

html

# xwxpoliqow Carbon Footprint Dashboard

34.31 kg CO<sub>2</sub>e / unit

[carboncalcpcf.com](http://carboncalcpcf.com)

TOTAL FOOTPRINT (CRADLE-TO-GRAVE)

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

Full lifecycle emissions from raw materials to end-of-life.

FACTORY-GATE FOOTPRINT

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

Emissions up to product leaving the manufacturing facility.

TOP MATERIAL HOTSPOT

**Circuit Board (1.50 kg CO<sub>2</sub>e)**

Single largest material contributor within raw material acquisition.

PRIMARY EMISSION SCOPE

**Use Phase (Scope 3)**

The largest contributor to the overall product carbon footprint.

**Lifecycle Stage Breakdown (Cradle-to-Grave)**

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- The Use Phase is the dominant contributor, accounting for approximately 73% (25.0 kg CO<sub>2</sub>e) of the total cradle-to-grave PCF.
- Raw Material Acquisition and Production is the second most significant hotspot, contributing about 12% (4.11 kg CO<sub>2</sub>e) to the total footprint.
- Purchased Electricity for Manufacturing (Scope 2) contributes approximately 13% (4.50 kg CO<sub>2</sub>e), highlighting the impact of the energy mix.
- End-of-Life demonstrates a net avoided emission of -0.55 kg CO<sub>2</sub>e/unit due to high recyclability and effective take-back programs.

## Recommendations for Reduction

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- **Optimize Use Phase Efficiency:** Redesign xwxpoliqow for lower energy consumption during its operational lifespan and encourage renewable energy at the user end.
- **Enhance Manufacturing Renewable Energy:** Increase the current 50% renewable energy usage in China's production facilities to reduce Scope 2 emissions.
- **Sustainable Material Sourcing:** Explore lower-carbon materials, increase recycled content, and source materials locally to cut upstream transport.
- **Strengthen Circularity:** Expand existing take-back programs and explore refurbishment/remanufacturing to maximize avoided emissions.
- **Supply Chain Engagement:** Collaborate with suppliers to reduce their carbon footprints, especially for high-impact materials and processes, improving data accuracy.