

Carbon Footprint Dashboard for pxezzfpokw

Smart IoT Device | xxithlgtut

Total Product Carbon Footprint

10.445 kg CO2e

per unit

Carbon Intensity

46.42 kg CO2e

per kg of product

Top Material Hotspot

PCB

0.800 kg CO2e

Lifecycle Stage Breakdown

Emissions by Lifecycle Stage

Use Phase	7.500 kg CO2e (71.81%)
Material Acquisition & Pre-processing	2.269 kg CO2e (21.72%)
Purchased Electricity (Production)	0.450 kg CO2e (4.31%)
Downstream Transportation	0.116 kg CO2e (1.11%)
Upstream Transportation	0.090 kg CO2e (0.86%)
End-of-Life Treatment	0.020 kg CO2e (0.19%)

Top Material Carbon Impacts

Printed Circuit Board (PCB)	0.800 kg CO2e
Lithium-ion Battery	0.750 kg CO2e
ABS Plastic Enclosure	0.375 kg CO2e

Total Material Carbon Footprint: **2.269 kg CO2e**

Highlights & Key Hotspots

- The **Use Phase accounts for 71.81%** of the total footprint, making product energy efficiency a critical area for reduction.
- **Material Acquisition & Pre-processing (21.72%)**, especially for components like PCBs and Lithium-ion batteries, is the second largest contributor.
- Despite 50% renewable energy usage, **purchased electricity for production** still contributes 4.31% of emissions.
- Long-distance **transportation** for the Europe-China supply chain contributes a notable 1.97% (Upstream + Downstream).

