

Product Carbon Footprint Dashboard

Product: fhnhyudkfv | **Company:** khlwddvmog

Total PCF (per 1.0 unit)

40.71 kgCO2e

TOTAL FOOTPRINT

40.71 kgCO₂e

CARBON INTENSITY

40.71 kgCO₂e/unit

TOP MATERIAL HOTSPOT

Aluminum Casing

4.00 kgCO₂e

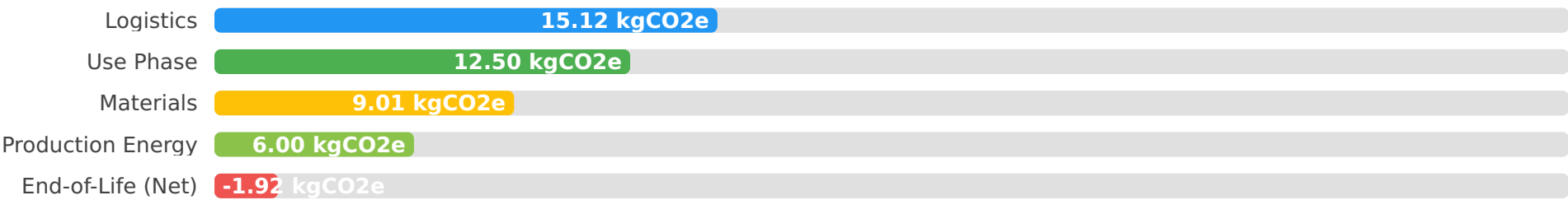
PRIMARY EMISSION SCOPE

Scope 3

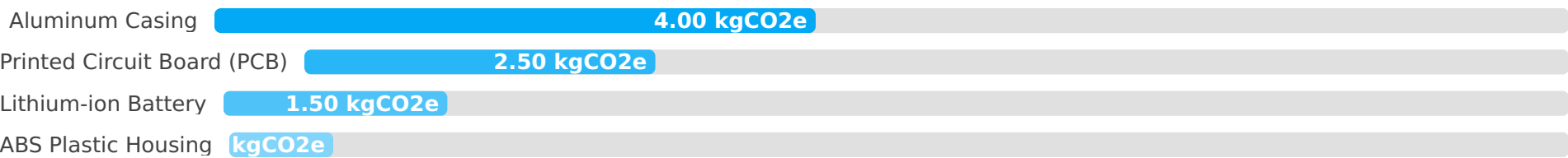
~85% of total

Detailed Emission Breakdown

Lifecycle Stage Contribution (kgCO2e)



Top Material Carbon Impact (kgCO2e)



Key Emission Hotspots

- Downstream Transportation & Distribution (Scope 3) is the largest contributor at 15.00 kgCO₂e, accounting for 36.8% of the total footprint.
- The Use Phase of the product (Scope 3) is a significant hotspot, contributing 12.50 kgCO₂e (30.7% of total).
- Purchased Goods and Services (Scope 3), particularly materials like Aluminum and Lithium-ion batteries, represent 9.01 kgCO₂e (22.1% of total).

Recommendations for Reduction

- 1. Supply Chain Engagement:** Collaborate with material suppliers to collect primary data and explore lower-carbon materials or increased recycled content.
- 2. Logistics Optimization:** Investigate opportunities to optimize primary and last-mile transportation, such as using more efficient vehicles or optimizing routing.
- 3. Product Design for Efficiency:** Focus R&D efforts on enhancing product energy efficiency during the use phase to reduce end-user electricity consumption.
- 4. Renewable Energy Procurement:** Increase the procurement of certified renewable energy for manufacturing operations in China.
- 5. Circular Economy Initiatives:** Enhance take-back programs to maximize collection and recycling rates, and investigate advanced recycling technologies.