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Product Carbon Footprint for **zumestgzoq**

Total PCF:
18.42 kgCO₂e

Product Weight

0.85 kg

Carbon Intensity

21.67

kgCO₂e/kg

Top Material Hotspot

Aluminum Casing

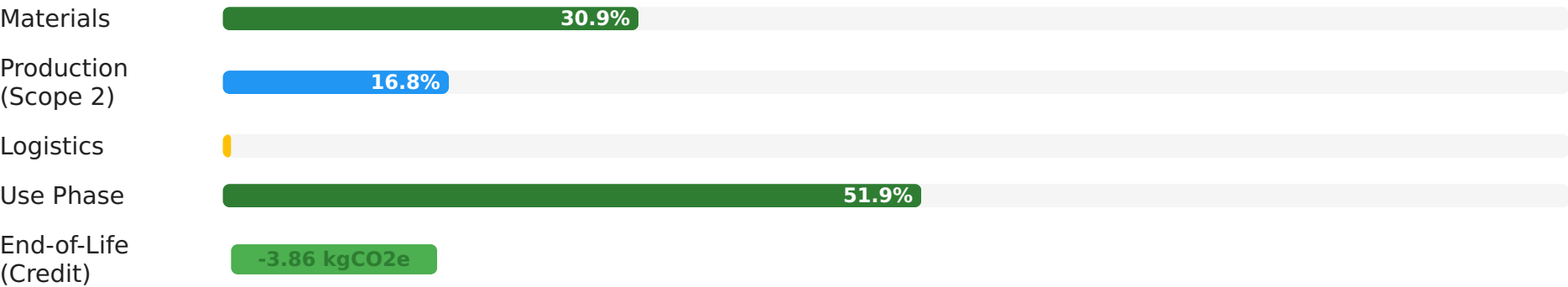
4.25 kgCO₂e

Primary Emission Scope

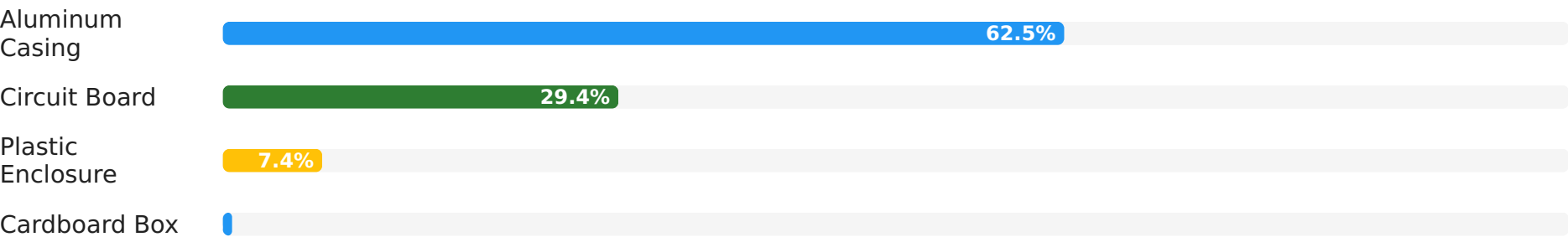
Scope 3

Use Phase & Materials

Lifecycle Stage Breakdown



Material Carbon Impact



Highlights & Key Takeaways

- The Use Phase is the largest contributor to the overall footprint, accounting for approximately 51.9% of positive emissions.
- Material acquisition, particularly Aluminum Casing and Circuit Board, represents a significant upstream impact, contributing 30.9% of positive emissions.
- End-of-Life recycling initiatives provide a substantial carbon credit of -3.86 kgCO₂e, significantly improving the net product footprint.

Recommendations for Decarbonization

- ✓ ****Material Optimization:**** Investigate opportunities for using lower-carbon materials, increasing recycled content, and working with suppliers for transparent sourcing.
- ✓ ****Manufacturing Efficiency:**** Further increase renewable energy procurement at manufacturing facilities and explore energy efficiency improvements in production processes.
- ✓ ****Use Phase Enhancement:**** Explore design choices that reduce energy consumption during the product's lifespan, or extend product durability.
- ✓ ****Circular Economy Integration:**** Strengthen existing circular/take-back programs to maximize material recovery and re-use, aiming for even higher recyclability rates.