

html

Product Carbon Footprint for jjqdsuyhvu

Report Date: June 2, 2026 | System Boundary: factory_gate (+ downstream)

Overall PCF

65.08 kgCO2e

Total Footprint

65.08 kgCO₂e

per 1.0 unit of jqqdsuyhvu

Carbon Intensity

65.08 kgCO₂e/unit

Standardized by functional unit

Top Emission Hotspot

Use Phase

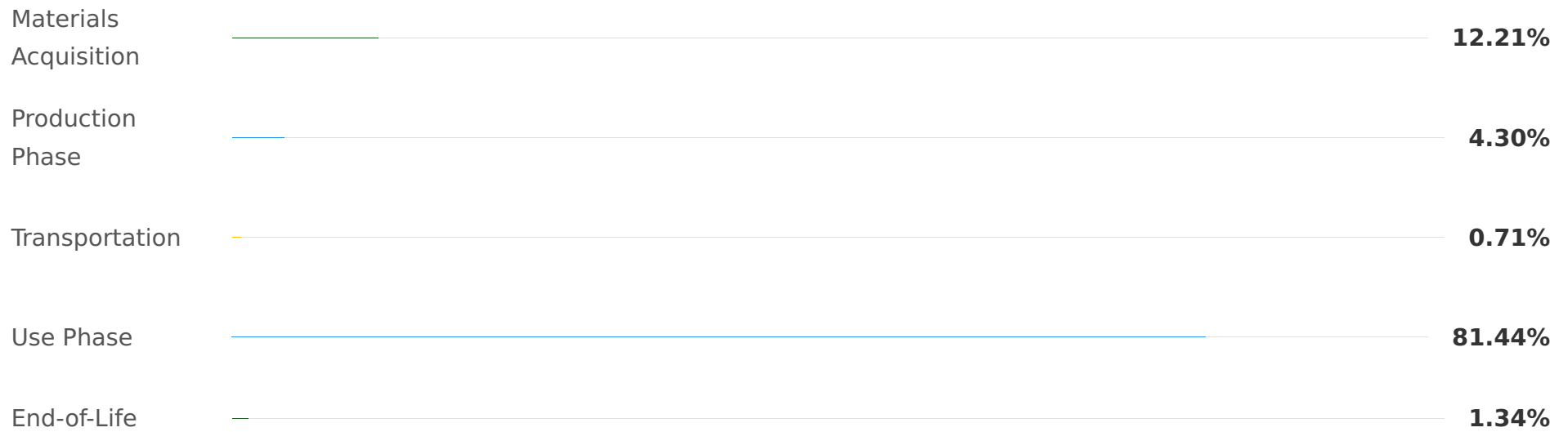
~81.4% of total PCF

Primary Emission Scope

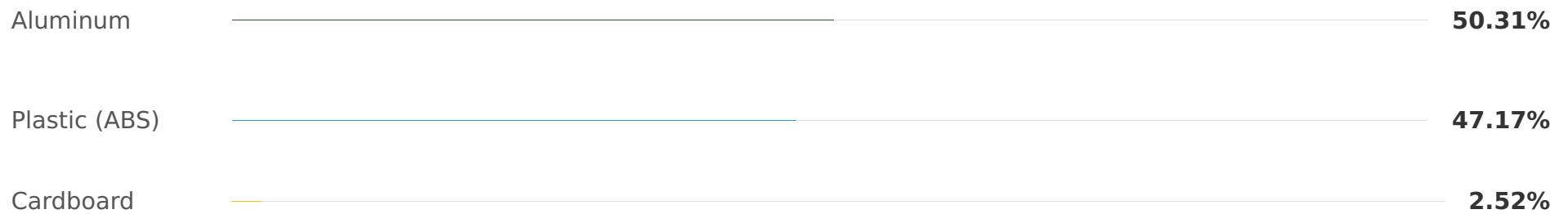
Scope 3

Indirect value chain emissions

Lifecycle Stage Breakdown



Material Footprint Breakdown (from BOM)



Action Plan: How to Reduce jjqdsuyhvu's Footprint

- ✓ **Prioritize Use Phase Decarbonization:** Focus R&D on reducing product energy consumption during use and educate users on energy-saving practices.
- ✓ **Optimize Material Sourcing:** Investigate and implement lower-carbon alternatives for high-impact materials like Aluminum and Plastic (ABS) through supplier engagement.
- ✓ **Enhance Production Efficiency:** Increase renewable energy share in manufacturing facilities beyond 50% and implement more energy-efficient processes.
- ✓ **Strengthen Circular Economy:** Broaden product take-back programs and partner with advanced recycling facilities to improve end-of-life treatment.
- ✓ **Improve Data Granularity:** Systematically collect primary data for all lifecycle stages to enhance accuracy and identify further specific reduction opportunities.

Key Insights & Hotspots

- **Dominant Use Phase Impact:** The product's Use Phase accounts for ~81.4% of the total PCF, primarily due to energy consumption over its 5-year lifespan and grid electricity mix.
- **Material Acquisition Impact:** Raw materials, particularly Aluminum and Plastic (ABS), contribute ~12.2% of the PCF due to their inherent emission factors.
- **Production Phase Contribution:** Despite 50% renewable energy usage, the manufacturing process still contributes ~4.3% due to grid electricity.

