

html

etnmhyuger Carbon Footprint Dashboard

Product: etnmhyuger | Company: Ivuhdrmguj | Consultant: oydzowlrrd

Standard: GHG Protocol | System Boundary: Cradle-to-Grave

39.74 kgCO₂e

Total Product Carbon Footprint (Net)

Total Footprint

39.74 kgCO2e

per 1.0 unit of etnmhyuger

Carbon Intensity

39.74 kgCO2e/unit

Functional Unit: 1.0 unit

Top Material Hotspot

Aluminum Alloy

50.34% of Material Emissions

Primary Emission Scope

Scope 3

36.74 kgCO2e (92.45% of total)

Lifecycle Stage Breakdown (kgCO2e)

Material Acquisition	7.45 kgCO2e (18.75%)
Upstream Transportation	0.06 kgCO2e (0.15%)
Manufacturing (Production Energy)	3.00 kgCO2e (7.55%)
Downstream Transportation	2.50 kgCO2e (6.29%)
Use Phase	30.00 kgCO2e (75.50%)
End-of-Life (Net Credit)	-3.26 kgCO2e (-8.20%)

Material Carbon Impact Breakdown (kgCO2e)

Aluminum Alloy	3.75 kgCO2e (50.34%)
Circuit Board	2.00 kgCO2e (26.85%)
ABS Plastic	0.90 kgCO2e (12.08%)

Copper Wire

0.50 kgCO₂e (6.71%)

Packaging Cardboard

0.30 kgCO₂e (4.03%)

Highlights & Key Hotspots

- The **Use Phase** is the dominant emission hotspot, contributing **30.00 kgCO₂e (75.5%)** to the total footprint, primarily due to electricity consumption over the product's 5-year lifespan.
- **Material Acquisition** accounts for **7.45 kgCO₂e (18.7%)**, with Aluminum Alloy being the single largest contributor within this stage.
- **End-of-Life** activities provide a significant **-3.26 kgCO₂e** reduction, reflecting the positive impact of high recyclability (70%) and refurbishment programs.

Strategic Reduction Opportunities

1. **Use Phase Optimization:** Prioritize designing for **energy efficiency** and encourage end-users to power the product with **renewable electricity**.
2. **Material Optimization:** Increase the use of **recycled content**, especially for high-impact materials like Aluminum and ABS plastic, and explore **lightweighting** opportunities.
3. **Production Energy Transition:** Further **increase renewable energy sourcing** at the manufacturing facility beyond the current 50%.
4. **End-of-Life Enhancement:** Strengthen and expand **circular/take-back programs** for refurbishment and improve overall **recyclability** and ease of material separation.

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Data derived from a high-detail PCF analysis adhering to GHG Protocol and 2026 LSR Update considerations.