

carboncalcpcf.com

# Product Carbon Footprint Summary

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

for 1.0 unit of kfojukvltp (Cradle-to-Grave)

TOTAL FOOTPRINT

**39.38**

kg CO<sub>2</sub>e

CARBON INTENSITY

**50.49**

kg CO<sub>2</sub>e / kg product

TOP MATERIAL HOTSPOT

**0.96**

kg CO<sub>2</sub>e (Lithium-ion Battery)

PRIMARY EMISSION SCOPE

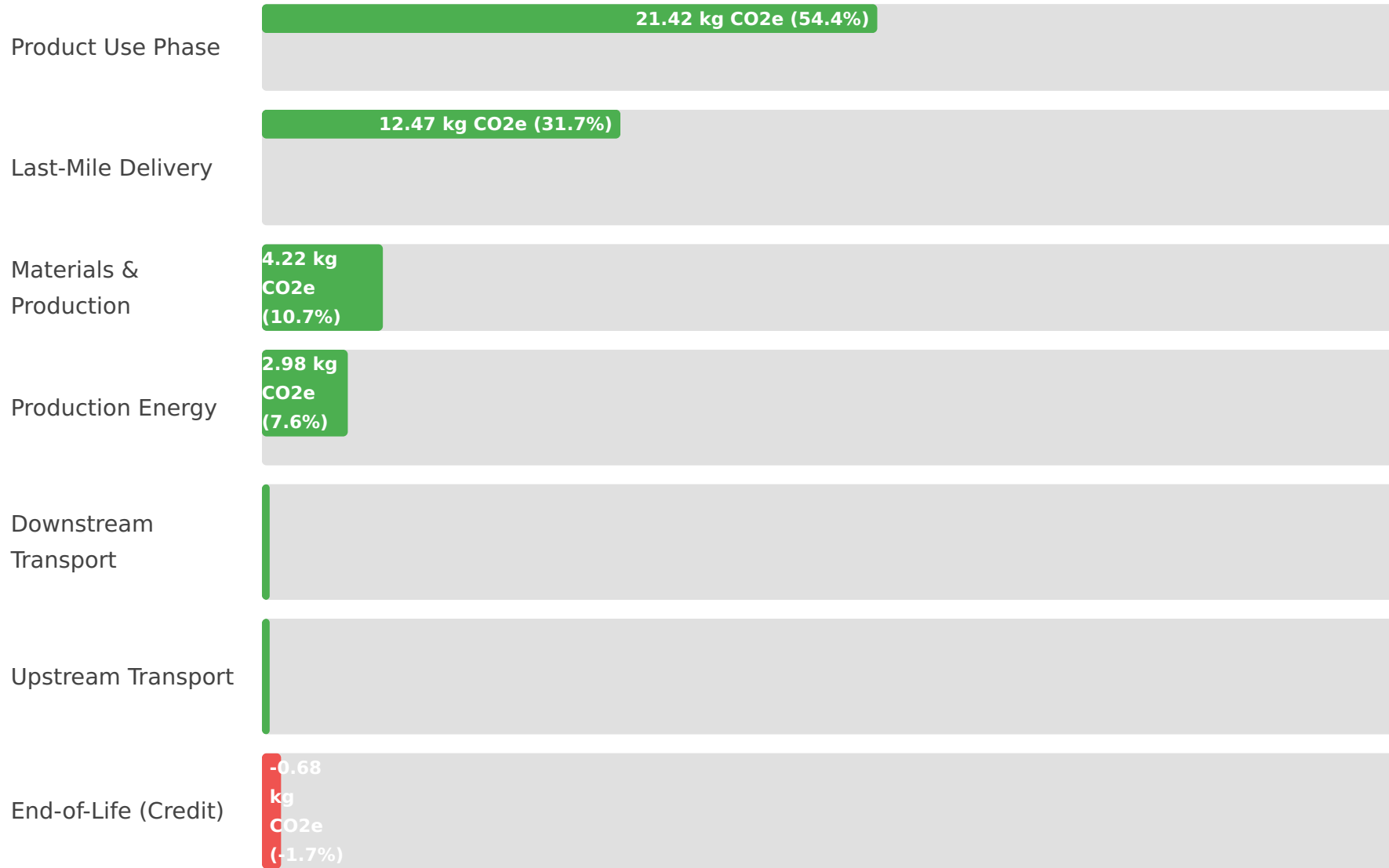
**Scope 3**

Value Chain Emissions

# Emission Breakdown

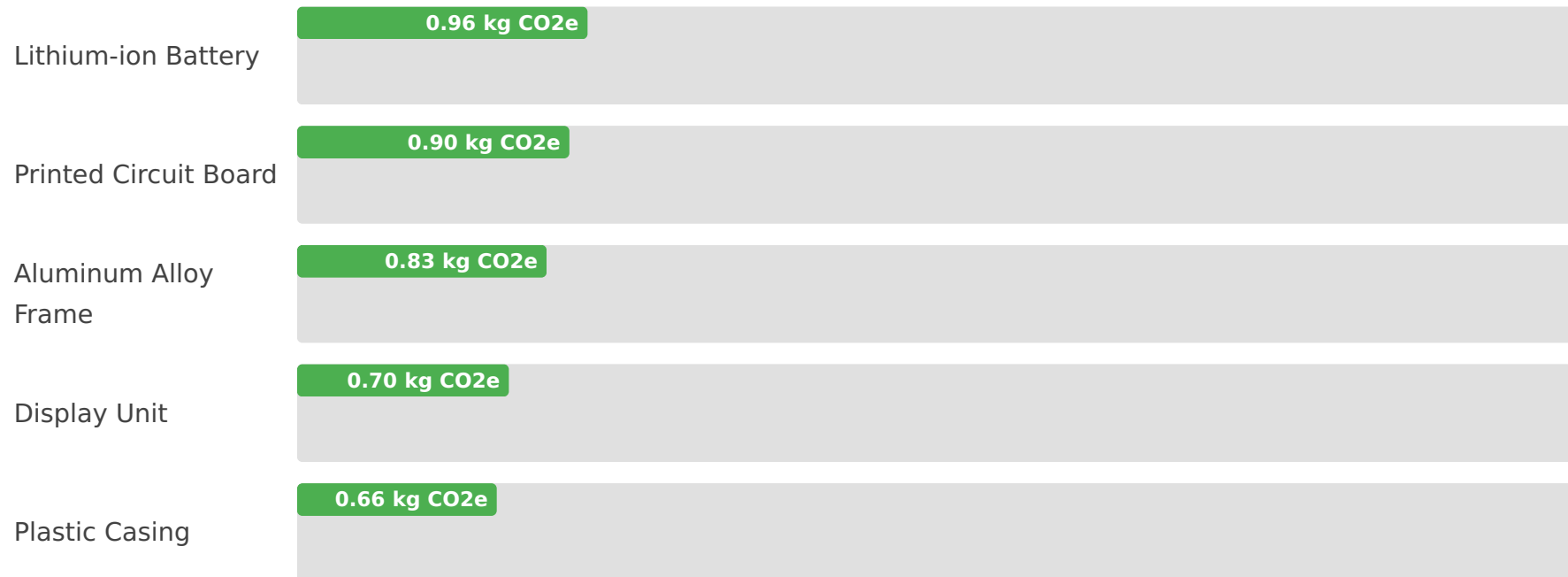
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## By Lifecycle Stage



Note: Percentages for positive emissions are relative to the total footprint of 39.38 kg CO<sub>2</sub>e. End-of-Life shows a credit due to recycling benefits.

## Top 5 Material Impacts



## Highlights & Hotspots

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- ✓ Product Use Phase is the largest hotspot, contributing 54.4% of total emissions.
- ✓ Last-Mile Delivery is a significant contributor, accounting for 31.7% of total emissions.
- ✓ Well-established recycling programs provide an emission credit of -0.68 kg CO<sub>2</sub>e, effectively reducing the overall footprint.

## Recommendations for Reduction

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1. Invest in R&D to significantly reduce the product's energy consumption during its use phase.
2. Explore more efficient last-mile delivery options, such as electric vehicles or consolidated shipments.
3. Continue to evaluate and source materials with lower embedded carbon, prioritizing recycled content.
4. Leverage existing take-back programs to increase material recovery rates beyond 75%.
5. Collaborate closely with supply chain partners to improve energy efficiency and renewable energy adoption.

