

carboncalcpcf.com

Product Carbon Footprint Analysis

for **uutzwxplr**

Total Footprint: **43.66 kg CO2e per unit**

43.66 kg CO2e

Total Product Footprint

Scope 3

Primary Emission Scope
(33.16 kg CO2e)

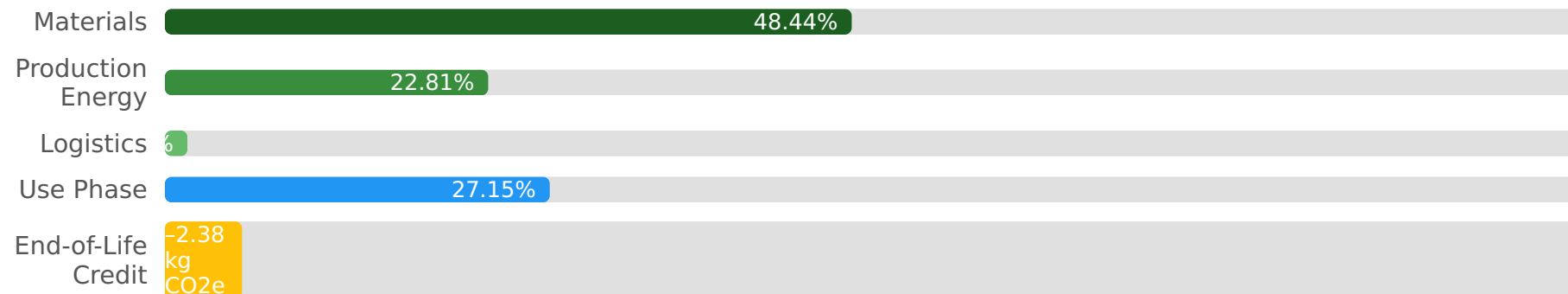
Lithium-ion Battery

Top Material Hotspot
(7.50 kg CO2e)

51%

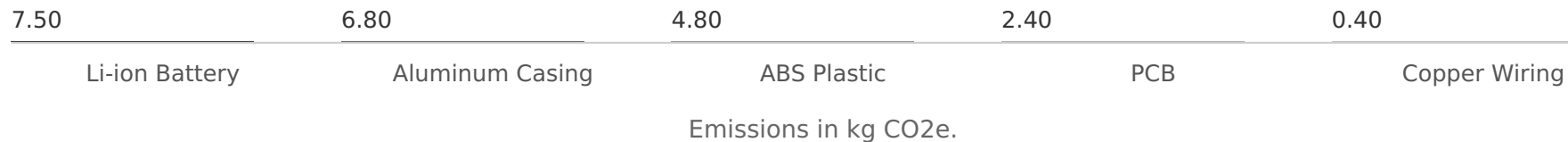
Materials Impact Share

Lifecycle Stage Breakdown



Note: Percentages above reflect proportional contribution to gross positive emissions. End-of-Life provides a net reduction of 2.38 kg CO₂e.

Top Material Carbon Impact



Key Insights & Hotspots

- Materials acquisition and processing contribute the largest share, responsible for approximately 51% of the total PCF (22.30 kg CO₂e).
- The product's use phase is the second most significant contributor, accounting for roughly 29% (12.50 kg CO₂e) of emissions over its 5-year lifespan.
- Purchased electricity for manufacturing contributes 24% (10.50 kg CO₂e), indicating a need for higher renewable energy adoption despite 70% current usage.

