

carboncalcpcf.com

Carbon Footprint for gdlfsqskwx

Total PCF

22.91 kg CO₂e

TOTAL FOOTPRINT

22.91 kg CO₂e

CARBON INTENSITY

22.91 kg CO₂e/unit

TOP MATERIAL HOTSPOT

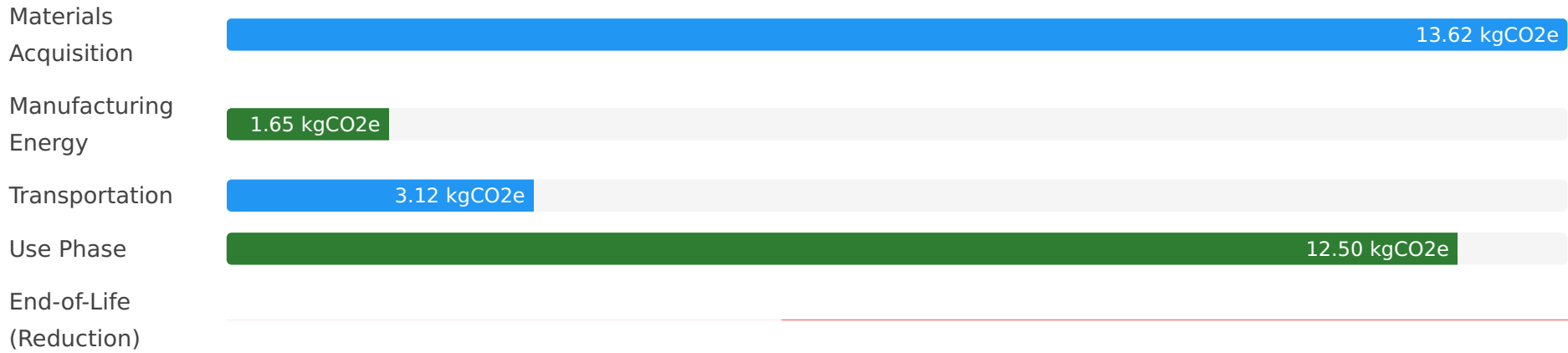
Aluminum Casing

PRIMARY EMISSION SCOPE

Scope 3 (Upstream)

Emission Breakdown

Lifecycle Stage Contributions



Top Material Carbon Impact



Key Insights & Hotspots

- **Materials Acquisition & Processing** is the largest contributor, driven by high carbon intensity of primary aluminum and electronics.
- Significant emissions arise from the **Use Phase** due to the product's 5-year lifespan and energy consumption.
- **End-of-Life Treatment** provides a notable net negative emission, demonstrating the positive impact of high recyclability and circular programs.

Action Plan for Reduction

1. **Material Decarbonization:** Prioritize recycled content and lower-carbon alternatives for high-impact materials like aluminum.
2. **Energy Efficiency in Use:** Invest in R&D to reduce energy consumption during the product's operational lifespan.
3. **Sustainable Logistics:** Optimize transportation routes, explore multi-modal transport, and prioritize lower-emission carriers.
4. **Renewable Energy Procurement:** Increase the percentage of renewable energy used in manufacturing beyond the current 40%.
5. **Circular Economy Expansion:** Strengthen and expand take-back programs and explore business models that extend product lifespan and material recovery.

Report generated by carboncalcpcf.com - May 21, 2026

Confidential - Internal Use Only