

Product Carbon Footprint Dashboard for roieiguxvw

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Total PCF: 17.03 kg CO₂e

17.03 kg CO2e

Total Footprint (per 1.0 unit)

China

Production Country

Use Phase

Top Emission Hotspot

Scope 3

Primary Emission Scope (95.42%)

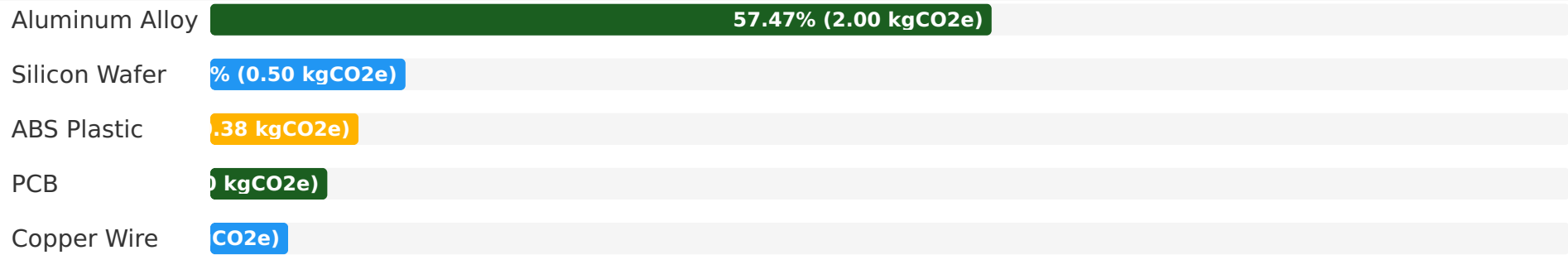
Lifecycle Stage Breakdown



Key Highlights

- **Use Phase Dominance:** The product's operational lifespan contributes a massive 73.4% of the total carbon footprint, making it the primary reduction target.
- **Material Impact:** Raw material acquisition and processing account for over 20% of emissions, with Aluminum Alloy and Silicon Wafer being significant contributors.
- **Renewable Energy Benefit:** The 75% renewable energy usage in production already substantially mitigates the factory's emissions, which represent less than 5% of the total.

Material Carbon Impact (Top Contributors)



Action Plan for Reduction

- 1. Prioritize Use Phase Optimization:** Focus R&D on increasing energy efficiency and educating consumers on sustainable usage.
- 2. Enhance Material Circularity:** Invest in R&D for lower-carbon alternative materials, increase recycled content, and strengthen take-back programs.
- 3. Decarbonize Production Further:** Strive for 100% renewable energy procurement for manufacturing sites.
- 4. Optimize Logistics:** Explore more efficient transport modes and optimize routes for both inbound and outbound logistics.
- 5. Data Refinement:** Continuously gather primary, product-specific data for all lifecycle stages from suppliers.
- 6. Integrate LSR Standard:** Proactively assess the relevance and impact of the 2026 GHG Protocol LSR Standard.