

rgeowolftw Carbon Footprint Dashboard

EcoWidget X1 by hrqyorjqhi

18.271 kg CO₂e

Total Product Carbon Footprint

Functional Unit

1.0

unit

Carbon Intensity

18.271

kg CO₂e / unit

Top Material Hotspot

Recycled Aluminum

1.75 kg CO₂e

Primary Emission Scope

Use Phase

68.64% of total

Lifecycle Stage Breakdown

Use Phase	68.64%
Materials	22.97%
Production (Scope 1 & 2)	2.06%
Transport & Distribution	1.49%
End-of-Life	0.77%
Scope 1 (Direct)	0.00%

Material Carbon Impact

Recycled Aluminum	1.75 kg
Lithium-Ion Battery	1.20 kg
Silicon Chipset	0.75 kg
Bio-Plastic Casing	0.42 kg
Packaging (Recycled)	0.064 kg

Highlights: Key Emission Hotspots

- Use Phase Dominance:** The product's operational lifespan contributes a staggering 68.64% of its total carbon footprint, making it the primary area for intervention.

- **Material Impact:** Purchased goods and services, particularly raw materials like recycled aluminum and lithium-ion batteries, account for a significant 22.97% of emissions.
- **Mitigated Production:** Despite manufacturing in China, the high 75% renewable energy usage at the production facility keeps its direct Scope 2 emissions relatively low at 2.06%.

Recommendations for Reduction

- **Use Phase Optimization:** Focus on designing more energy-efficient products and educating users on energy-saving practices.
- **Material Innovations:** Increase recycled/bio-based content and explore low-carbon alternatives for high-impact components, engaging with suppliers for upstream emission reductions.
- **Renewable Energy Expansion:** Maintain/increase renewable energy procurement and investigate direct generation (e.g., rooftop solar) at manufacturing sites.
- **Circular Economy Enhancement:** Continuously improve take-back logistics, refurbishment processes, and design for easier disassembly and repair.

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Report Generated: June 1, 2026 | Standard: GHG Protocol