

# Product Carbon Footprint for ilnhhdigtI

carboncalcpcf.com

**Total PCF: 49.79 kgCO<sub>2</sub>e/unit**

## Key Metrics

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**Total Footprint**

**49.79**

kgCO2e/unit

**Carbon Intensity**

**52.41**

kgCO2e/kg of product

**Top Material Hotspot**

**ABS Plastic Casing**

2.25 kgCO2e (58.3%)

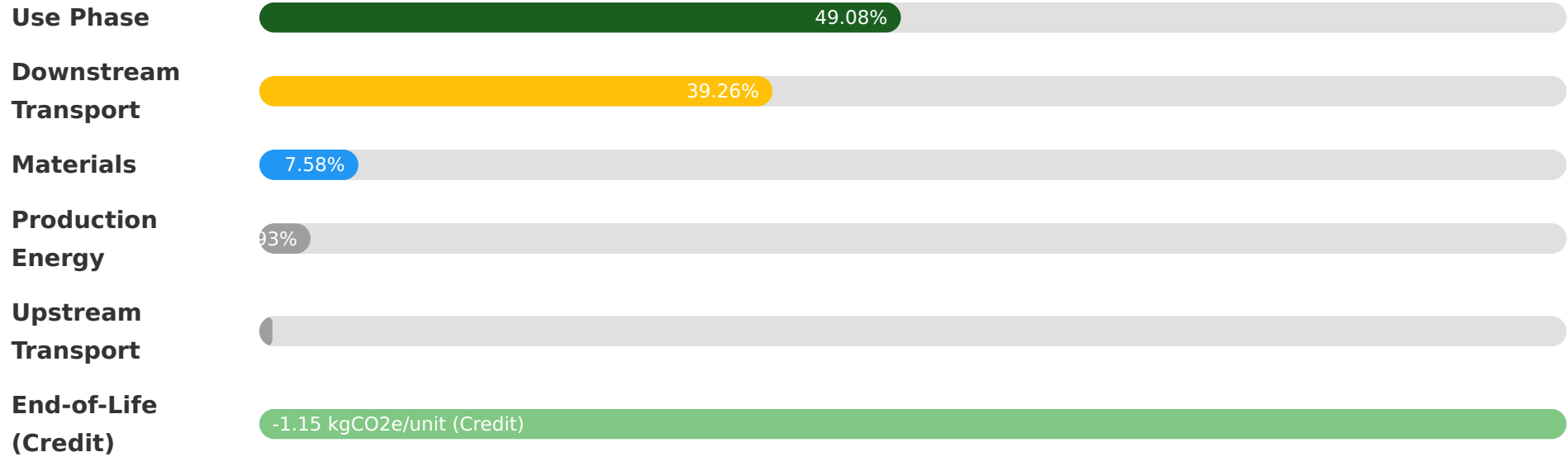
**Primary Emission Scope**

**Scope 3**

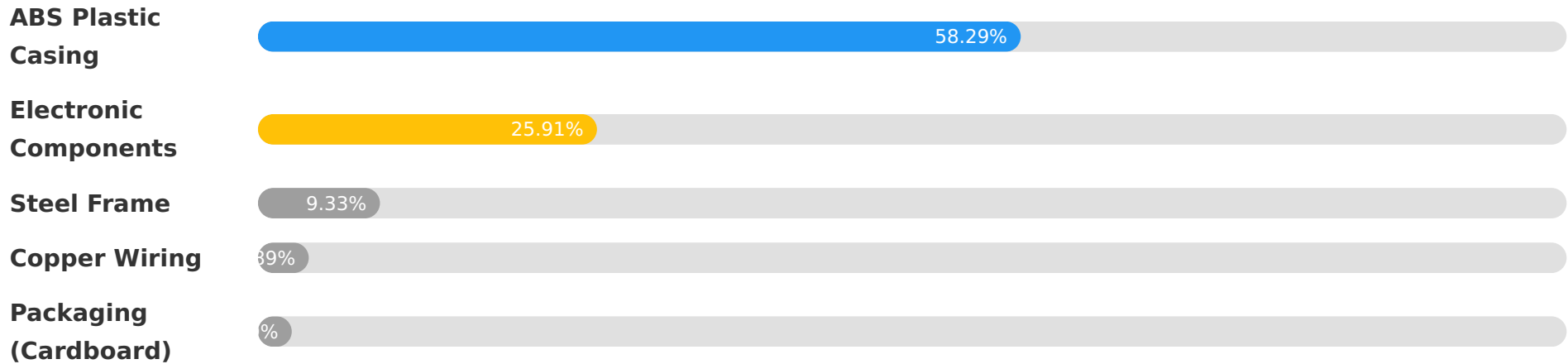
Value Chain Emissions

# Detailed Breakdown

## Lifecycle Stage Contribution



## Material Carbon Impact Breakdown



## Highlights

- **Use Phase Dominance:** The product's energy consumption during its 5-year lifespan is the largest single contributor, accounting for nearly half of total emissions.
- **Logistics Challenge:** Downstream last-mile delivery represents a significant hotspot, indicating a critical area for optimization in transportation strategies and shared-load efficiencies.
- **Material Footprint from Plastics:** ABS Plastic Casing and Electronic Components are key drivers of the upstream material footprint, emphasizing the need for sustainable sourcing and design.

# How to Reduce Your Footprint

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- **Enhance Use Phase Efficiency:** Invest in R&D to significantly reduce energy consumption during the product's operational lifespan.
- **Optimize Logistics:** Collaborate with logistics providers to ensure highly efficient, shared-load transportation and explore lower-carbon transport modes.
- **Sustainable Sourcing:** Prioritize suppliers providing materials with lower embodied carbon, increasing recycled content, and transparently reporting their own emissions.
- **Strengthen Circularity:** Leverage the active take-back program to maximize actual recycling rates and explore opportunities for material reuse and refurbishment.
- **Increase Renewable Energy:** Aim for 100% renewable energy for all production facilities and encourage suppliers to adopt similar practices.