

# Product Carbon Footprint Dashboard

Product: utnrxowuu

**35.458** kg CO<sub>2</sub>e

[carboncalcpcf.com](https://carboncalcpcf.com)

# Key Metrics

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TOTAL PCF

**35.458**

kg CO2e per unit

PRIMARY EMISSION SCOPE

**Scope 3**

Value Chain

TOP HOTSPOT (MATERIALS)

**Aluminum Casing**

3.75 kg CO2e

RENEWABLE ENERGY USE

**75%**

in Production

RECYCLABILITY



**80%**

at End-of-Life



# Emissions Breakdown

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## Lifecycle Stage Contributions (Positive Emissions)

Material Acquisition	6.000 kg CO2e (14.9%)
Manufacturing (Energy)	0.124 kg CO2e (0.3%)
Transportation	0.125 kg CO2e (0.3%)
Use Phase	33.987 kg CO2e (84.5%)
End-of-Life (Credit)	-4.778 kg CO2e

Credit

## Material Carbon Impact Breakdown



## Highlights & Emissions Hotspots

- The **Use Phase** is the most significant contributor to the product's carbon footprint, accounting for approximately 84.5% of positive emissions.
- **Material Acquisition**, particularly from Aluminum Casing and Circuit Board, is the second largest positive hotspot.
- The **End-of-Life** stage generates a substantial carbon credit (-4.778 kg CO<sub>2</sub>e) due to a high 80% recyclability rate and a comprehensive take-back program.

## Recommendations for Reduction

- **Enhance Use Phase Efficiency:** Focus on reducing the product's daily energy consumption (lnqvnsohk) and extending its lifespan (hjkohfqndz) through durable design.
- **Optimize Material Sourcing:** Investigate lower-carbon alternatives for high-impact materials like Aluminum Casing and Circuit Boards, or increase recycled content.
- **Strengthen Circularity:** Continue and expand the comprehensive take-back program to maximize recycling and material recovery, further increasing EoL credits.