

carboncalcpf.com

Product Carbon Footprint (PCF) Dashboard

for **Eco-Widget 3000 (noytozwtuk)**

Report generated by wmsdrzvsfr on May 26, 2026

Total PCF: 53.63 kg CO₂e

TOTAL PRODUCT FOOTPRINT

53.63

kg CO2e / unit

CARBON INTENSITY

64.62

kg CO2e / kg product

TOP MATERIAL HOTSPOT

Aluminum

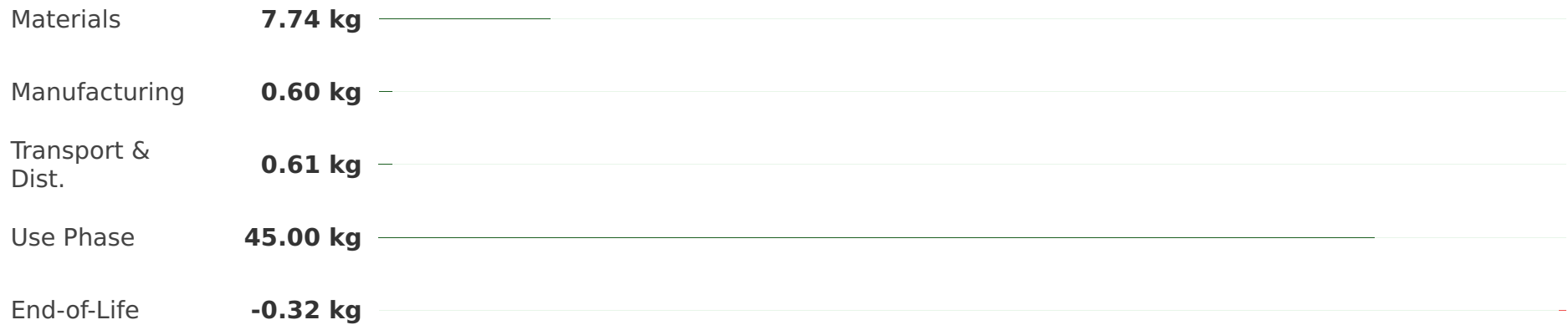
4.50 kg CO2e

PRIMARY EMISSION SCOPE

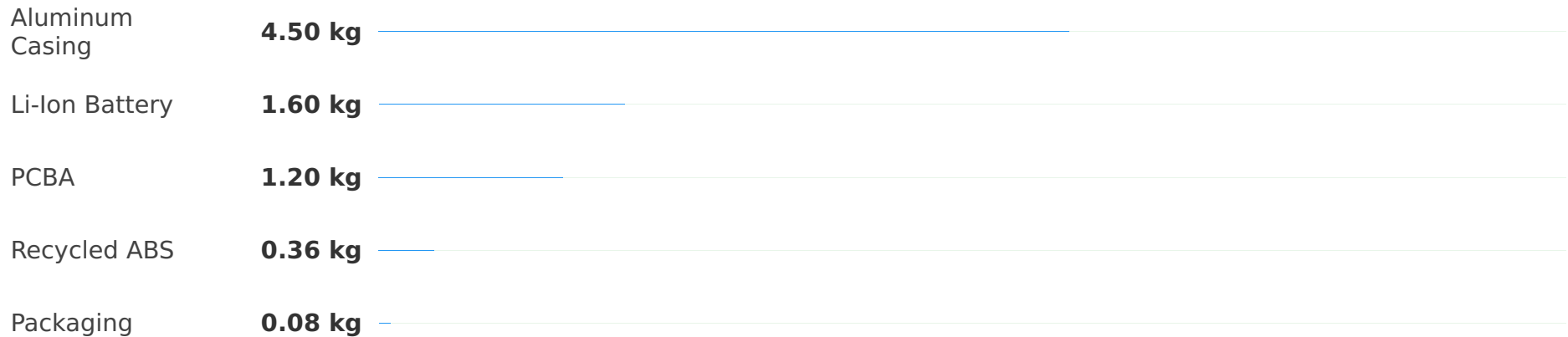
Scope 3

98.88% of total

Lifecycle Stage Breakdown



Material Carbon Impact



Highlights: Key Emission Hotspots

- The **Use Phase** is the overwhelming emission hotspot, contributing approximately 83.91% (45.00 kg CO₂e) of the total carbon footprint due to energy consumption over the product's lifespan.
- **Material Acquisition & Pre-processing** is the second largest contributor (7.74 kg CO₂e), with primary Aluminum Casing and Lithium-Ion Battery identified as key material hotspots.
- **Scope 3 emissions** dominate the product's footprint, accounting for nearly 99% of all emissions, underscoring the importance of value chain engagement.

Action Plan: How to Reduce Your Footprint

1. **Optimize Use Phase Efficiency:** Prioritize design improvements for energy efficiency or explore promoting renewable energy adoption by end-users to significantly cut down the largest emission source.
2. **Enhance Sustainable Sourcing:** Focus on increasing the recycled content for materials like aluminum and plastics, and collaborate with suppliers to minimize the carbon intensity of their manufacturing processes.
3. **Strengthen Circular Economy Initiatives:** Leverage the existing product take-back program to boost material closed-loop recycling, consider refurbishment, and extend product lifespan to reduce reliance on virgin materials.
4. **Proactive Supplier Engagement:** Work closely with supply chain partners to gather more primary emissions data and encourage them to adopt energy-efficient practices and transition to renewable energy sources.

A carbon footprint report powered by carboncalcpcf.com

Confidential - Internal Use Only