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# Product Carbon Footprint for "jiowkrknp"

**3.08 kgCO<sub>2</sub>e** per unit

A detailed analysis of the environmental impact of 'jiowkrknp'.

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**3.08 kgCO<sub>2</sub>e**

TOTAL FOOTPRINT

**3.08 kgCO<sub>2</sub>e/unit**

CARBON INTENSITY

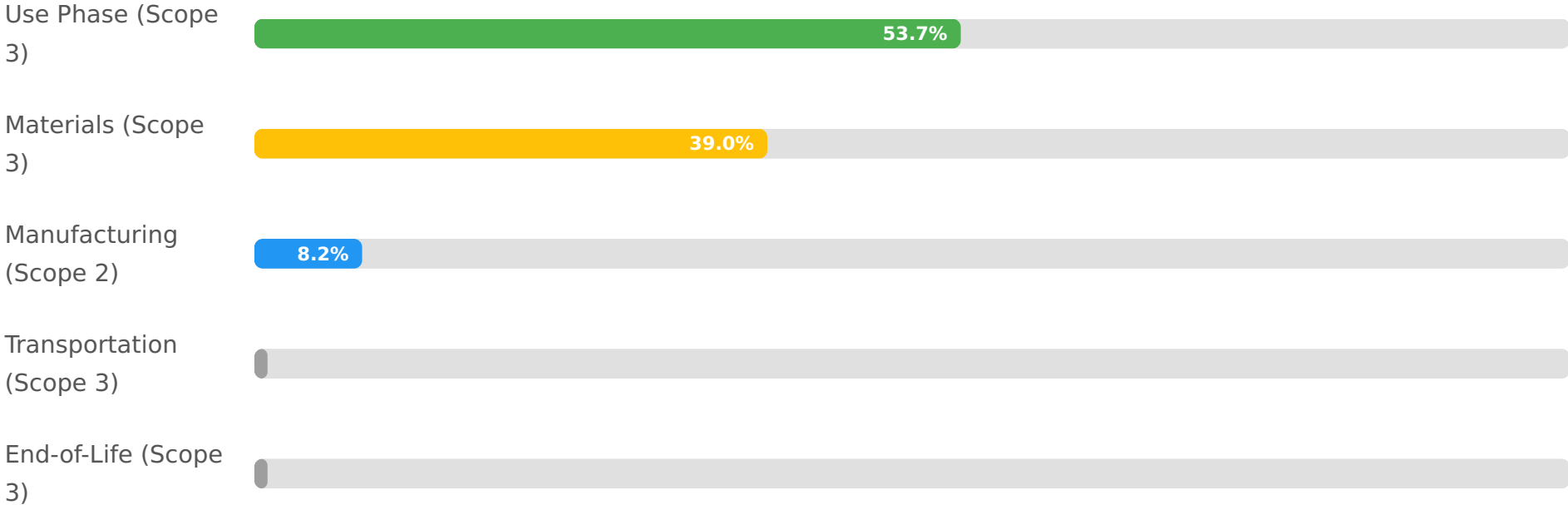
**Li-ion Battery**

TOP MATERIAL HOTSPOT

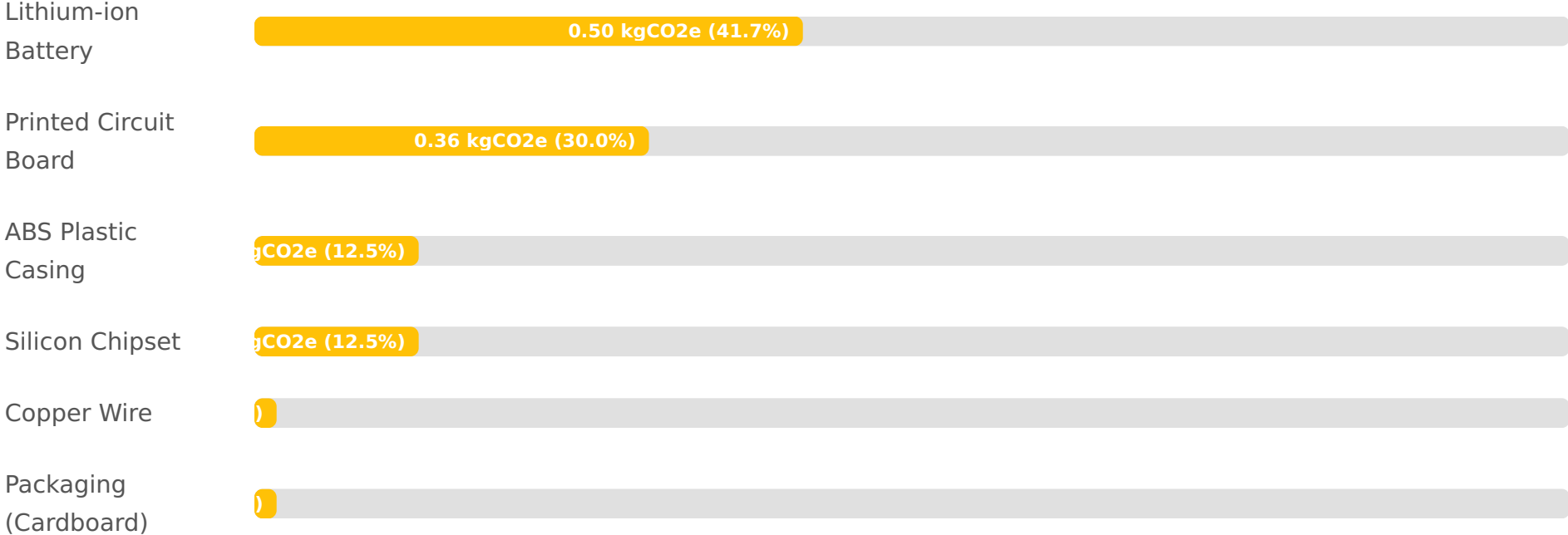
**Scope 3**

PRIMARY EMISSION SCOPE

# Carbon Footprint by Lifecycle Stage



# Material Composition vs. Carbon Impact



## Key Sustainability Highlights

- The **Use Phase** accounts for over half (53.7%) of the product's total carbon footprint, primarily due to electricity consumption over its 5-year lifespan.
- **Raw Materials** contribute significantly (39.0%), with the Lithium-ion Battery and Printed Circuit Board being major hotspots due to their high embodied emissions.
- Despite 45% renewable energy use, **Manufacturing Energy (Scope 2)** still contributes 8.2% to the PCF, highlighting the impact of the remaining grid mix in China.

## How to Reduce Carbon Footprint

- **Optimize Use Phase Efficiency:** Focus on reducing product energy consumption during use and promoting renewable energy adoption in target markets (Europe).
- **Sustainable Material Sourcing:** Prioritize suppliers of low-carbon Lithium-ion Batteries, PCBs, and other high-impact materials. Explore alternative, lower-impact materials.
- **Enhance Production Energy Mix:** Increase renewable energy penetration at manufacturing facilities in China or explore offsetting options for non-renewable electricity.
- **Circular Economy Initiatives:** Continue and expand take-back and recycling programs to maximize material recovery and reduce End-of-Life emissions further.

Product: jiuowkrknp | Quantity: 1.0 unit | System Boundary: factory\_gate | Production Country: China | Standard: GHG Protocol

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