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dfgrpwrrd Product Carbon Footprint

Detailed analysis for **hursowwqfi** by fyzwqdzoih

Total PCF: **20.18** kg CO₂e per unit

TOTAL FOOTPRINT

20.18

kg CO2e / unit

CARBON INTENSITY

20.18

kg CO2e / unit

TOP MATERIAL HOTSPOT

3.00

kg CO2e (Lithium Battery)

PRIMARY EMISSION SCOPE

Scope 3

Key Highlights

- Use Phase Energy Consumption is the largest single contributor at 10.00 kg CO2e/unit, emphasizing energy efficiency in product design.
- Material Inputs (6.90 kg CO2e/unit) constitute a significant upstream hotspot, highlighting the importance of sustainable sourcing.
- The product benefits from a substantial End-of-Life recycling credit of -2.25 kg CO2e/unit, showcasing circularity efforts.

Recommendations for Reduction

- **Material Optimization:** Explore alternative lower-carbon materials or design for dematerialization.
- **Renewable Energy Expansion:** Increase renewable energy sourcing for production beyond 40% to reduce Scope 2 emissions.
- **Energy Efficiency in Use:** Design dflgrpwrdd for greater energy efficiency during its use phase to minimize downstream Scope 3 impacts.
- **Logistics Optimization:** Investigate more efficient shipping routes, modes, or consolidation strategies.
- **Enhance Circularity:** Strengthen take-back schemes and design for even higher recyclability or remanufacturing.