CARBONCALCPCF.COM

Product Carbon Footprint Dashboard

Product: lqdszkdlqj (1.0 unit)

Total PCF: 70.065 kg CO_2e

TOTAL FOOTPRINT

70.065 kg CO_2e

TOP EMISSION HOTSPOT

Downstream Transportation

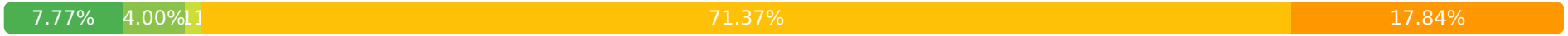
PRIMARY GHG SCOPE

Scope 3 (96.00%)

PRODUCTION COUNTRY

China

Emissions by Lifecycle Stage



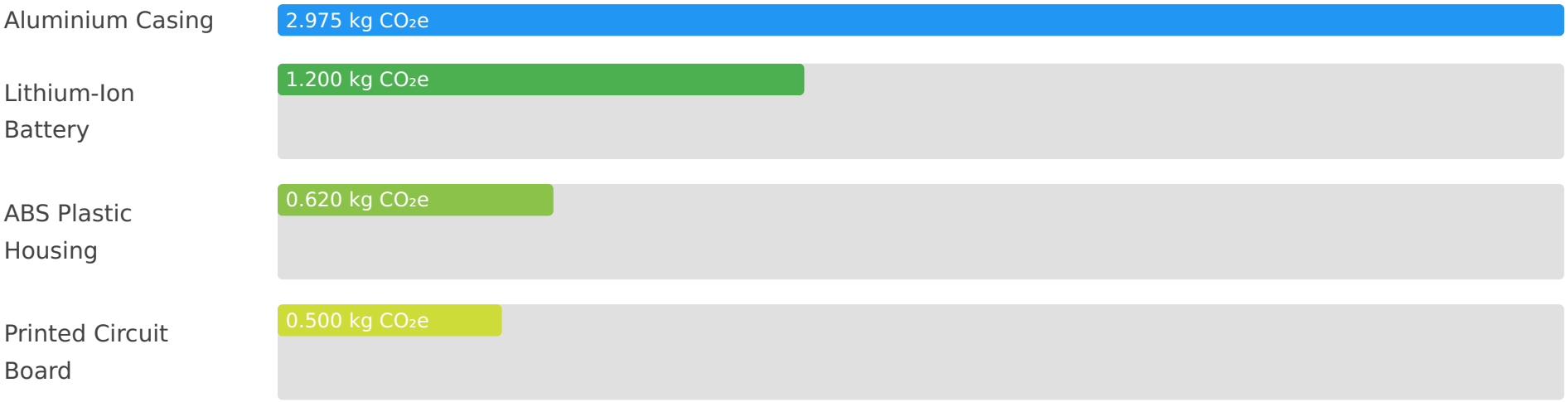
Note: End-of-Life (-1.08%) represents net avoided emissions from recycling. Percentages may not sum to exactly 100% due to rounding.

- Raw Material: 7.77%
- Manufacturing: 4.00%
- Transport (Upstream): 0.11%
- Transport (Downstream): 71.37%
- Use Phase: 17.84%
- End-of-Life (Net Credit): -1.08%

Key Emission Hotspots

- **Downstream Transportation:** Constitutes 71.37% of the total footprint, primarily due to high-intensity last-mile delivery.
- **Use Phase:** Accounts for 17.84% of emissions, stemming from energy consumption during the product's lifespan.
- **Raw Materials:** While smaller overall, materials like Aluminium Casing and Lithium-Ion Batteries are significant individual contributors.

Top Material Carbon Impacts (Illustrative)



Recommendations for Reduction

1. **Optimize Logistics:** Investigate opportunities to reduce emissions from transport by shifting to lower-emission modes (e.g., rail, electric vehicles for last-mile) or optimizing routes.
2. **Enhance Product Energy Efficiency:** Focus R&D on minimizing energy consumption during the product's lifespan to reduce emissions in the use phase.
3. **Sustainable Material Sourcing:** Collaborate with suppliers to procure lower-carbon materials, explore alternatives, or design for lighter products.
4. **Expand Circularity Initiatives:** Maximize material recovery and reuse through take-back programs and increased recyclability.
5. **Improve Data Granularity:** Continuously collect more primary data across the supply chain for greater accuracy in emission factors and activity data.
6. **Integrate LSR Standard:** Prepare for the 2026 Land Sector and Removals (LSR) Standard by tracing land use impacts for bio-based components.