

# Product Carbon Footprint for pdtroqmhst

**45.25**  
**kgCO<sub>2</sub>e**

(per 1.0  
unit)

Functional Unit

**1.0 unit**

Product: pdtroqmhst

Carbon Intensity

**45.25 kgCO<sub>2</sub>e/unit**

Based on 1.0 unit

Top Material Hotspot

**Aluminium Casing**

7.39 kgCO<sub>2</sub>e (62% of materials)

Primary Emission Scope

**Scope 3**

95.88% of Total Footprint

## Key Carbon Hotspots & Highlights

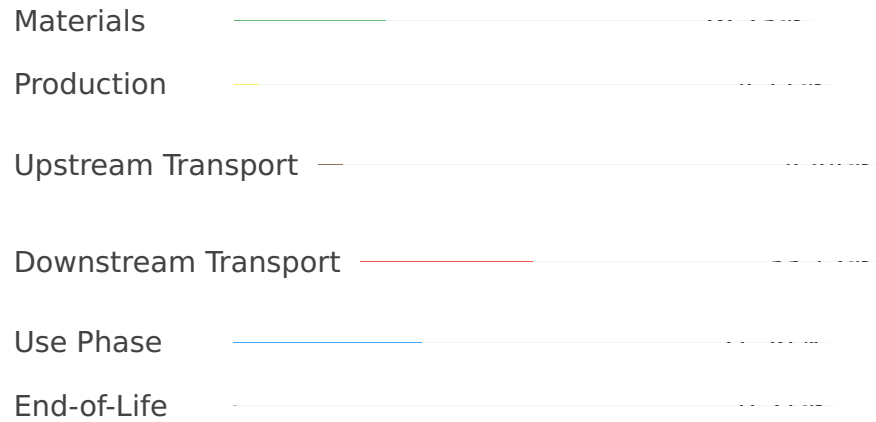
- **Downstream Transportation (33.15%):** The largest hotspot, primarily due to last-mile delivery assumptions (100 km per unit by Light Commercial Vehicle).
- **Use Phase (31.56%):** Significant emissions from energy consumption over the product's 3-year lifespan, assuming European grid electricity.
- **Purchased Goods and Services (26.23%):** Materials, especially the Aluminium Casing and Lithium-ion Battery, are major upstream contributors.
- **Production (4.11%):** While lower than other phases, current manufacturing in China (40% renewable energy) still presents an opportunity for reduction.

## Decarbonization Action Plan

- **Optimize Logistics:** Implement strategies for consolidating shipments, exploring more efficient transport modes, or localizing distribution centers to reduce last-mile impacts.
- **Enhance Product Efficiency:** Design for improved energy efficiency during the use phase and aim to extend product lifespan to dilute per-year emissions. Promote renewable energy use by end-users.
- **Sustainable Sourcing:** Prioritize sourcing lower-carbon materials, increasing recycled content in components like Aluminium, and actively engaging with suppliers for their decarbonization initiatives.
- **Increase Renewable Energy Use:** Target higher renewable energy procurement at the manufacturing facility in China (beyond the current 40%) to reduce Scope 2 emissions.
- **Improve End-of-Life:** Explore expanded take-back programs and advanced recycling technologies to further minimize landfill contribution and maximize material circularity.

## Lifecycle Stage Breakdown

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## Material Carbon Impact

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