

# Carbon Footprint Dashboard

carboncalcpcf.com | Product: ekzfmmmlju

 **Total PCF: 47.725 kg**  
**CO<sub>2</sub>e**

 **Total Footprint**

**47.725**

kg CO2e per unit

 **Carbon Intensity**

**22.73**

kg CO2e per kg of product

 **Top Material Hotspot**

**Aluminum Casing**

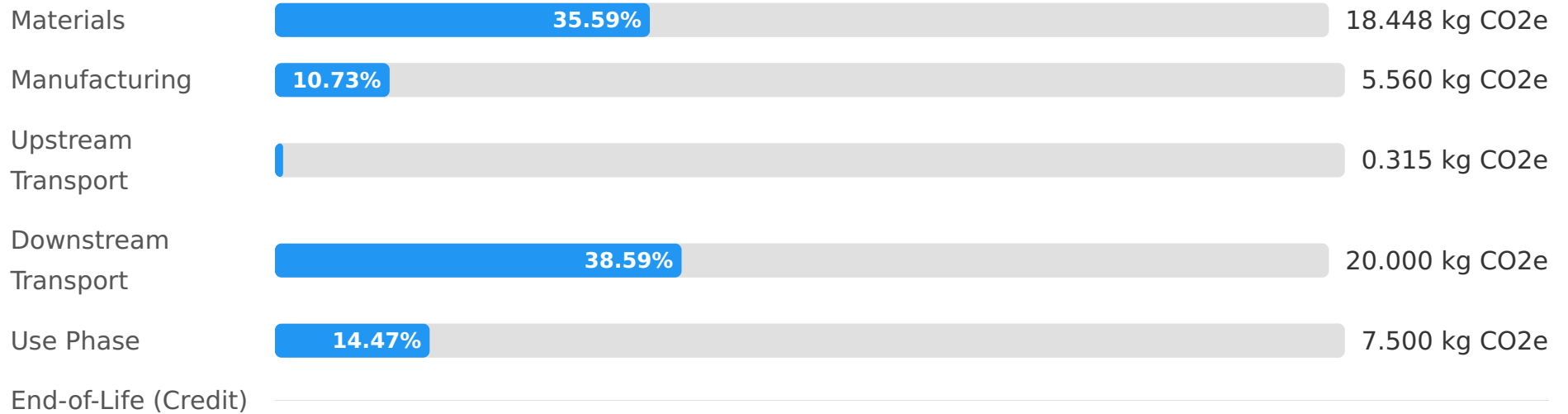
13.528 kg CO2e

□ **Primary Emission Scope**

# Scope 3

Downstream Transport (20.000 kg CO2e)

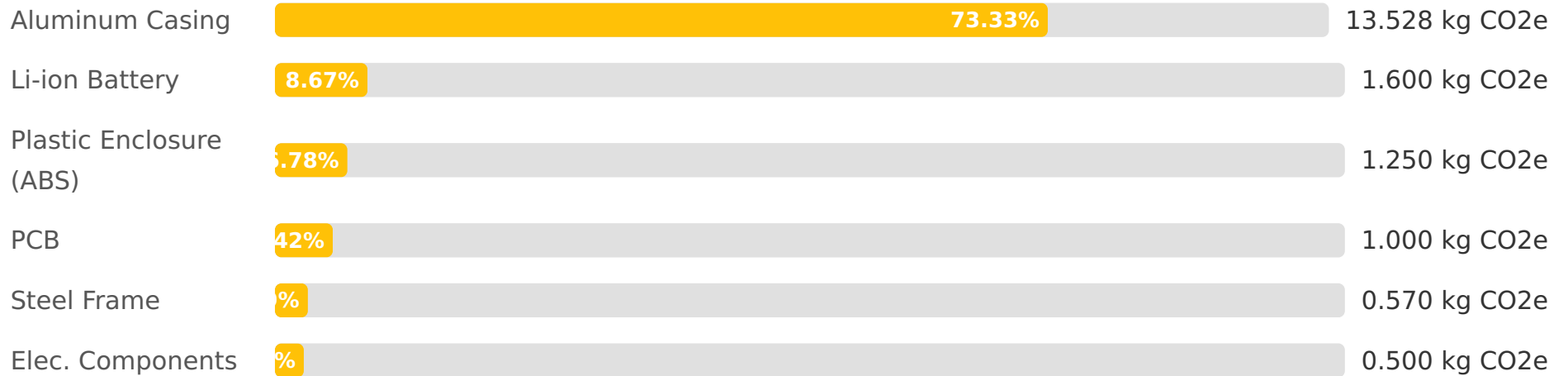
# Lifecycle Stage Breakdown



Note: Percentages calculated based on total positive emissions (51.823 kg CO2e). End-of-Life represents a net carbon credit.

-4.0

# Material Carbon Impact



Percentages based on total material carbon footprint (18.448 kg CO2e).

## Highlights & Hotspots

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- ✓ **Last-Mile Delivery Dominance:** Downstream transportation (last-mile delivery) is the single largest contributor to the PCF, accounting for 20.000 kg CO<sub>2</sub>e, underscoring the need for optimized logistics.
- ✓ **Material Impact, Especially Aluminum:** Material acquisition, particularly the primary production of Aluminum Casing, is a significant hotspot, contributing 13.528 kg CO<sub>2</sub>e.
- ✓ **Use-Phase Energy Consumption:** The product's 3-year lifespan and associated energy consumption contribute 7.500 kg CO<sub>2</sub>e, highlighting opportunities for energy-efficient design.

## Recommended Actions for Reduction

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- ✓ **Optimize Logistics:** Focus on reducing emissions from last-mile delivery through local fulfillment centers, electric vehicle fleets, or more efficient routing.
- ✓ **Sustainable Sourcing & Design:** Explore lower-carbon alternatives for high-impact materials (e.g., recycled aluminum), and prioritize design for durability and repairability to extend product lifespan.
- ✓ **Enhance Energy Efficiency:** Implement design improvements to minimize energy consumption during the product's use phase, or encourage renewable energy adoption by end-users.
- ✓ **Improve Data Quality:** Seek primary, supplier-specific data for materials and manufacturing, and more precise regional electricity mixes for enhanced accuracy and compliance with 2026 GHG Protocol updates.