

# Product Carbon Footprint (PCF) Dashboard

Product: fkrjnwoxvd | Company: rxlqkreste

Standard: GHG Protocol | System Boundary: Cradle-to-Grave | Production Country: China

**Net Total Footprint: 10.82 kg CO<sub>2</sub>e / unit**

Total Net Footprint

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

Carbon Intensity

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

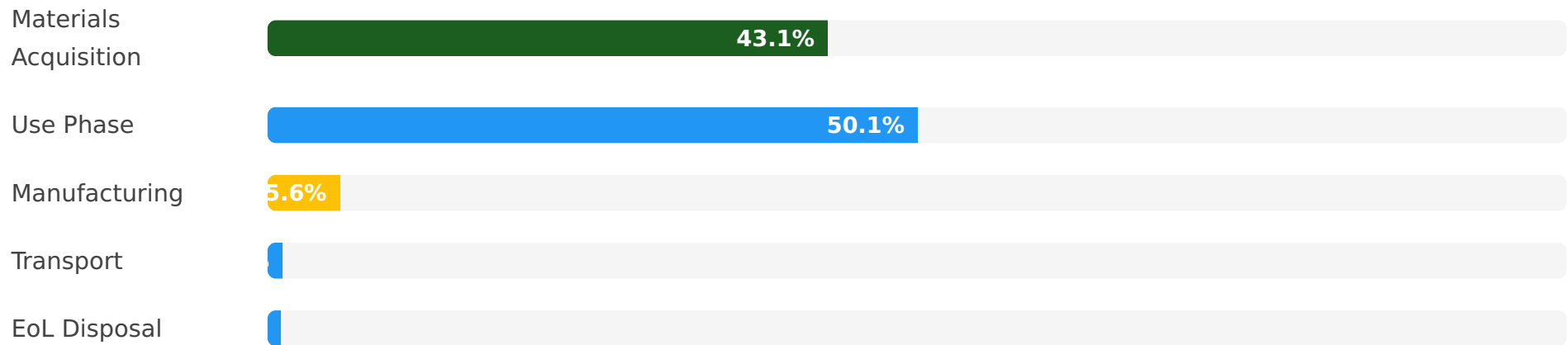
Top Material Hotspot

**PCB (2.50 kg CO<sub>2</sub>e)**

Primary Emission Stage

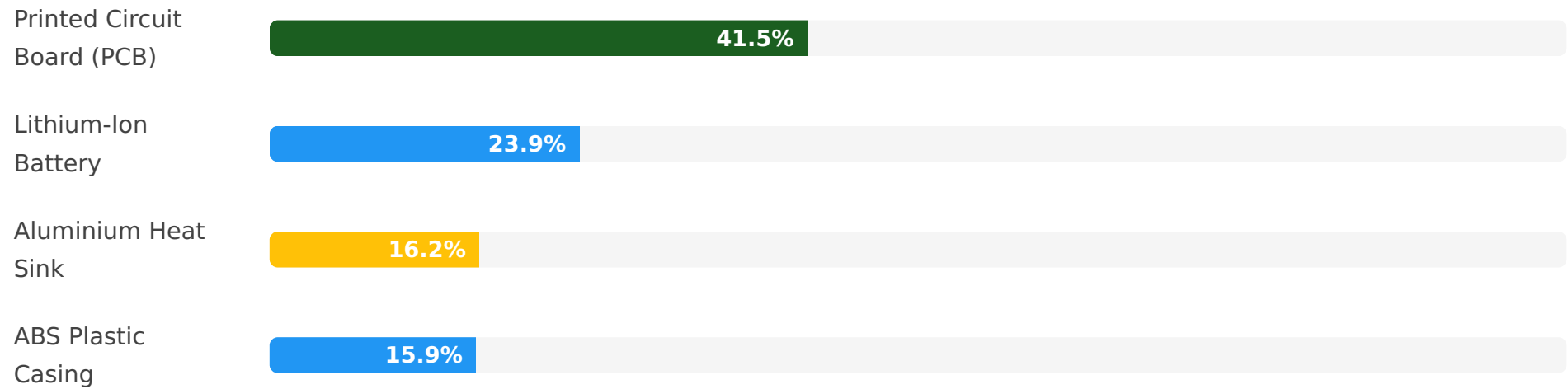
**Use Phase (7.00 kg CO<sub>2</sub>e)**

## Carbon Footprint by Lifecycle Stage



**Note:** Percentages based on Gross Product Carbon Footprint (13.98 kg CO<sub>2</sub>e). A significant recycling credit of **-3.17 kg CO<sub>2</sub>e** from circular economy initiatives reduces the Net Total Footprint.

## Top Material Carbon Impacts (Upstream)



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Total material carbon impact: **6.03 kg CO<sub>2</sub>e.**

## Key Highlights

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- Materials Acquisition (6.03 kg CO<sub>2</sub>e) and Use Phase (7.00 kg CO<sub>2</sub>e) are the most significant emission hotspots in the product's lifecycle.
- Strong circular economy initiatives, including product take-back and refurbishment, provide a substantial recycling credit of -3.17 kg CO<sub>2</sub>e.
- Manufacturing energy in China contributes 0.78 kg CO<sub>2</sub>e, influenced by the regional grid's higher emission factor despite 60% renewable energy use.

## Recommendations for Reduction

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1. **Material Optimization:** Focus on sourcing lower-carbon alternatives or increasing recycled content for components like PCBs, batteries, and aluminum.
2. **Energy Decarbonization in Manufacturing:** Further invest in renewable energy procurement for manufacturing facilities, especially in regions with carbon-intensive grids.
3. **Product Energy Efficiency:** Innovate product design to minimize energy consumption during the 7-year use phase.
4. **Strengthen Circular Economy:** Expand take-back and refurbishment programs to maximize collection rates and material recovery.
5. **Supply Chain Engagement:** Collaborate with suppliers for GHG reduction strategies, including optimized transport and renewable energy adoption.

