html

carboncalcpcf.com

Product Carbon Footprint Dashboard

for **jivxniphtr** (1.0 unit)

Total PCF: 25.86 kgCO2e

Key Metrics Overview

TOTAL CARBON FOOTPRINT

25.86 kgCO2e

CARBON INTENSITY

25.86 kgCO2e/unit

TOP MATERIAL HOTSPOT

Aluminum Casing

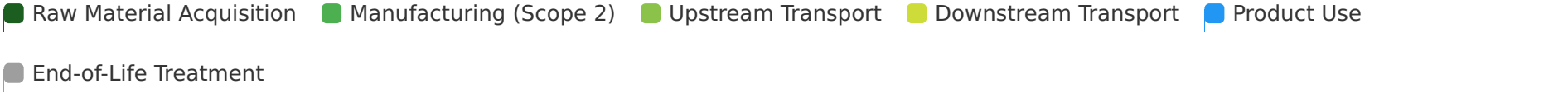
(6.00 kgCO2e)

PRIMARY EMISSION SCOPE

Scope 3

(23.72 kgCO2e)

Lifecycle Stage Breakdown



Top Material Carbon Impact

Highlights & Insights

- **Use Phase Dominates:** The product's operational lifespan (Use Phase) is the largest contributor to the carbon footprint, accounting for 48% of total emissions.
- **Material Impact Significant:** Purchased Goods and Services (raw materials and components) represent the second largest hotspot at 42%, with aluminum, electronics (PCB), and the battery being key drivers.
- **Renewable Energy Success:** Manufacturing emissions are mitigated by 75% renewable energy usage at the production facility, demonstrating a positive step in Scope 2 decarbonization.

Action Plan: How to Reduce Carbon Footprint

- **Enhance Use Phase Efficiency:** Further improve product energy efficiency through R&D and educate users on energy-saving operational patterns.
- **Optimize Material Sourcing:** Increase recycled content in materials like aluminum and plastics, and collaborate with suppliers for lower-carbon alternatives and renewable energy adoption.
- **Strengthen Renewable Energy Procurement:** Aim for 100% renewable energy in manufacturing facilities to eliminate remaining Scope 2 emissions entirely.
- **Refine Logistics:** Continuously evaluate transportation modes for both inbound and outbound logistics, prioritizing lower-emission options like rail or electric vehicles.
- **Expand Circular Economy Initiatives:** Strengthen existing take-back programs and explore product refurbishment and remanufacturing opportunities to extend product lifespans.