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urwsonenxd Carbon Footprint

Product PCF Analysis for **xvfspzmfpm**

Total PCF: 45.30 kg CO_2e

Total Carbon Footprint

45.30

kg CO_2e / unit

Carbon Intensity

11.33

kg CO_2e / kg product

Top Material Hotspot

Lithium Battery

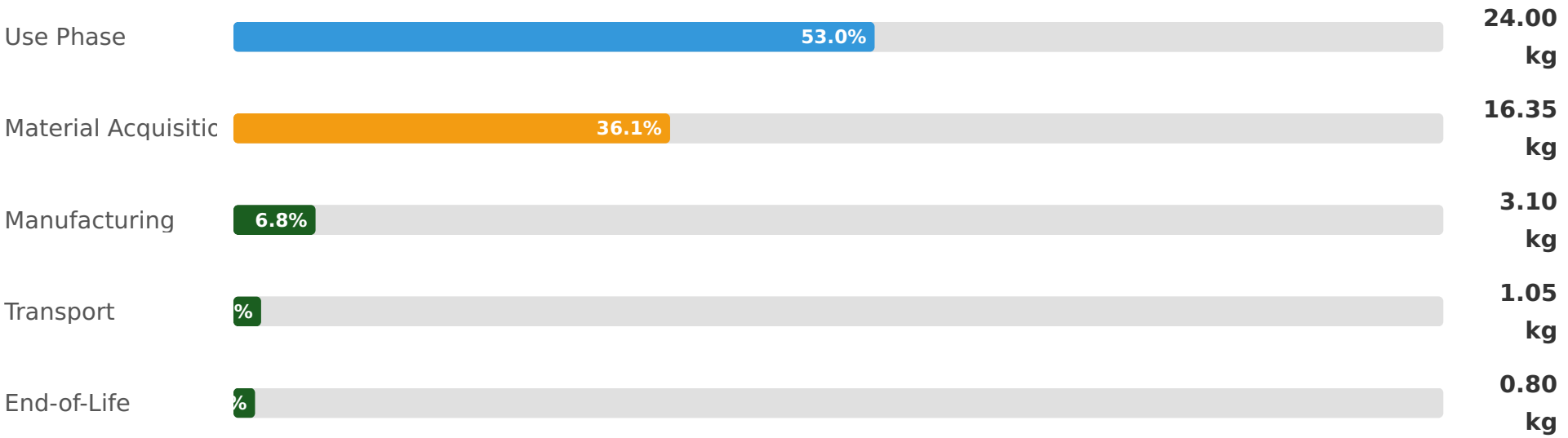
(6.0 kg CO_2e)

Primary Emission Scope

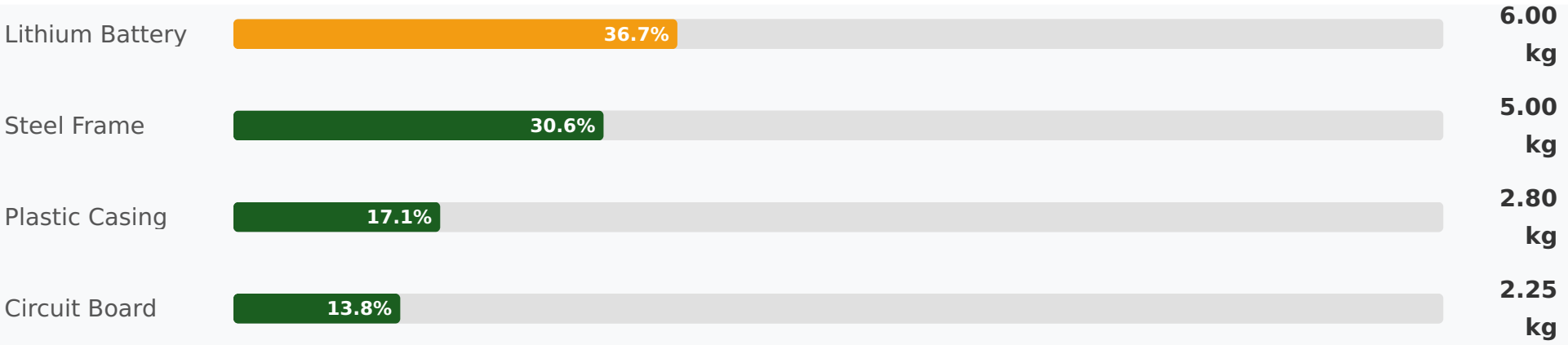
Scope 3

(Value Chain)

Lifecycle Emissions Breakdown



Material Carbon Impact



Emission Highlights

- **Use Phase Dominance:** The product's operational life accounts for 53.0% of the total footprint, primarily due to electricity consumption over its 3-year lifespan.
- **Material Hotspots:** Material acquisition, especially the Lithium Battery and Steel Frame, contributes significantly (36.1%) to upstream emissions.
- **Manufacturing Efficiency:** 50% renewable energy use in production helps moderate manufacturing emissions (6.8%), highlighting renewable energy's impact.

How to Reduce Footprint

- **Enhance Energy Efficiency:** Prioritize R&D for lower energy consumption during the product's use phase.
- **Source Sustainable Materials:** Increase recycled content and explore lower-impact materials, particularly for high-carbon components.
- **Boost Renewable Energy:** Further increase renewable energy in manufacturing and encourage supply chain partners to do the same.
- **Optimize Logistics:** Refine transport routes and modes for both upstream and downstream journeys to minimize emissions.
- **Strengthen Circularity:** Leverage existing take-back programs and develop new initiatives to maximize material recovery and reuse.

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Adhering to GHG Protocol standards