

Product Carbon Footprint for **gkdusgdovp**

Company: uhswsnvitq | **Standard:** GHG Protocol | **Consultant:** ikkmysvtgu

35.08

kg CO₂e / unit

Key Performance Indicators

Total Product Footprint

35.08

kg CO₂e / unit

Carbon Intensity

30.50

kg CO₂e / kg (Product Weight)

Top Material Hotspot

Lithium-Ion Battery

1.60 kg CO₂e

Highlights & Emission Hotspots

- The **Use Phase** (Scope 3, Category 11) is the overwhelming emission hotspot, contributing approximately **88%** of the total footprint (31.03 kgCO₂e) due to energy consumption over the product's lifespan.
- **Material Acquisition** (Scope 3, Category 1) is the second most significant contributor at **14%** (4.83 kgCO₂e), with Lithium-Ion Battery, Aluminum Casing, and PCBA being key material impacts.
- The **End-of-Life** phase provides a notable **net credit** of -1.69 kgCO₂e, demonstrating the positive impact of the product's high recyclability (70%) and established circular programs.

Recommendations for Carbon Footprint Reduction

1. **Optimize Use Phase Efficiency:** Redesign for lower energy consumption and promote renewable energy use by end-users.
2. **Enhance Sustainable Sourcing:** Increase recycled content and collaborate with suppliers for lower-carbon materials, especially for batteries and aluminum.
3. **Strengthen Circular Economy Initiatives:** Fully leverage take-back programs to maximize closed-loop recycling and product lifespan.
4. **Proactive Supplier Engagement:** Work with supply chain partners to gather primary data and encourage sustainable practices.

