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Product Carbon Footprint Report: qjfuwnnyky

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Total Lifecycle PCF

20.771 kgCO₂e/unit

Total Lifecycle Footprint

20.771 kgCO₂e/unit

All stages, including Use & EoL

Factory Gate Footprint

6.255 kgCO₂e/unit

Material Acquisition to Manufacturing Exit

Top Emission Hotspot

Use Phase (70.57%)

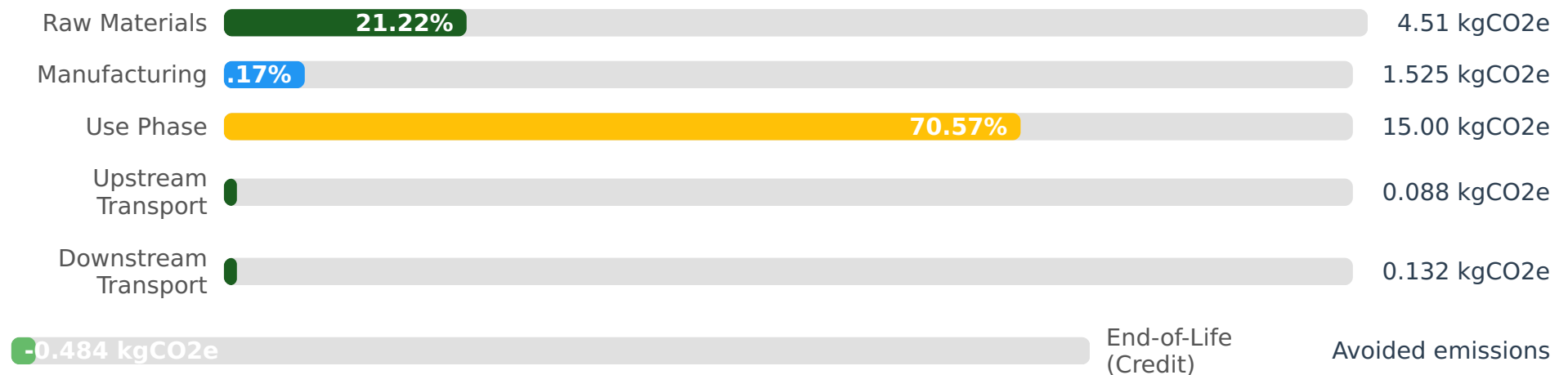
15.00 kgCO₂e/unit during product use

Top Material Hotspot

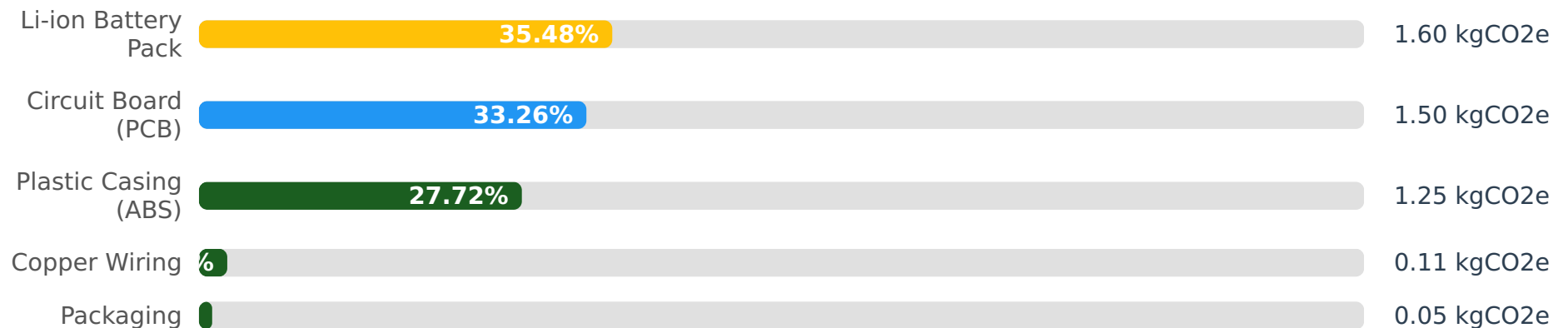
Li-ion Battery (35.48%)

1.60 kgCO₂e/unit from battery production

Lifecycle Stage Breakdown (Gross Emissions)



Raw Material Carbon Impact



Highlights & Key Findings

- The **Use Phase** (15.0 kgCO₂e) is the most significant contributor to the overall lifecycle footprint, highlighting energy efficiency needs.
- **Raw Material Acquisition** (4.51 kgCO₂e) is the largest hotspot within the 'factory_gate' boundary, driven by electronics and metals.
- The **End-of-Life** stage provides a net avoided emission (-0.484 kgCO₂e) due to a high recyclability percentage (70%).

Recommendations for Emission Reduction

- **Material Optimization:** Explore lighter materials, increased recycled content, and lower emission factor alternatives for key components.
- **Manufacturing Efficiency:** Continue investing in renewable energy and optimizing processes to reduce energy intensity at the China facility.
- **Product Design for Use Phase:** Focus on improving qjfuwnnyky's energy efficiency during its operational lifespan to mitigate the largest lifecycle impact.
- **Enhanced Circularity:** Leverage take-back programs to maximize recycling rates and extend product lifespan through repair/refurbishment models.
- **Logistics Optimization:** Refine transport routes, modes (e.g., Ocean Freight from China to Europe), and load factors for both upstream and downstream.