

html

Product Carbon Footprint Dashboard

Product: tmxzyovltm | **Company:** qjkoxywimy

Total PCF: **14.14 kg CO2e / unit**

Report Generated: May 22, 2026 | Standard: GHG Protocol

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Total Product Footprint

14.14

kg CO2e / unit

Carbon Intensity (per unit)

14.14

kg CO2e / unit

Top Material Hotspot

Aluminum Casing & PCB

~34.5% each of material emissions

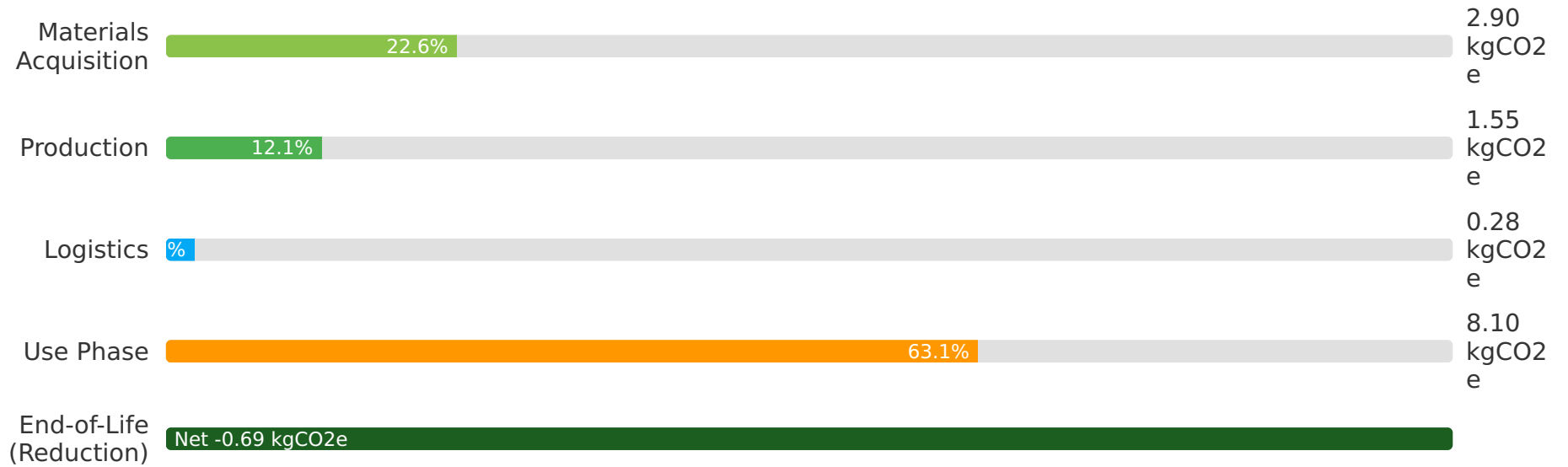
Primary Emission Scope

Use Phase

55.9% of total PCF

Emission Breakdown

Lifecycle Stage Contribution (of positive emissions)



Material Carbon Impact (of total material emissions)



Key Highlights

- ✓ **Dominant Use Phase Emissions:** The product's use phase accounts for over half (55.9%) of its total carbon footprint, making it the most significant hotspot.
- ✓ **Material Impact:** Purchased goods and services, particularly raw materials like Aluminum and PCBs, contribute significantly (20.0%) to the overall PCF.
- ✓ **Production Energy Footprint:** Despite 50% renewable energy usage, purchased electricity for manufacturing still contributes 10.7% of the total emissions.

Strategic Reduction Plan

- ✓ **Enhance Product Energy Efficiency:** Focus R&D on drastically reducing energy consumption during the product's operational lifespan.
- ✓ **Optimize Material Sourcing:** Engage with suppliers for primary data and prioritize materials with lower embedded carbon or higher recycled content.
- ✓ **Increase Renewable Energy Adoption:** Aim for 100% renewable electricity in manufacturing facilities through direct generation or PPAs.
- ✓ **Strengthen Circular Economy:** Expand and promote the take-back program to maximize recycling and material recovery, further increasing avoided emissions.