing** represents **22.53%** of emissions, with electronics, particularly the Lithium-ion Battery, identified as a primary hotspot.
- **Production Energy** contributes **5.81%** of the total footprint, despite the facility leveraging 50% renewable energy sources.

Material Impact Breakdown (Upstream)

Li-ion Battery

Plastic Casing

Circuit Board

Metal Screws

Packaging

Recommended Action Plan

1. **Enhance Use Phase Efficiency:** Focus on improving product energy efficiency, extending product lifespan, and advocating for users to source renewable energy.
2. **Decarbonize Supply Chain:** Prioritize sourcing lower-carbon materials, increasing recycled content, and actively engaging suppliers in decarbonization initiatives.
3. **Boost Green Manufacturing:** Further increase the procurement of renewable energy or invest in on-site renewable energy generation at manufacturing facilities.