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carboncalcpcf.com

umtflightx Carbon Footprint

Total Product Carbon Footprint: **19.84 kg CO2e** per 1.0 unit

Company: yomjlhtvvi | **Standard:** GHG Protocol | **Consultant:** wjpitfmwxy

Total Footprint

19.84 kg CO2e

Per 1.0 unit of umtflightx

Carbon Intensity

19.84 kg CO2e/unit

"Factory Gate" + Use Phase & EoL

Top Material Hotspot

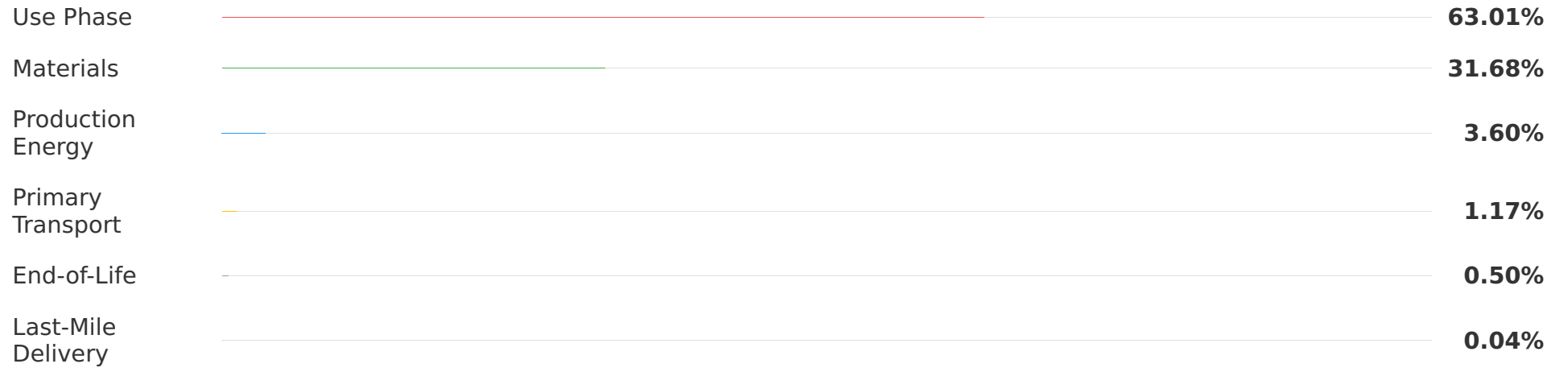
Aluminum Casing

3.35 kg CO2e (53.3% of material impact)

Primary Emission Scope

Scope 3

Lifecycle Stage Breakdown



- **Use Phase Dominance:** The product's energy consumption over its 5-year lifespan is the largest contributor, accounting for approximately 63% of the total carbon footprint.
- **Material Footprint Significance:** Raw material extraction and processing represent the second-largest hotspot, contributing roughly 32% of the PCF, with Aluminum Casing being the primary impact driver within materials.
- **Production Efficiency & Renewables:** Despite 75% renewable energy usage in production, the remaining non-renewable electricity still accounts for a notable portion of Scope 2 emissions.

Recommendations for Reduction

- **Optimize Use Phase:** Invest in energy-efficient product design and explore partnerships with renewable energy providers for consumers to reduce downstream impacts.
- **Material Innovations:** Prioritize researching and incorporating lower-carbon alternatives for high-impact materials, particularly aluminum, and increase recycled content.
- **Supply Chain Engagement:** Collaborate closely with material suppliers to encourage the adoption and reporting of renewable energy sources in their manufacturing processes.
- **Enhance Circularity:** Leverage the existing take-back programs to maximize recycling rates and actively explore options for component reuse or remanufacturing.