html

carboncalcpcf.com

Product Carbon Footprint Dashboard

for **vkrytolsdw**

Total PCF: 15.96 kgCO_2e

(per 1.0 unit, factory_gate boundary)

TOTAL FOOTPRINT

15.96 kgCO_2e

CARBON INTENSITY

15.96 kgCO_2e/unit

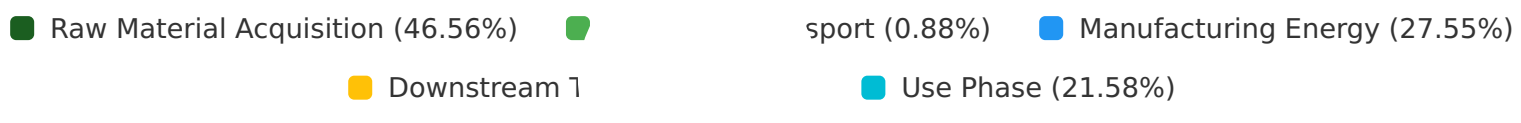
TOP MATERIAL HOTSPOT

Li-ion Battery

PRIMARY EMISSION SCOPE

Scope 3

Lifecycle Stage Breakdown



End-of-Life: Net Credi 0 kgCO₂e (31.32% of total PCF)

1. **Sustainable Material Sourcing:** Prioritize materials with lower embodied carbon, increase recycled content (especially for plastics, steel, and copper), and engage with suppliers to reduce their upstream emissions.
2. **Manufacturing Efficiency & Renewable Energy:** Further increase the share of renewable energy in manufacturing operations in China. Implement advanced energy efficiency measures to reduce overall electricity consumption per unit.
3. **Product Energy Efficiency:** Design "vkrytolsdw" for minimal energy consumption during its use phase, as this is a significant downstream hotspot.
4. **Extended Product Lifespan & Circularity:** Continue and expand circular design principles, including repairability, modularity, and take-back programs, to maximize material retention and minimize waste.
5. **Optimized Logistics:** Explore opportunities to optimize transport routes, modes (e.g., shifting from air to rail where feasible), and load factors across the supply chain.

Report adheres to GHG Protocol standards and 2026 LSR update.