Product Carbon Footprint: mheotfihgs

Report Overview for 1.0 unit, System Boundary: factory_gate

carboncalcpcf.com

Total PCF: **17.54 kg CO2e**

Total Footprint

17.54 kg CO2e
PER 1.0 UNIT OF MHEOTFIHGS

Carbon Intensity

17.54
KG CO2E / UNIT

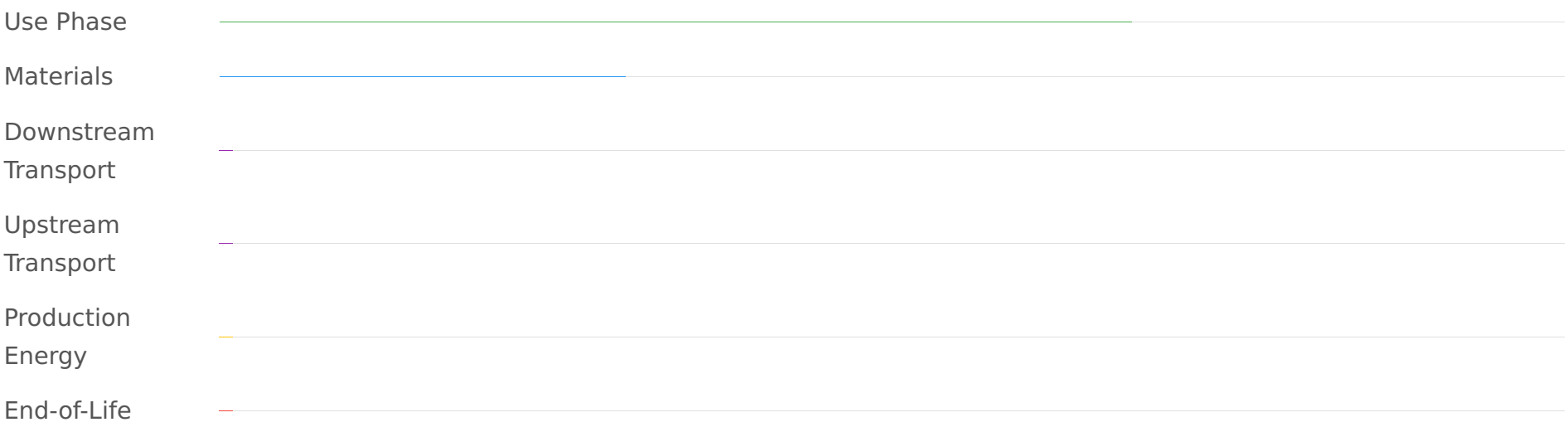
Top Material Hotspot

Aluminum Casing
3.00 KG CO2E (56.7% OF MATERIAL IMPACT)

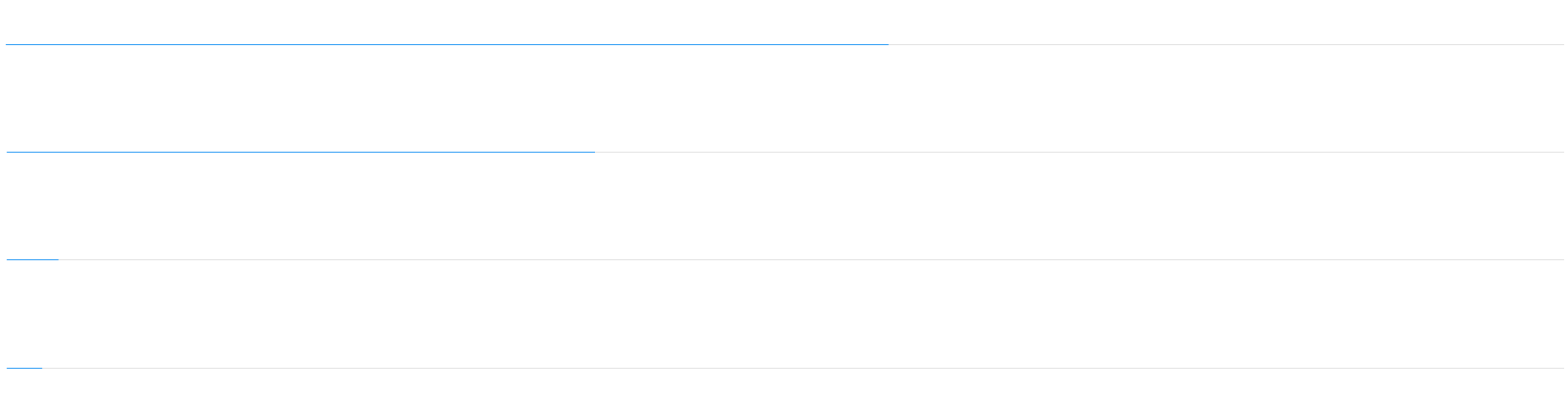
Primary Emission Scope

Scope 3 (Use Phase)
11.90 KG CO2E (67.8% OF TOTAL)

Lifecycle Stage Breakdown



Material Carbon Impact



Highlights & Key Insights

The **Use Phase** is the dominant hotspot, contributing 67.8% of the total PCF due to electricity consumption over its 5-year lifespan.

Materials account for 30.2% of the total footprint, with Aluminum Casing and Electronic Components being the most impactful.

Transportation and End-of-Life stages have comparatively lower impacts, collectively contributing less than 2% of the total PCF.

Recommendations for Emission Reduction

- ✓ **Optimize Use Phase:** Invest in R&D for more energy-efficient designs and promote renewable energy adoption by end-users.
- ✓ **Material Decarbonization:** Engage with suppliers to source lower-carbon materials or explore alternatives with increased recycled content.
- ✓ **Enhance Circularity:** Expand existing take-back programs to maximize refurbishment and recycling rates beyond 80%.
- ✓ **Renewable Energy in Production:** Continuously increase renewable energy procurement for manufacturing operations in China.

Report generated adhering to GHG Protocol & 2026 LSR Update principles.