

carboncalcpcf.com Product Carbon Footprint

**oluixwzziw**

Total Lifecycle Emissions

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

1.0 unit · factory\_gate · GHG Protocol

Total Footprint

**35.59 kg CO2e**

Carbon Intensity

**35.59 kg CO2e/unit**

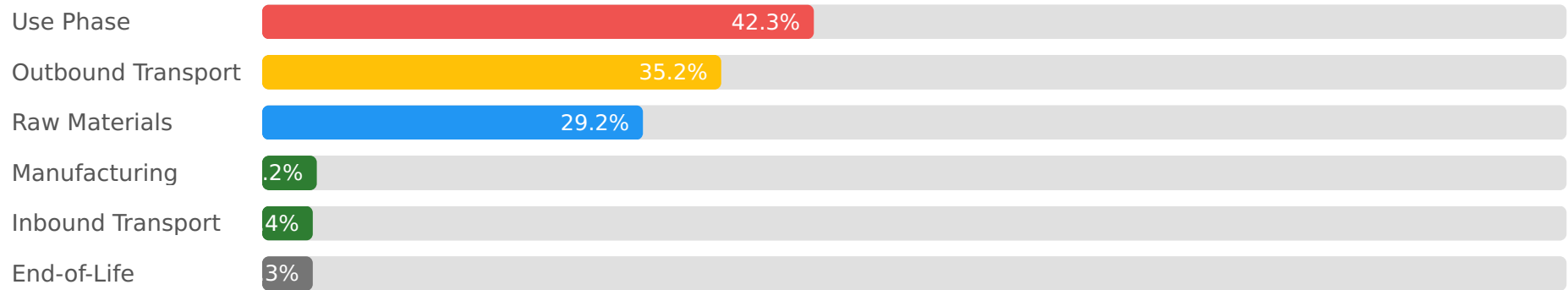
Top Material Hotspot

**Aluminium Casing**

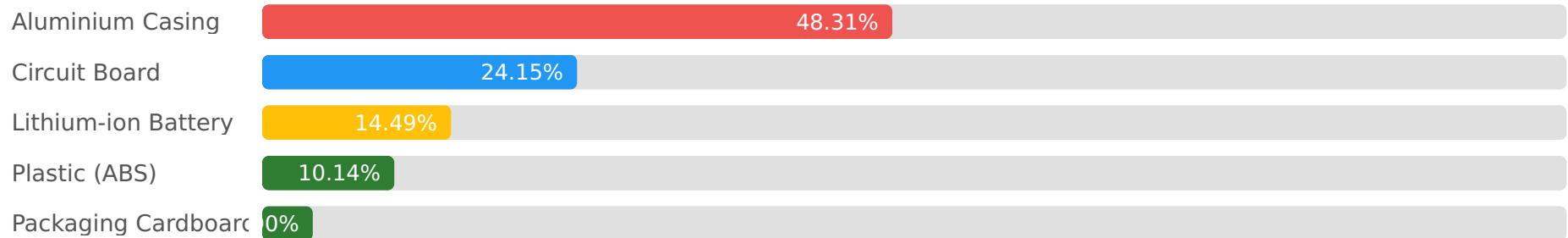
Primary Emission Scope

**Scope 3 Downstream**

## Lifecycle Stage Breakdown



## Material Carbon Impact



## Key Carbon Hotspots

- **Use Phase (42.3%):** The largest contributor, primarily due to assumed electricity consumption over the product's lifespan.
- **Outbound Last-Mile Transport (35.2%):** A significant impact, especially influenced by conservative assumptions for vehicle emissions per unit for last-mile delivery.
- **Raw Material Acquisition (29.2%):** The upstream production of high-impact materials such as aluminium and electronic components contributes substantially to the overall footprint.

## Recommendations for Reduction

- **Design for Energy Efficiency:** Focus on reducing the energy consumption of "oluixwzziw" during its use phase through more efficient components or power-saving modes.
- **Green Logistics:** Investigate and implement greener last-mile delivery options and optimize outbound transport routes to reduce the impact of logistics.
- **Supply Chain Decarbonization:** Engage with suppliers to source lower-carbon materials and optimize inbound logistics.
- **Circular Economy Initiatives:** Enhance existing circular/take-back programs to maximize product lifespan, facilitate repairability, and improve recycling rates.
- **Renewable Energy Integration:** Increase the percentage of renewable energy used in manufacturing operations beyond the assumed 50% in China.