carboncalcpcf.com

Product Carbon Footprint Report Summary

gyifstvnqg

Total CO2e: **132.15 kg CO2e** per unit

Total Footprint

132.15 kg CO2e

Carbon Intensity

132.15 kg CO2e / unit

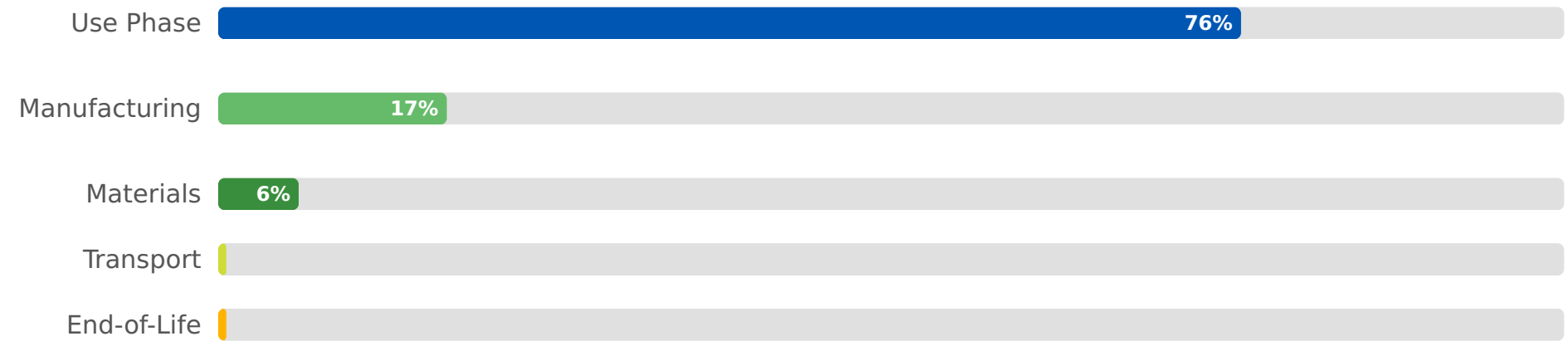
Top Material Hotspot

Aluminum Casing (3.75 kgCO2e)

Primary Emission Scope

Scope 3 (Use Phase)

Lifecycle Stage Breakdown



Recommendations for Reduction

- ✓ **Energy Efficiency in Use:** Drastically improve the energy efficiency of gyifstvnqg to reduce consumption during its operational lifespan (e.g., 5 years) and educate users on sustainable usage to lower the use phase footprint.
- ✓ **Renewable Energy for Manufacturing:** Increase the percentage of renewable energy (e.g., 20%) used in the China manufacturing facility to mitigate the impact of the grid's carbon intensity.
- ✓ **Material Optimization:** Explore lightweighting and substituting materials with lower-carbon alternatives or higher recycled content, focusing initially on high-impact components like **Aluminum Casing**.
- ✓ **Logistics Optimization:** Re-evaluate transport routes (e.g., 2000km upstream, 10000km ocean) and modes to prioritize lower-emission options and consider localized sourcing where feasible. Optimize last-mile delivery.
- ✓ **Enhance Circularity:** Strengthen circular/take-back programs and design for better recyclability to increase product recyclability (e.g., 60%) and minimize end-of-life emissions.
- ✓ **LSR Integration:** Deepen analysis into raw material sourcing to identify and mitigate land use change impacts, aligning with the GHG Protocol's 2026 Land Sector and Removals (LSR) update.

Report prepared for **vqisuzzpnd** by **huwethsdtl**, Senior Sustainability Consultant.

Standard: GHG Protocol, including 2026 LSR update. Generated: May 26, 2026.