html

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: **jsdketjdlw**
Company: hfvtjxhtne | Consultant: vnukzkqqih

32.55 kg CO2e / unit

Calculated per 1.0 unit, Cradle-to-Grave | GHG Protocol Standard (2026 LSR)

32.55

Total PCF (kgCO2e/unit)

36.17

Carbon Intensity (kgCO2e/kg)

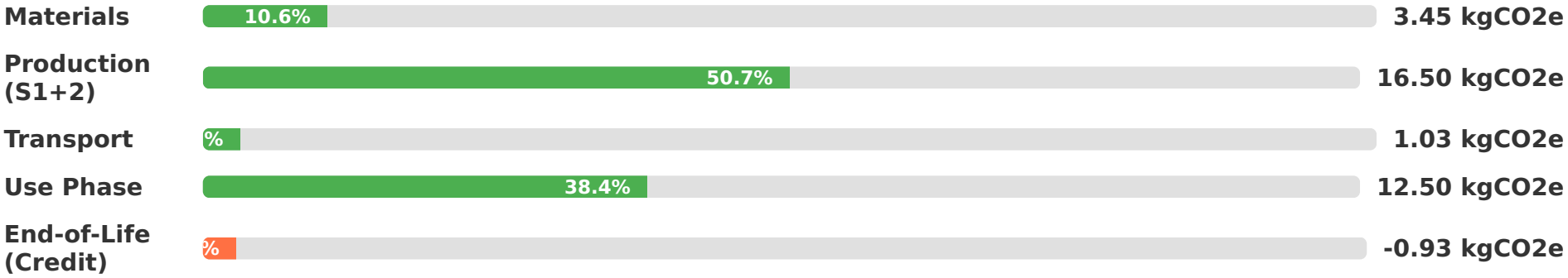
Aluminum Frame

Top Material Hotspot

Scope 2 (Production)

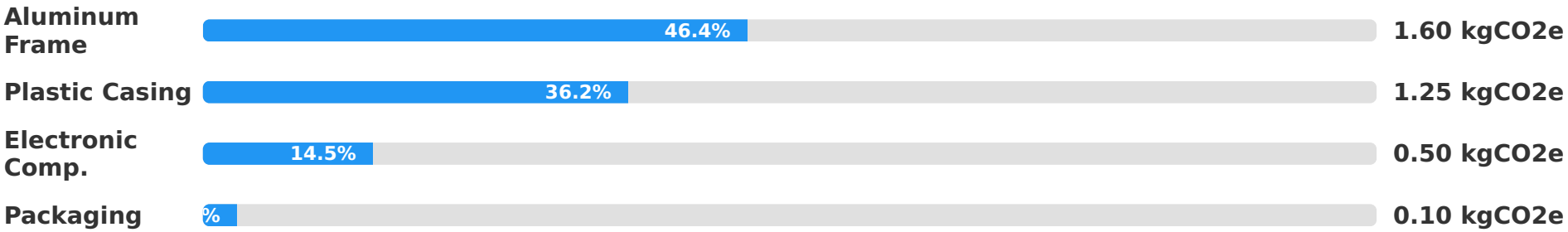
Primary Emission Scope

Lifecycle Stage Breakdown



*Percentages based on total absolute emissions (33.48 kgCO2e) for positive stages.

Material Carbon Impact



*Percentages based on total material emissions (3.45 kgCO2e).

Key Emission Hotspots

Production & Manufacturing (Scope 2 Electricity): Largest contributor, driven by China's electricity mix.

Use Phase: Significant energy consumption over the product's 5-year lifespan by end-users.

Materials Acquisition: Aluminum and Plastic components are notable for their embodied carbon.

Last-Mile Delivery: Despite short distance, it's a critical hotspot per unit due to urban logistics challenges.

Recommendations for Decarbonization

1. **Decarbonize Production Energy:** Procure 100% renewable electricity for manufacturing facilities in China through PPAs or on-site generation.
2. **Enhance Product Energy Efficiency:** Redesign jsdketjdlw to reduce energy consumption during the use phase and extend its lifespan.
3. **Optimize Material Sourcing:** Explore lower-carbon alternatives, increase recycled content, and implement circular design for materials like aluminum and plastics.
4. **Improve Logistics Efficiency:** Collaborate with providers to optimize transport routes, increase vehicle fill rates, and transition to lower-emission modes, especially for last-mile.

5. **Strengthen Circularity:** Leverage the existing take-back program to boost recycling and reuse rates, aiming for closed-loop material cycles.

6. **Data Granularity:** Collect more specific Scope 1 emissions, actual transport data, regional electricity mixes, and EoL processing efficiencies for future analyses.