html

Product Carbon Footprint Dashboard

Summary Report for: **fnzkmitexg**

Total Footprint: 52.81 kg CO2e

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52.81 kg CO2e

per 1.0 unit of fnzkmitexg

Carbon Intensity

52.81 kg CO2e/unit

Functional Unit: 1.0 unit

Top Material Hotspot

Processor

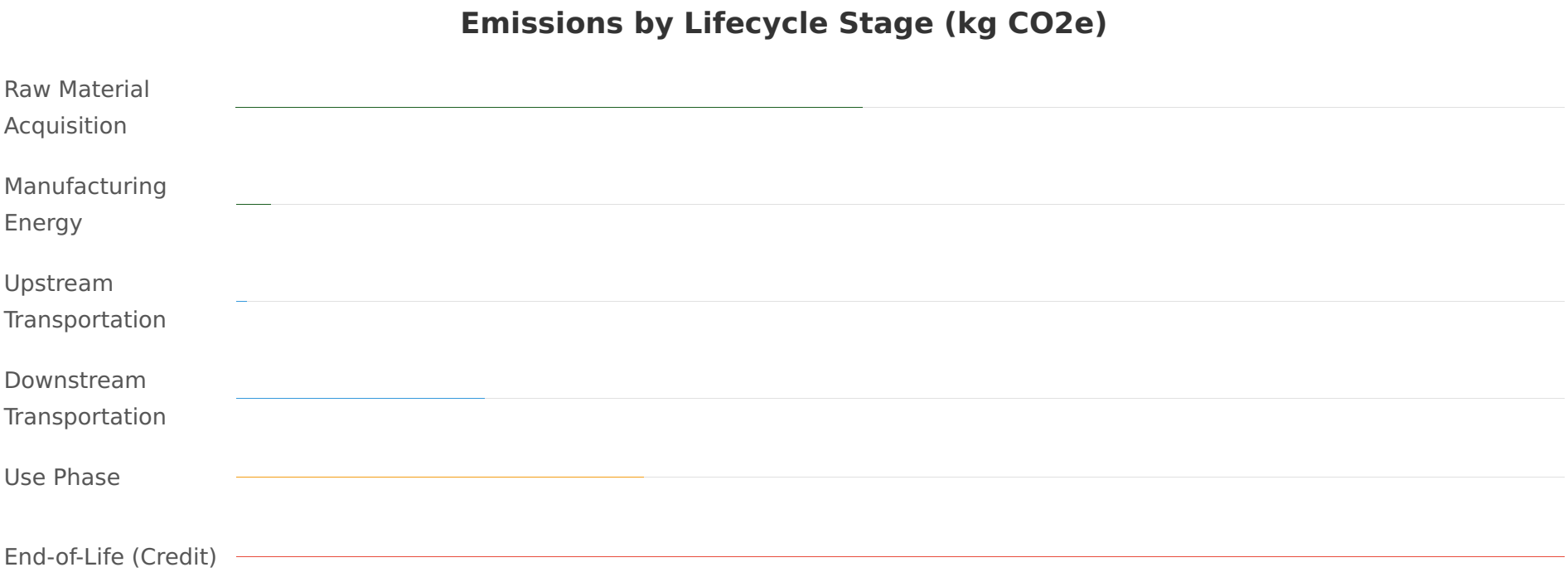
10.5 kg CO2e impact

Primary Emission Scope

Scope 3 (Upstream)

Raw Materials & Use Phase are major contributors

Lifecycle Stage Breakdown



Note: Percentages for positive emissions are relative to their sum (53.51 kg CO2e). End-of-Life represents a carbon credit.

Key Insights & Highlights

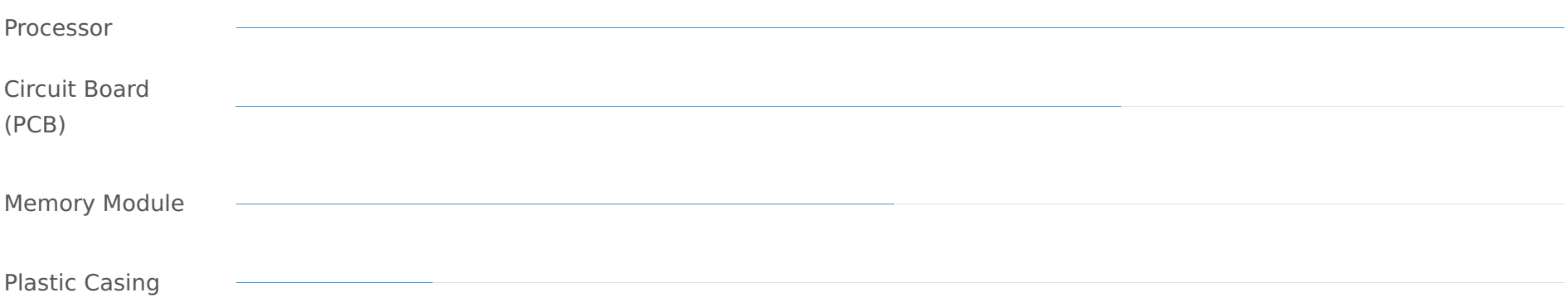
- **Raw Materials Dominance:** Raw Material Acquisition & Pre-processing accounts for nearly half of the positive product's footprint (25.25 kg CO2e).
- **Significant Use Phase:** The Use Phase contributes substantially (16.43 kg CO2e), indicating a need for energy-efficient design.
- **Last-Mile Logistics Impact:** Downstream transportation, particularly Last-Mile Delivery (10.00 kg CO2e), presents a notable emission hotspot.

Recommended Decarbonization Actions

- **Material Optimization:** Explore lower-carbon alternatives or dematerialization, focusing on high-impact components like processors.
- **Energy Efficiency in Use:** Investigate technologies and designs to reduce the product's energy consumption during its operational lifespan.
- **Supply Chain Logistics:** Optimize transportation routes, consider lower-emission modes, and explore local sourcing where feasible.
- **Circular Economy Initiatives:** Enhance existing take-back programs and opportunities for product longevity, repairability, and high-value recycling.
- **Renewable Energy Procurement:** Increase the use of renewable energy in manufacturing facilities, both owned and supplier-operated.

Top Material Carbon Impact

Highest Carbon Contributing Materials (kg CO2e)



Based on the detailed Bill of Materials for fnzkmitexg.