

html

# ewdneydivgz Carbon Footprint Dashboard

Report by **oqpriiwtj** · Consultant **xxlexpqhel** · Standard: GHG Protocol

TOTAL PRODUCT CARBON FOOTPRINT

**11.48** kgCO<sub>2</sub>e/unit

QUANTITY ANALYZED

**1.0** unit

SYSTEM BOUNDARY

**Factory-Gate**

TOP MATERIAL HOTSPOT

**Aluminum Casing** (2.50 kgCO<sub>2</sub>e)

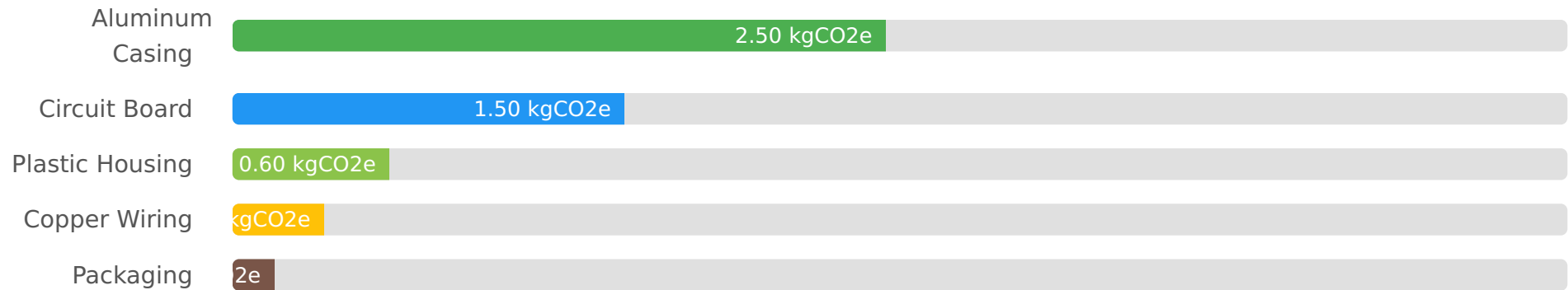
PRIMARY EMISSION SCOPE

**Scope 3** (98.96%)

## Lifecycle Stage Breakdown

Use Phase (52.26%) Materials (44.51%) Transport (2.05%) Manufacturing (1.04%) End-of-Life (0.13%)

## Material Carbon Impact



## Key Insights & Hotspots

- The total Product Carbon Footprint for ewdnydivgz is **11.48 kgCO2e per unit**.
- Scope 3 emissions dominate**, accounting for approximately **98.96%** of the total PCF, highlighting the importance of value chain engagement.

- The most significant hotspots are identified in the **Use Phase (6.00 kgCO<sub>2</sub>e, 52.26%)** and **Material Acquisition (5.11 kgCO<sub>2</sub>e, 44.51%)**.

## Recommendations for Emission Reduction

- ✓ **Use Phase Optimization:** Investigate opportunities to reduce energy consumption during the product's lifespan through energy-efficient designs or software optimizations.
- ✓ **Material Innovations:** Explore alternative, lower-carbon materials for the Aluminum Casing and Circuit Board, prioritizing sourcing with lower embodied carbon.
- ✓ **Supply Chain Engagement:** Collaborate with suppliers to understand and reduce the upstream emissions associated with raw material production.
- ✓ **Circular Economy Initiatives:** Leverage high recyclability (70%) and existing take-back programs to maximize material recovery and minimize virgin material demand.
- ✓ **Renewable Energy Expansion:** Continue investment in and transition to 100% renewable energy for manufacturing operations to further reduce Scope 2 emissions.