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## Product Carbon Footprint for ythitzerhi

A detailed analysis for jgtpxmkxed, adhering to **GHG Protocol** standards.

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

Calculated on a **cradle-to-grave** system boundary, manufactured in **China**.

## Total Footprint

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

Overall greenhouse gas emissions per unit of ythitzerhi.

## Carbon Intensity

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

Emissions relative to the functional unit (1.0 unit).

## Top Material Hotspot

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

Emissions from Materials Acquisition/Pre-production phase.

## Primary Emission Scope

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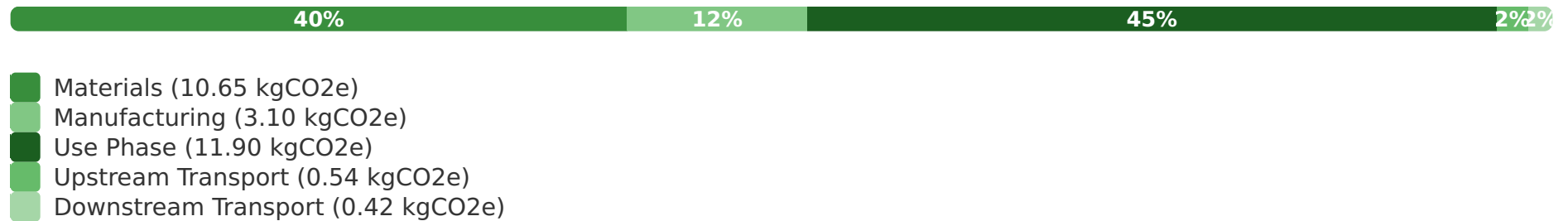
**Scope 3**

Largest contributor to the total carbon footprint.

# Lifecycle Stage Breakdown

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## Breakdown of Positive Emissions (kgCO<sub>2</sub>e)



**Net Savings from End-of-Life:** -1.9320 kgCO<sub>2</sub>e (Achieved through 70% recyclability and circular programs).

## Key Insights & Hotspots

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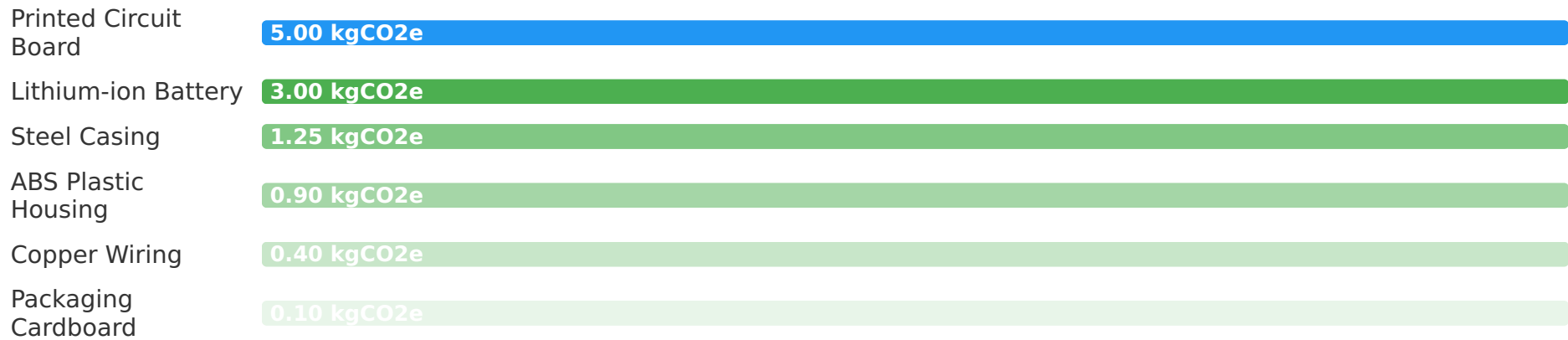
Understanding where the majority of emissions originate:

- **Materials Acquisition/Pre-production (10.65 kgCO<sub>2</sub>e):** Highlights the significant impact of raw material choice and sourcing.
- **Use Phase (11.90 kgCO<sub>2</sub>e):** Energy consumption during the product's lifespan is a major contributor, heavily influenced by the end-user's electricity grid mix.
- **Manufacturing/Production (3.10 kgCO<sub>2</sub>e):** Represents an area for improvement, particularly by increasing renewable energy adoption in China.

## Material Carbon Impact

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Breakdown of the 10.65 kgCO<sub>2</sub>e from Material Acquisition:



## Recommendations & Action Plan

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Strategic steps to reduce the carbon footprint of ythitzerhi:

- Material Optimization:** Investigate opportunities to use lower-carbon materials, increase recycled content, and optimize material efficiency.
- Energy Efficiency in Use:** Explore design improvements for "ythitzerhi" to reduce energy consumption during its use phase.
- Renewable Energy Adoption:** Increase the percentage of renewable energy used in manufacturing operations in China beyond the current 50%.
- Supply Chain Engagement:** Collaborate with suppliers and logistics partners for granular data and emission reduction.
- Circular Economy Initiatives:** Continue investment in and expansion of circular/take-back programs to maximize recycling rates.

