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# poevixzilv Carbon Footprint Overview

Detailed PCF analysis for 1.0 unit by gmvyttrntz

**41.79** kg CO<sub>2</sub>e

Total Product Footprint

**41.79 kg CO<sub>2</sub>e**

Per 1.0 unit of poevixzilv

Carbon Intensity

**41.79 kg CO<sub>2</sub>e/kg**

Based on 1.0 kg estimated product weight

Top Material Hotspot

**Circuit Board**

1.50 kg CO<sub>2</sub>e from materials

Primary Emission Stage

**Use Phase**

18.10 kg CO<sub>2</sub>e (43.31% of total)

## Lifecycle Stage Breakdown

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Materials & Manufacturing	3.55 kg CO2e (8.49%)
Production Energy (Scope 2)	8.69 kg CO2e (20.79%)
Logistics & Distribution (Scope 3)	12.68 kg CO2e (30.34%)
Use Phase (Scope 3)	18.10 kg CO2e (43.31%)
End-of-Life (Scope 3)	-1.21 kg CO2e (-2.90%)

## Material Composition vs Carbon Impact

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Steel Casing

**1.25 kg CO2e**

Plastic Enclosure

**0.60 kg CO2e**

Circuit Board

**1.50 kg CO2e**

Wiring

**0.20 kg CO2e**

Total Material-Related Carbon: 3.55 kg CO2e

## Key Highlights & Insights

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- The **\*\*Use Phase\*\*** is the dominant carbon hotspot, accounting for 43.31% of the total footprint, driven by energy consumption over the product's lifespan.
- **\*\*Logistics & Distribution\*\*** contribute significantly (30.34%), emphasizing the impact of transport distances and modes for both upstream and downstream activities.
- The **\*\*Circuit Board\*\*** is the highest emitting component in the Bill of Materials, indicating a critical area for material and design optimization.

## Recommended Decarbonization Actions

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- **Enhance Energy Efficiency:** Focus on product design to drastically reduce energy consumption during the 5-year use phase.
- **Optimize Logistics:** Explore shorter supply chains, consolidate shipments, and shift to lower-carbon transport options (e.g., rail, sea freight) for main transport routes.
- **Sustainable Material Sourcing:** Prioritize sourcing lower-carbon or recycled content for components like the Circuit Board and other high-impact materials.
- **Boost Circularity:** Further develop and promote the existing "Yes, Advanced Recycling Program" to exceed 70% recyclability.