

html

Carbon Footprint Dashboard

Product: dwewttjfxw | **Company:** grugeymrri

Standard: GHG Protocol | **Production Country:** China

24.46 kg CO2e
Total Product Footprint

Total Footprint

24.46

kg CO2e

For 1.0 unit of dwewttjfxw

Carbon Intensity

24.46

kg CO2e/unit

Per functional unit

Top Material Hotspot

Aluminum Casing

3.75 kg CO2e from materials

Primary Emission Scope

Use Phase

15.00 kg CO2e (61.33%)

Lifecycle Stage Breakdown

Use Phase	15.00 kg CO2e (61.33%)
Material Acquisition & Pre-processing	7.81 kg CO2e (31.92%)
Production Phase (Scope 2)	0.83 kg CO2e (3.41%)
End-of-Life Treatment	0.30 kg CO2e (1.23%)
Upstream Transportation	0.28 kg CO2e (1.13%)
Downstream Transportation	0.24 kg CO2e (0.98%)

The **Use Phase** is the leading emission hotspot, contributing over 61% (15.00 kg CO₂e) of the total product carbon footprint. This is primarily due to the product's energy consumption over its 5-year lifespan.

Material Acquisition & Pre-processing accounts for nearly 32% (7.81 kg CO₂e) of emissions, with Aluminum Casing being the single largest material contributor within this category.

The production facility in China significantly mitigates its Scope 2 emissions by utilizing **70% renewable energy** for its electricity consumption, reducing the impact of the production phase to 0.83 kg CO₂e.

Recommended Action Plan

- Enhance Energy Efficiency in Use:** Prioritize R&D efforts to significantly reduce the product's energy consumption during its operational lifespan to directly address the largest emission hotspot.
- Explore Sustainable Material Alternatives:** Investigate and implement lower-impact, recycled, or alternative materials for components like aluminum and plastics, focusing on high-impact items such as the Aluminum Casing and Main Circuit Board.
- Strengthen Circular Economy Initiatives:** Leverage the existing regional take-back scheme and explore further opportunities for product longevity, repairability, and higher actual recycling rates to minimize End-of-Life impacts.

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