

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: yxnwvnpvj | Company: xldliexzn

30.59 kg per 1.0
CO2e unit

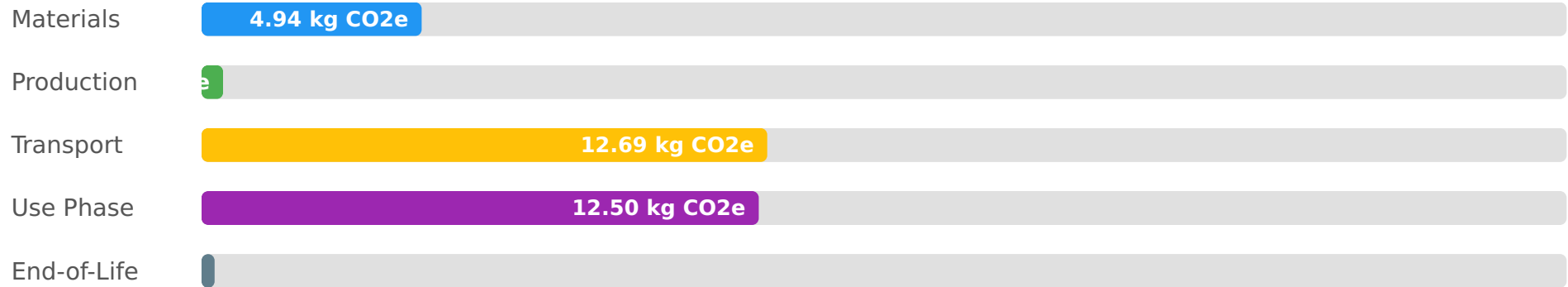
System Boundary: Cradle-to-Grave | Standard: GHG Protocol

30.59 kg CO2e

Total Product Footprint

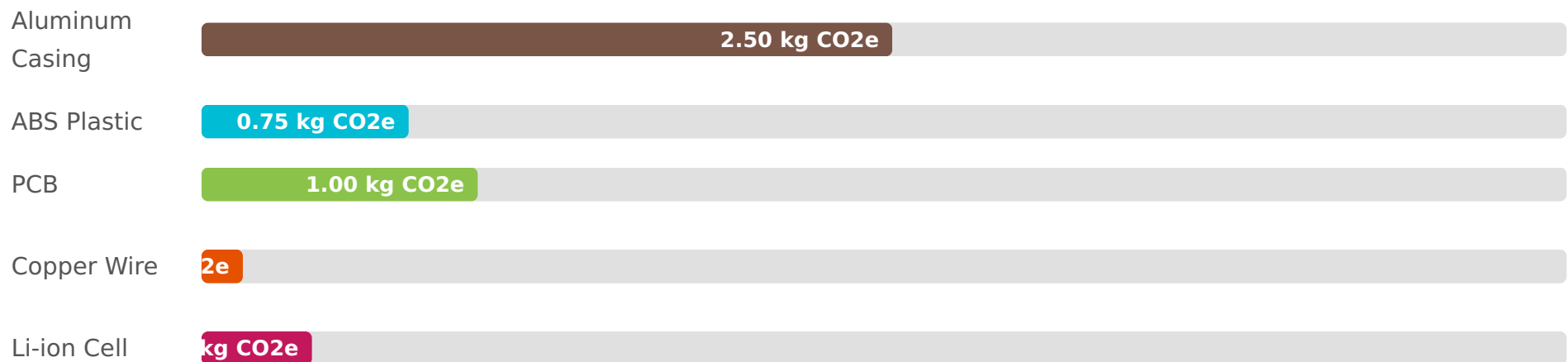
30.59 kg CO2e/unit

Lifecycle Stage Breakdown



*Percentages calculated based on sum of positive emissions for visualization purposes. EoL shows net avoided emissions.

Material Impact Breakdown



Recommendations for Carbon Reduction

Supply Chain Optimization:

- Explore near-shoring or regional sourcing for materials to reduce transport distances.
- Optimize logistics by increasing shipping efficiency and investigating greener freight options (e.g., biofuels).

Energy Efficiency & Renewables in Production:

- Increase renewable energy adoption at manufacturing facilities in China beyond the current 50% illustrative target.
- Implement energy-efficient manufacturing processes to reduce energy intensity.

Product Design & Material Choices:

- Evaluate alternative materials with lower embodied carbon footprints for components like aluminum and plastics.
- Design for durability and repairability to extend the product's 5-year lifespan.

Use Phase Decarbonization & Circular Economy Enhancement:

- Optimize product energy consumption during use and provide consumers with sustainable usage information.
- Strengthen take-back programs and increase recyclability to maximize material recovery and reuse, building on the current 70% recyclability.