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# Product Carbon Footprint for fyihjjzfnk

**Standard:** GHG Protocol | **Boundary:** Cradle-to-Grave  
**Production Country:** China | **Generated:** May 20, 2026

Overall Product Carbon Footprint

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

carboncalcpcf.com

**10.20**

Total PCF (kgCO<sub>2</sub>e/unit)

**1.0**

Units Quantified

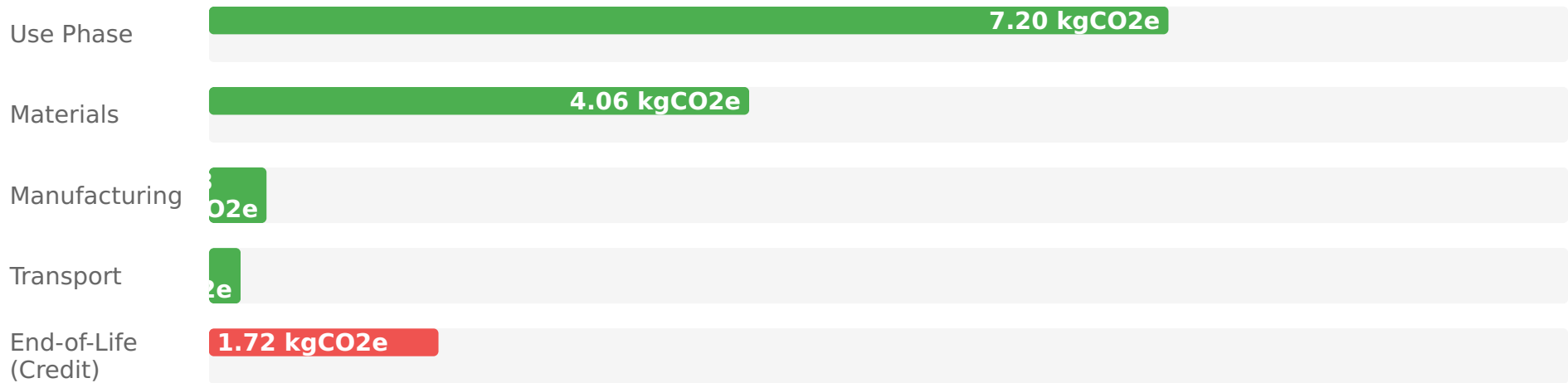
**Scope 3**

Primary Emission Scope

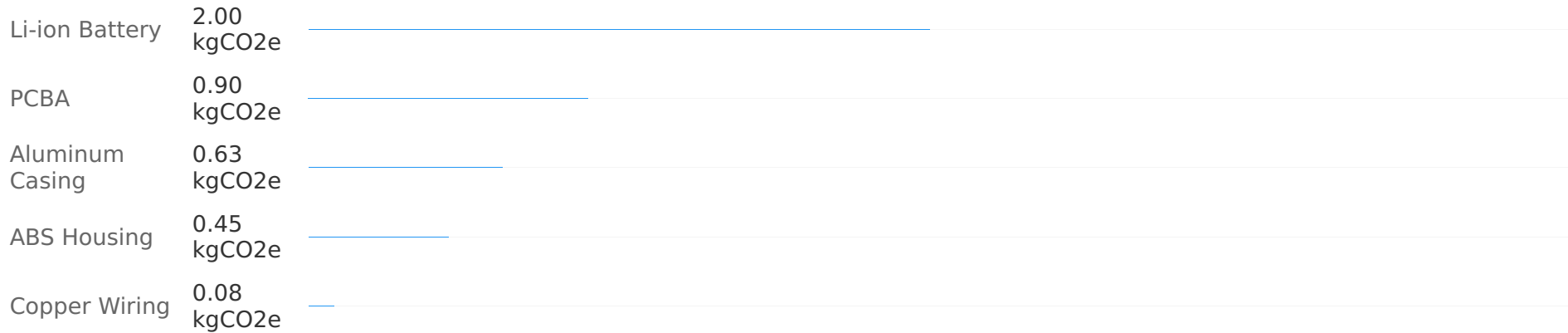
**Li-ion Battery**

Top Material Hotspot

## Lifecycle Emission Breakdown



## Top Material Carbon Impact



## Key Emission Highlights

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- The **Use Phase** is the largest contributor, accounting for approximately **70.6%** of the total carbon footprint, driven by continuous energy consumption over the product's lifespan.
- **Upstream Materials**, particularly the Li-ion Battery and PCBA, represent a significant **39.7%** of emissions due to their energy-intensive production processes.
- Robust **End-of-Life** programs and high recyclability (85%) provide a substantial carbon credit, reducing the net impact by **16.9%**.

## Strategic Action Plan

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- **Optimize Use Phase Efficiency:** Redesign for lower energy consumption during product operation and educate consumers on sustainable usage.
- **Engage Supply Chain:** Collaborate with suppliers to source lower-carbon materials and components, especially for batteries and PCBAs.
- **Expand Renewable Energy:** Further increase renewable energy adoption in manufacturing beyond the current 60% through PPAs or on-site generation.
- **Enhance Circularity:** Continuously strengthen take-back and recycling initiatives, exploring advanced technologies for maximum material recovery.