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Product Carbon Footprint for fneuyqujxj

Total Carbon Footprint

136.87 kg CO₂e

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Total Footprint

136.87 kg CO₂e/unit

Carbon Intensity

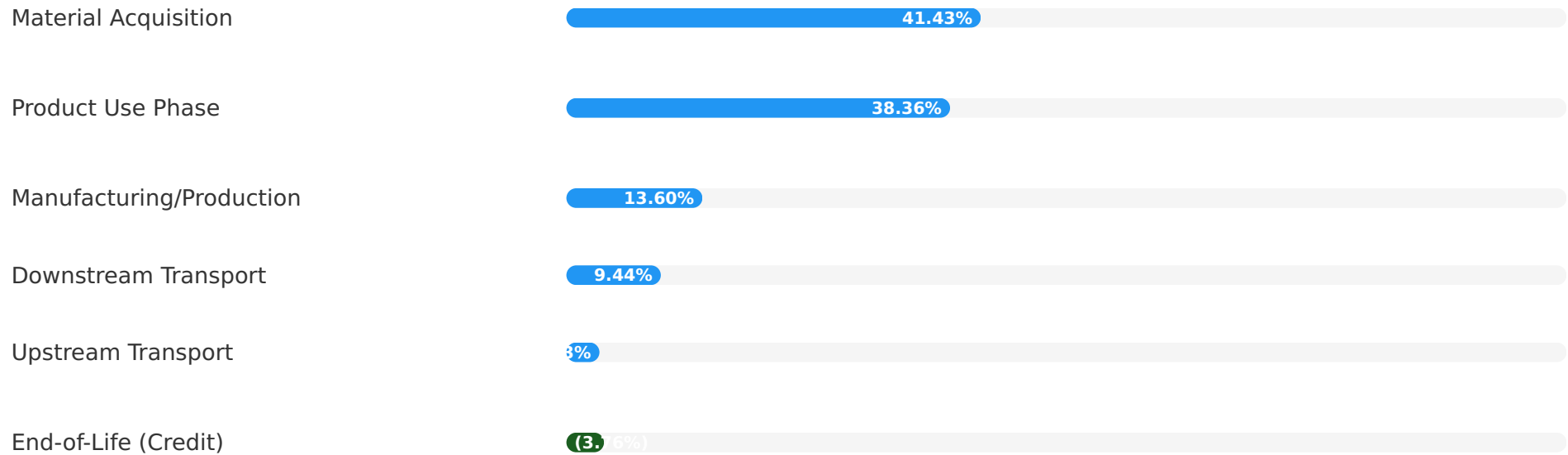
Aluminum Alloy

Top Material Hotspot

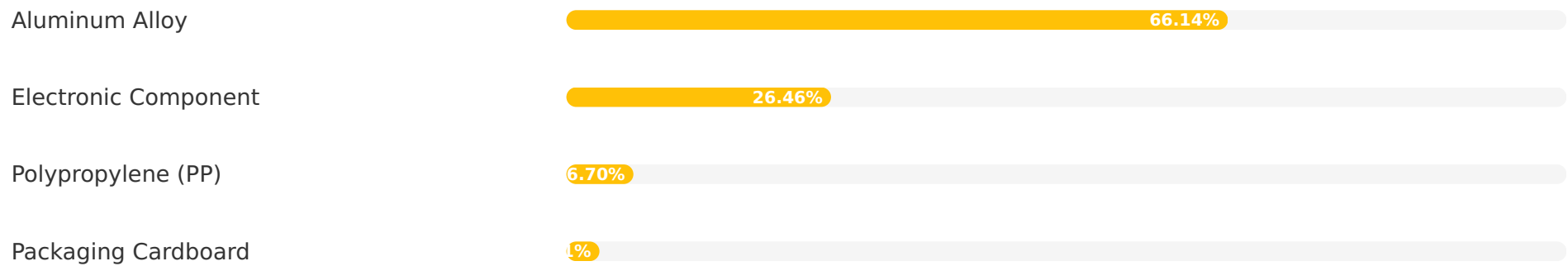
Scope 3

Primary Emission Scope

Lifecycle Stage Breakdown



Material Carbon Impact



Highlights & Hotspots

- Material Acquisition:** This stage accounts for the largest portion (56.7 kg CO₂e), emphasizing the impact of raw material choices and supplier processes.
- Product Use Phase:** Energy consumption during the product's lifespan (52.5 kg CO₂e) is a major contributor, highlighting opportunities for efficiency improvements.
- Manufacturing Emissions:** Despite 75% renewable energy usage, the remaining grid electricity still contributes substantially (18.615 kg CO₂e).

How to Reduce Your Carbon Footprint

- Material Optimization:** Explore lower-carbon alternatives or increase recycled content for high-emission materials like aluminum.
- Energy Efficiency in Use Phase:** Improve product design to reduce energy consumption during its lifespan and educate consumers.



Supply Chain Engagement:

Collaborate with suppliers for primary data, optimize logistics, and explore lower-emission transport modes.



Renewable Energy Expansion:

Further increase renewable energy procurement or generation at production facilities.



Circular Economy Initiatives:

Strengthen take-back programs to maximize material recovery and closed-loop systems.



Enhance Data Granularity:

Seek more specific data for transport distances, vehicle types, and region-specific energy consumption for future accuracy.