

Product Carbon Footprint Dashboard

Product: fomtjgttuu | Company: wuvkxeoxyh | Generated: May 22, 2026

38.445 kgCO₂e

Total PCF for 1.0 unit

Total Footprint

38.445

kgCO₂e

Carbon Intensity

38.445

kgCO₂e / unit

Top Material Hotspot

Aluminum Alloy

2.5 kgCO₂e (52.36% of materials)

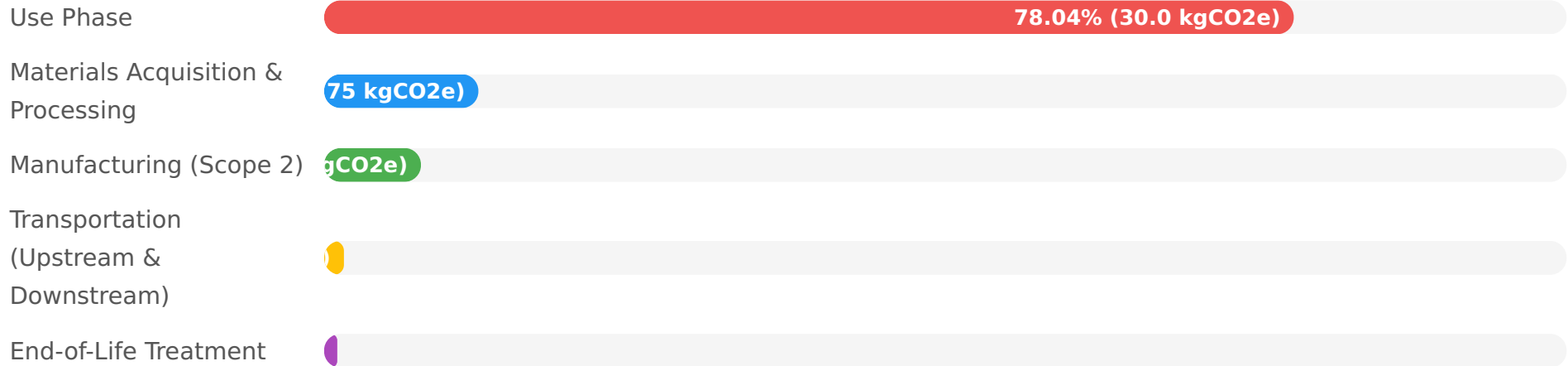
Primary Emission Scope

Use Phase

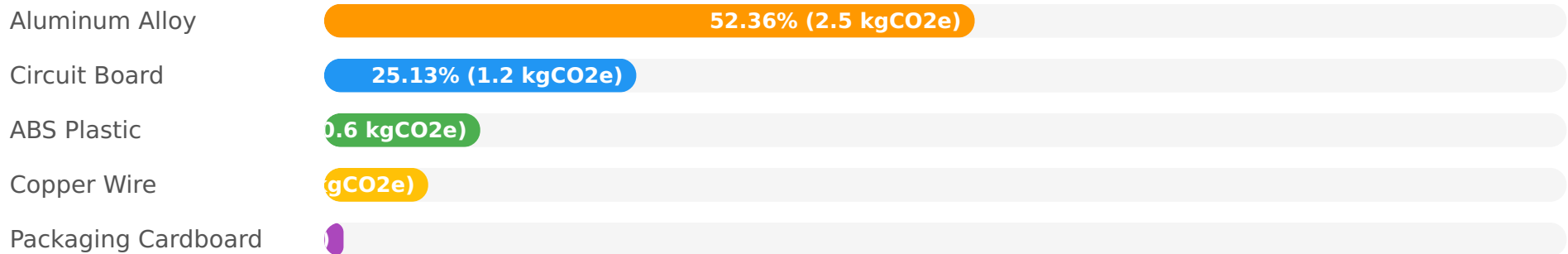
Scope 3 (78.04% of total)

Lifecycle Stage Breakdown

Emissions by Lifecycle Stage



Material Composition vs Carbon Impact (Relative to Total Material Emissions)



Key Insights & Recommendations

Highlights

- Use phase energy consumption is the dominant emission source, accounting for 78.04% of the total carbon footprint.
- Material acquisition contributes significantly at 12.42%, with Aluminum Alloy being the primary hotspot within materials.
- Purchased electricity for manufacturing (Scope 2) represents a notable 7.80% of total emissions.

Strategic Action Plan for Reduction

1. **Optimize Use Phase:** Redesign for enhanced energy efficiency, promote renewable energy use by consumers, and educate on efficient product usage.
2. **Sustainable Material Sourcing:** Prioritize low-carbon alternatives or increase recycled content for high-impact materials, particularly Aluminum Alloy.
3. **Renewable Energy Procurement:** Increase renewable energy usage at manufacturing facilities and explore green electricity tariffs or on-site generation.
4. **Logistics Optimization:** Implement more efficient transport modes (e.g., rail or sea over air where feasible) and optimize routes to reduce transportation emissions.
5. **Circular Economy Integration:** Further develop and promote take-back and recycling programs to maximize material recovery and minimize waste.

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