

PCF Dashboard for zvwzeesdkt 360.89 kg CO2e

Company: jmgizjxinf | Standard: GHG Protocol | Boundary: Cradle-to-Grave

Total Product Carbon Footprint

360.89

Total Footprint (kg CO2e/unit)

1.0 unit

Functional Unit

Lithium-ion Battery

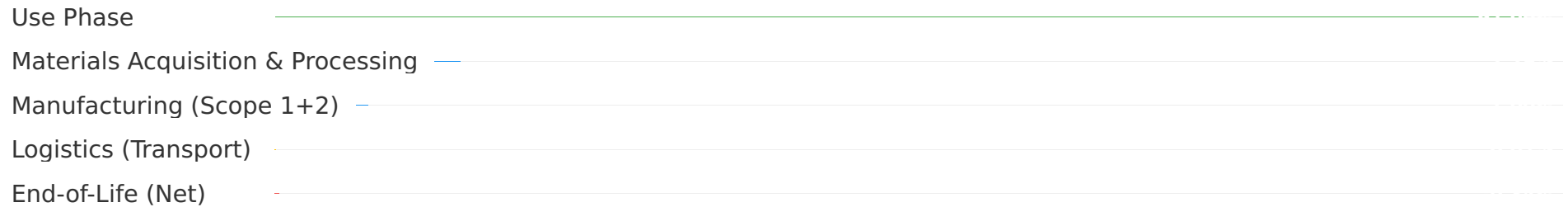
Top Material Hotspot

Scope 3 (99.00%)

Primary Emission Scope

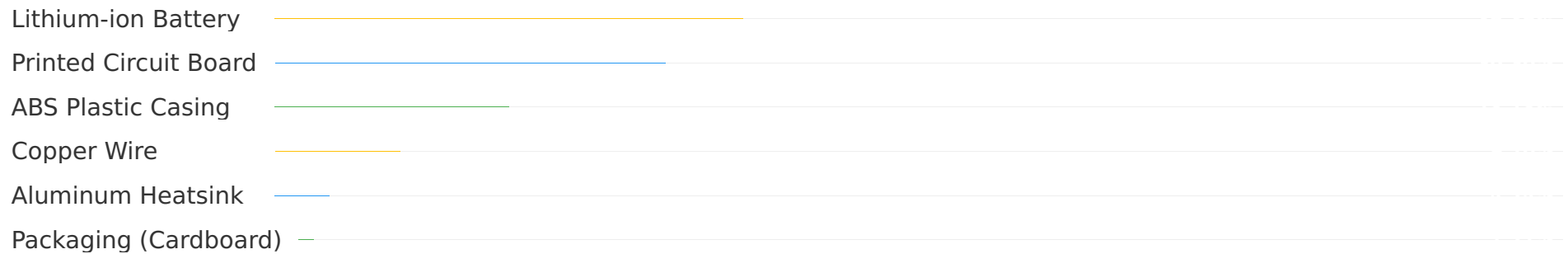
Lifecycle Stage Breakdown

Contribution to Total PCF (%)



Material Carbon Impact

Contribution to Total Material Footprint (8.25 kg CO₂e)



Key Highlights

- ✓ The ****Use Phase**** dominates the product's carbon footprint, contributing an overwhelming 97.00% of total emissions, primarily due to assumed energy consumption during its 5-year lifespan.
- ✓ ****Materials Acquisition & Processing**** represent the second most significant hotspot, accounting for 2.29% of total emissions, with Lithium-ion batteries and Printed Circuit Boards being major contributors within this stage.
- ✓ The ****End-of-Life**** phase shows a net negative contribution (-0.34%) due to a high assumed recyclability rate of 70% and an effective company-run take-back program, demonstrating the benefits of circular economy initiatives.

Recommendations for Emission Reduction

1. **Focus on Use Phase Efficiency:** Prioritize reducing energy consumption during the product's use phase through design improvements, energy-efficient components, and smart power management features. Educating users on efficient usage could also contribute.
2. **Material Optimization:** Explore lightweighting, use of lower-impact materials, and increasing recycled content in the ABS plastic casing and other major components, particularly Lithium-ion batteries and PCBs.
3. **Renewable Energy Sourcing:** Increase the percentage of renewable energy used in manufacturing operations beyond the assumed 50% to further reduce Scope 2 emissions.
4. **Circular Economy Integration:** Strengthen the existing company-run take-back program (rxovdiuptv) to maximize actual recycling rates and ensure high-quality material recovery, further enhancing the positive impact of the End-of-Life phase. Investigate potential for product-as-a-service models or extended product lifetimes.
5. **Supply Chain Engagement:** Work with key suppliers to gather primary data and identify opportunities for emission reductions in material production and inbound logistics.

