Product Carbon Footprint for vistydftvv

Total Carbon Footprint
32.919 kgCO2e

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32.919 kgCO2e

Carbon Intensity

32.919 kgCO2e/unit

Top Material Hotspot

Lithium-ion Battery

2.000 kgCO2e

Primary Emission Scope

Scope 3

28.569 kgCO2e (86.79%)

Emissions Breakdown

32.919 kgCO2e

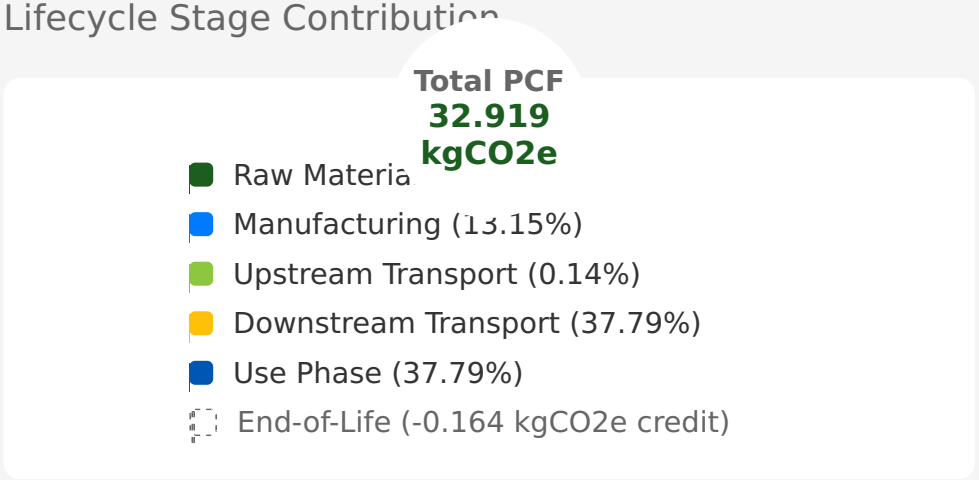
Key Insights & Hotspots

- **Downstream Transport (Last-Mile Delivery)** and the **Use Phase** are the most significant contributors, each accounting for approximately 38% of the total PCF. This highlights logistics and product energy consumption as critical areas for intervention.
- **Manufacturing (Scope 2)** contributes around 13% of the footprint, despite 50% renewable energy usage, indicating the impact of the remaining grid electricity in China.
- **Raw Materials**, particularly the Lithium-ion Battery and PCB Board, embed a notable 11% of emissions, suggesting opportunities in sustainable sourcing and material substitution.

Recommendations for Reduction

1. **Logistics Optimization:** Explore greener and more efficient last-mile delivery options and multimodal transport for longer distances.
2. **Energy Efficiency & Renewables:** Enhance product energy efficiency and increase renewable energy procurement at manufacturing facilities.
3. **Sustainable Sourcing:** Engage with suppliers to obtain primary emission data and identify lower-carbon material alternatives, especially for high-impact components.
4. **Circular Economy Strategies:** Strengthen take-back programs and consider product-as-a-service models to extend lifespan and improve recycling.
5. **Data Improvement:** Continuously improve Scope 3 data collection by collaborating with supply chain partners for primary emissions data.

Lifecycle Stage Contribution



Key Material Carbon Impact