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Product Carbon Footprint Dashboard

Product: vpppqrsngq • **Standard:** GHG Protocol • **Boundary:** Factory Gate

399.581 kgCO2e

TOTAL PRODUCT FOOTPRINT

Total Footprint

399.581 kgCO2e

Per 1.0 unit of vpppqrsngq

Carbon Intensity

399.581 kgCO2e/unit

Efficiency per functional unit

Top Material Hotspot

Steel Frame

10.0 kgCO2e (2.5% of total PCF)

Key Emission Highlights

- **Logistics Dominance:** Transportation for both inbound materials and outbound distribution accounts for approximately 75% of the product's carbon footprint. This indicates assumed long distances are a major factor.
- **Use Phase Impact:** The product's operational energy consumption over its 5-year lifespan is the second most significant contributor (around 17.5%), emphasizing energy efficiency.
- **Material Hotspots:** Within the material acquisition phase, Steel and Electronic Components are the highest contributors, representing substantial embodied carbon even if overall smaller than logistics.

Recommendations for Reduction

- **Optimize Logistics:** Prioritize local sourcing, explore lower-emission transport modes (e.g., rail, sea freight), and optimize route planning to drastically reduce transport emissions.
- **Enhance Energy Efficiency:** Implement design improvements to reduce energy consumption during the product's use phase and promote renewable energy sources at the end-user location.
- **Sustainable Material Sourcing:** Investigate and integrate lower-carbon alternative materials, increase recycled content, and focus on collecting precise, primary data for all material inputs.