

CARBONCALPCF.COM

Product Carbon Footprint Dashboard

Product: ihwvloglqe

Total PCF: 26.65 kg CO₂e

Total Footprint

26.65 kg CO₂e

Carbon Intensity

26.65 kg CO₂e/unit

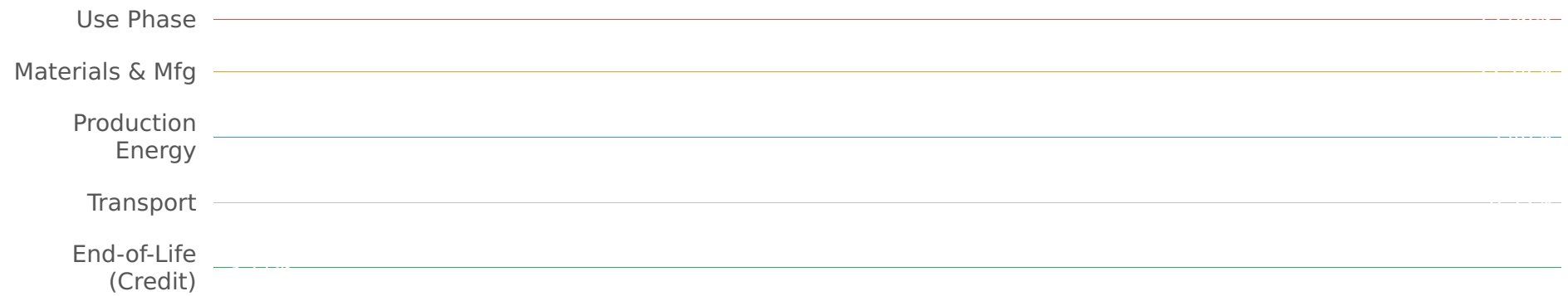
Top Material Hotspot

Aluminum Casing (2.40 kg CO₂e)

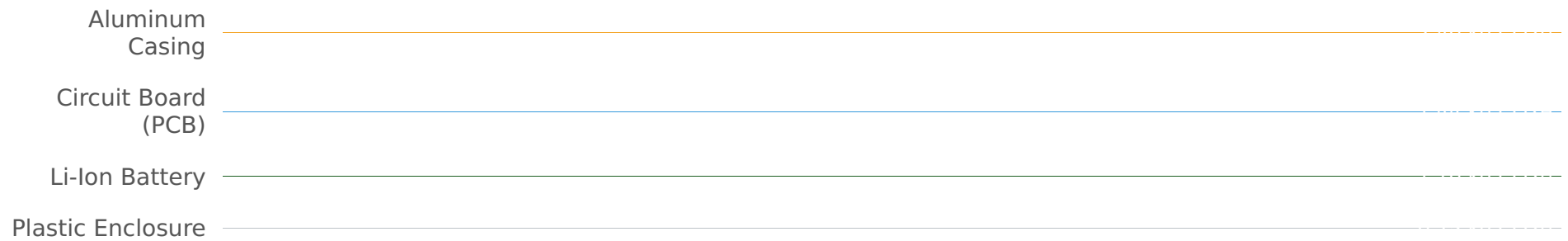
Primary Emission Scope

Scope 3 (94.60%)

Lifecycle Stage Breakdown



Top Material Carbon Impact



Highlights & Insights

- The **Use Phase** is the dominant hotspot, contributing 75.06% of the total product carbon footprint.
- **Materials Acquisition & Manufacturing** represents the second largest contributor at 22.14%, with Aluminum Casing being the top material impact.
- **Strong circular economy initiatives** and 70% recyclability result in a net **-3.11% credit** at End-of-Life, demonstrating positive impact.

Recommendations for Reduction

- **Optimize Use Phase Energy Efficiency:** Redesign for significantly lower energy consumption during its operational lifespan.
- **Source Low-Carbon Materials:** Explore suppliers for aluminum, circuit boards, and batteries with lower embodied emissions or higher recycled content.
- **Enhance Renewable Energy in Production:** Increase the percentage of renewable energy used at the manufacturing facility in China.
- **Strengthen Circular Economy Initiatives:** Promote and expand take-back/refurbishment programs and explore innovative recycling technologies.
- **Logistics Optimization:** Continuously optimize transport routes and modes, prioritizing lower-emission options where feasible.

