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# Product Carbon Footprint for zplydquesfo

**35.211 kg CO<sub>2</sub>e**

Report for kjjhxkeplh - Generated: June 3, 2026

Total PCF per 1.0 unit

### Total Footprint

**35.211 kg CO2e**

Per functional unit

### Carbon Intensity

**35.211 kg CO2e/unit**

For 'zplydqesfo' production

### Top Material Hotspot

**Lithium-ion Battery**

5.00 kg CO2e contribution

### Primary Emission Scope

**Scope 3 (Use Phase)**

Largest contributor: 16.80 kg CO2e

## Highlights & Emission Hotspots

- **Use Phase Dominance:** The product's operational use accounts for **16.80 kg CO2e** (47.7% of total PCF), primarily due to energy consumption over its lifespan.
- **Material Intensity:** Raw material production contributes significantly with **12.90 kg CO2e** (36.6% of total PCF), led by the Lithium-ion Battery.
- **Production Energy Impact:** Despite 40% renewable energy use, purchased electricity for production in China contributes **5.40 kg CO2e** (15.3% of total PCF).

## Recommendations for Reduction

1. **Product Design for Energy Efficiency:** Focus on improving the energy efficiency of zplydqesfo during its use phase.
2. **Sustainable Material Sourcing:** Explore alternative materials with lower embodied carbon, and increase the use of recycled content.
3. **Increase Renewable Energy Adoption:** Further invest in renewable energy sources at the kjjhxkeplh production facility in China.
4. **Optimize Logistics:** Evaluate opportunities to optimize transportation routes, shift to lower-emission transport modes where feasible.
5. **Enhance Circularity:** Strengthen existing take-back programs and explore innovative end-of-life solutions.