

html

Total Product Footprint

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

Carbon Intensity

**14.74 kg CO<sub>2</sub>e/unit**

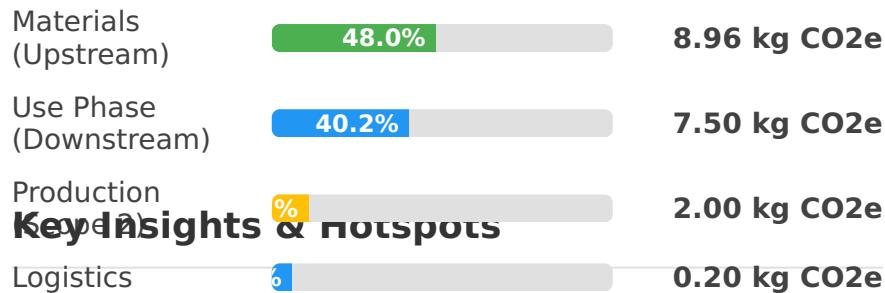
Top Material Hotspot

**Materials (8.96 kg CO<sub>2</sub>e)**

## Primary Emission Scope

# Scope 3

### Lifecycle Carbon Breakdown



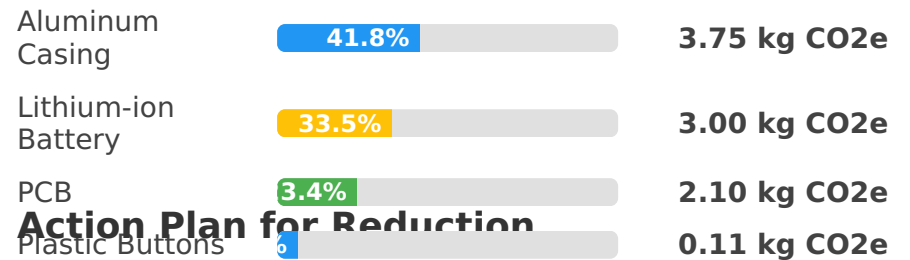
### Key Insights & Hotspots

**Materials dominate:** Upstream material impacts are the largest contributor at 8.96 kg CO2e/unit, highlighting the embodied carbon in components like the Lithium-Ion Battery and Aluminum Casing.

Note: Percentages for positive emissions are calculated based on the gross sum of positive emissions (18.66 kg CO2e). End-of-Life (EoL) treatment provides a significant carbon credit.

- Use phase is significant:** The product's energy consumption during its 3-year lifespan accounts for 7.50 kg CO2e/unit, making it the second-largest hotspot.
- Circular economy benefits:** Effective End-of-Life treatment, driven by a 75% recyclability rate and take-back programs, yields a significant credit of -3.92 kg CO2e/unit.

### Material Composition vs. Carbon Impact



**Material Optimization:** Explore lower-carbon materials and increase recycled content in components, particularly aluminum and plastics.

Engage suppliers for emission reduction.

- Energy Efficiency in Use:** Implement design improvements to reduce energy consumption of jfuktelfwx during its operational life.
- Strengthen Circularity:** Continue to enhance take-back and recycling programs, focusing on design-for-recyclability to maximize material recovery.