

Carbon Footprint Dashboard

Product: hyokfzvmso (1.0 unit)

Company: lzythkdrfu

Standard: GHG Protocol | **Production Country:** China

Total PCF: 19.87 kgCO₂e

Total Footprint

19.87 kgCO₂e

For 1.0 unit of hyokfzvmso

Carbon Intensity

19.87 kgCO₂e/unit

Based on cradle-to-grave analysis

Top Material Hotspot

Aluminum Casing

5.00 kgCO₂e (71.02% of material impact)

Primary Emission Scope

Scope 3

19.42 kgCO₂e (Upstream & Downstream)

Key Highlights

- **Use Phase Dominance:** The product's operational energy consumption (Scope 3, Cat. 11) is the largest contributor, accounting for approximately 63% of its total carbon footprint.
- **Significant Material Impact:** Embodied carbon in purchased goods, particularly Aluminum Casing and the Electronic Board, represents about 35% of overall emissions.
- **Circular Economy Success:** High recyclability and established take-back programs result in a net negative End-of-Life impact, demonstrating effective emission reduction through circularity.

Action Plan for Reduction

- 1 **Optimize Use Phase Efficiency:** Prioritize improvements in product energy consumption during its lifespan through lower-power components, software optimization, and smart energy-saving features.
- 2 **Decarbonize Material Sourcing:** Focus on increasing the use of recycled content and engaging suppliers who utilize renewable energy in their production processes, especially for high-impact materials like aluminum.
- 3 **Enhance Circularity & Data Collection:** Continue strengthening take-back programs and prioritize collecting accurate primary data across the supply chain to further refine PCF analysis and identify additional reduction opportunities.

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