

Product Carbon Footprint Dashboard

Product: **Ihxoeffhxs** | Company: **sqxvwjgxml** | Standard: GHG Protocol

Total Carbon Footprint: **40.40 kg CO₂e**

carboncalcpcf.com

Key Metrics

Total Footprint

40.40

kg CO2e per 1.0 unit

Carbon Intensity

42.53

kg CO2e / kg of product

Top Material Hotspot

Aluminum Casing

6.00 kg CO2e

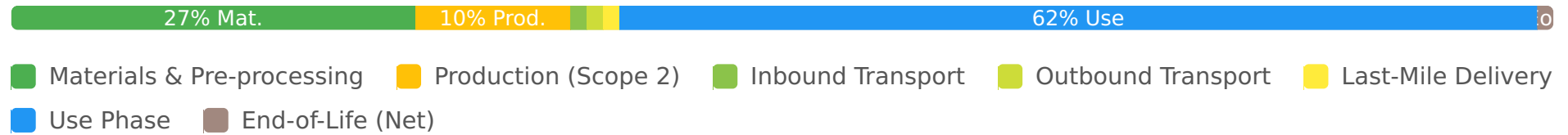
Primary Emission Scope

Use Phase

61.8% of total

Emissions Breakdown

Lifecycle Stage Breakdown (Total 40.40 kg CO2e)



Material Carbon Impact (Top Contributors)

Aluminum Casing	6.00 kg CO2e (54.5%)
Integrated Circuit Board	2.50 kg CO2e (22.7%)
Lithium-ion Battery	1.50 kg CO2e (13.6%)
ABS Plastic Housing	0.70 kg CO2e (6.4%)

Highlights: Critical Impacts

- The **Use Phase** accounts for the largest portion of emissions (61.8%), primarily due to energy consumption over the product's lifespan.
- **Material Acquisition & Pre-processing** is the second-largest hotspot (27.2%), with the Aluminum Casing and Integrated Circuit Board being major contributors.
- **Manufacturing (Scope 2)** contributes a notable 10.4% from purchased electricity, despite 40% renewable energy usage.

Action Plan: Recommendations for Reduction

- **Use Phase Optimization:** Improve the energy efficiency of 'lhxoe fhxs' and encourage users to utilize lower-carbon energy sources.
- **Material Optimization:** Research and integrate alternative, lower-carbon materials or increased recycled content for high-impact components like aluminum and circuit boards.
- **Manufacturing Efficiency:** Boost renewable energy sourcing for production beyond 40% and implement advanced energy-saving technologies in facilities.
- **Circular Economy Integration:** Enhance 'lepjreyjhe' (take-back/refurbishment programs) to maximize material recovery and reuse, reducing reliance on virgin materials.
- **Data Granularity:** Invest in collecting more primary data across the value chain to achieve the 95% Scope 3 coverage target.

