html

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: msowlrzier | **Company:** uhyswykpqd | **Standard:** GHG Protocol

10.40 kgCO2e / unit

Total PCF

10.40 kgCO2e

Per Unit Carbon

10.40 kgCO2e

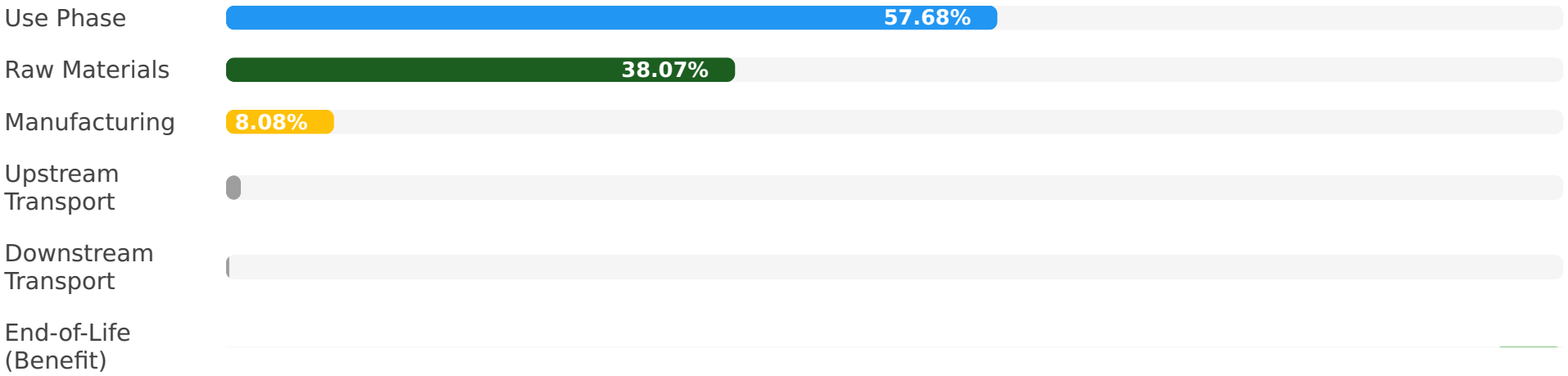
Top Material Hotspot

Battery (1.60 kgCO2e)

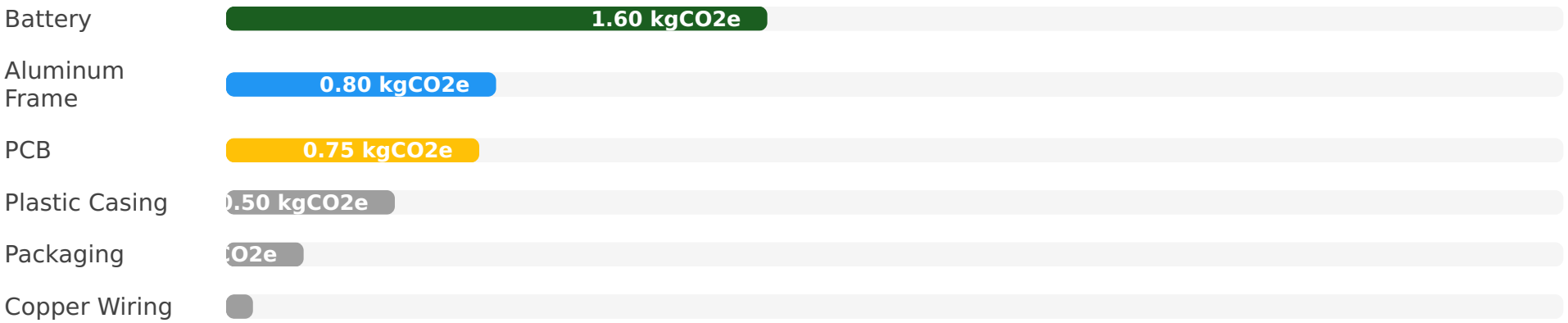
Primary Emission Scope

Scope 3 (91.92%)

Lifecycle Stage Breakdown



Material Carbon Impact



Key Emission Highlights

- The **Use Phase** is the single largest contributor, accounting for **57.68% (6.00 kgCO2e)** of the total carbon footprint. This highlights significant energy consumption during the product's lifespan.
- **Scope 3 emissions** dominate, representing **91.92%** of the total PCF, with **Purchased Goods and Services** (Raw Materials) being a major hotspot at **38.07% (3.96 kgCO2e)**.
- **End-of-Life treatment** contributes to **avoided emissions (-5.21%)** due to strong recycling programs, demonstrating the benefit of circularity initiatives.

Decarbonization Action Plan

1. **Enhance Product Energy Efficiency:** Prioritize R&D to significantly reduce msowlrzier's energy consumption during its operational lifespan to tackle the largest hotspot.
2. **Sustainable Material Sourcing:** Implement strategies for sourcing lower-carbon materials, including recycled content, bio-based alternatives, and engaging suppliers for high-impact components like batteries and aluminum.
3. **Increase Renewable Energy in Manufacturing:** Accelerate the transition to 100% renewable electricity at the China production facility, moving beyond the current 60% usage, through PPAs or on-site generation.
4. **Optimize Logistics:** Continuously evaluate and optimize transport routes and modes, prioritizing lower-emission options like rail or sea, and exploring electric/hydrogen vehicles for last-mile delivery.
5. **Strengthen Circularity Initiatives:** Expand and promote take-back programs and invest in design-for-disassembly to maximize recyclability and material recovery, further enhancing avoided emissions.