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Product Carbon Footprint Dashboard: zyogzwsdzn

A comprehensive overview of the carbon impact for **1.0 unit** of zyogzwsdzn.

carboncalcpcf.com

Total Carbon Footprint

33.295

kg CO2e per unit

Carbon Intensity

33.295

kg CO2e / unit

Top Material Hotspot

Aluminum Alloy

4.50 kg CO2e

Primary Emission Scope

Scope 3

Value Chain Emissions

Lifecycle Stage Breakdown

Materials (Scope 3)

Production (Scope 2 & 3)

Logistics (Scope 3)

Use Phase (Scope 3)

End-of-Life (Scope 3)

Material Composition Carbon Impact

Aluminum Alloy Casing

Silicon Chipset

Recycled ABS Plastic

Copper Wiring

Packaging Cardboard

Key Insights & Hotspots

Logistics and Use Phase Dominance: Transportation and the product's energy consumption during its lifespan together account for over 75% of the total carbon footprint.

Material Impact: Primary aluminum production for the casing is the single largest material hotspot, contributing significantly to upstream Scope 3 emissions.

GHG Protocol Alignment: The report adheres to GHG Protocol, including principles of the 2026 Land Sector and Removals (LSR) Standard, ensuring comprehensive scope 3 coverage.

Action Plan for Reduction

1. Supply Chain Optimization:

Engage with suppliers to decarbonize high-impact materials (e.g., aluminum, silicon).

Increase recycled content and explore lower-carbon material alternatives.

Optimize transport routes, modes (e.g., rail, sea freight), and utilize electric vehicles for last-mile.

2. Product Design for Energy Efficiency:

Innovate designs to reduce energy consumption during the product's use phase.

Extend product lifespan through durable design, modularity for repairs, and software updates.

3. Renewable Energy Integration:

Increase renewable energy usage at manufacturing facilities (nqyndtiqz%).

Invest in on-site generation or high-quality renewable energy certificates/PPAs.

4. **Circular Economy Initiatives:**

Expand and promote circular/take-back programs to maximize recyclability.

Explore product-as-a-service models or repair services to retain material value.