

Product Carbon Footprint Dashboard

For Product: **qvptknqmjf (EcoWidget Pro)**

Report by: carboncalcpcf.com

53.95 kgCO₂e

Total PCF per unit

Total Footprint

53.95 kgCO2e

per 1.0 unit (EcoWidget Pro)

System Boundary

Factory Gate

with extended upstream/downstream

Primary Emission Scope

Scope 3

95.43% of total PCF

Top Material Hotspot

Li-ion Battery

20.00 kgCO2e (53.40% of material carbon)

Key Insights & Hotspots

Material Dominance: Purchased Goods and Services (materials, especially PCB & Li-ion Battery) account for the vast majority (69.42%) of the PCF.

Use Phase Impact: Energy consumption during the product's 5-year illustrative lifespan is a significant contributor (23.17%) to downstream emissions.

Scope 3 Criticality: Over 95% of total emissions fall under Scope 3, emphasizing the need for comprehensive value chain engagement.

Recommendations for Reduction

- **Supply Chain Engagement:** Collaborate with suppliers of high-impact components (PCB, Battery) to source lower-carbon alternatives and promote renewable energy.
- **Product Design:** Optimize energy efficiency for the use phase and implement modular designs to extend product lifespan and facilitate repair.
- **Manufacturing Decarbonization:** Increase renewable electricity procurement for manufacturing facilities beyond the current 30% illustrative usage.
- **Circular Economy:** Expand and promote existing take-back programs to enhance collection and recycling rates for end-of-life products.

Data based on GHG Protocol standards and 2026 LSR updates. All values illustrative.

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