

html

Product Carbon Footprint: xxrelnjekg

Company: xdivtjxdkg

Consultant: wgudswkpsi

Standard: GHG Protocol, 2026 Updates

System Boundary: factory_gate

TOTAL PRODUCT PCF

149.63 kgCO2e

(Per 1.0 unit)

PRODUCT NAME

xxreInjekg

CARBON INTENSITY

149.63 kgCO₂e/unit

TOP MATERIAL HOTSPOT

Aluminum Casing

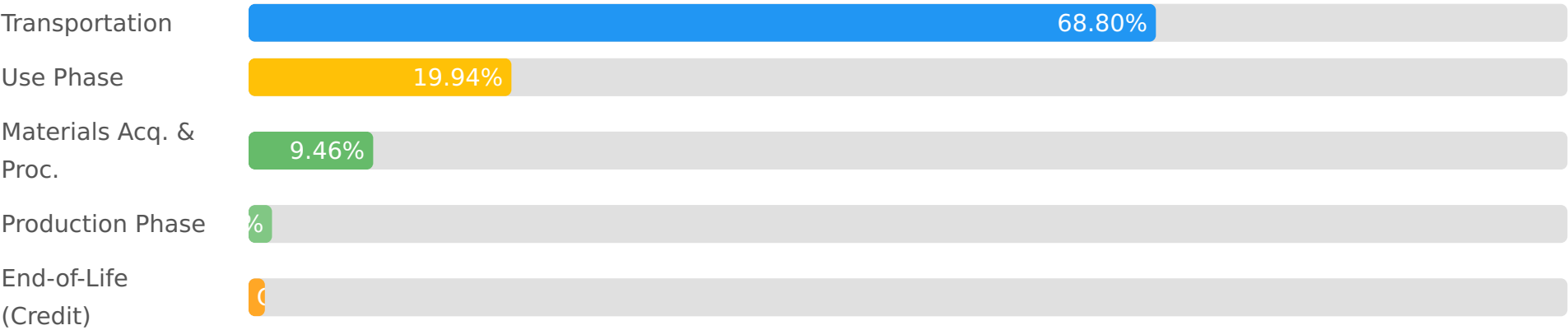
(& Battery Pack)

PRIMARY EMISSION SCOPE

Scope 3

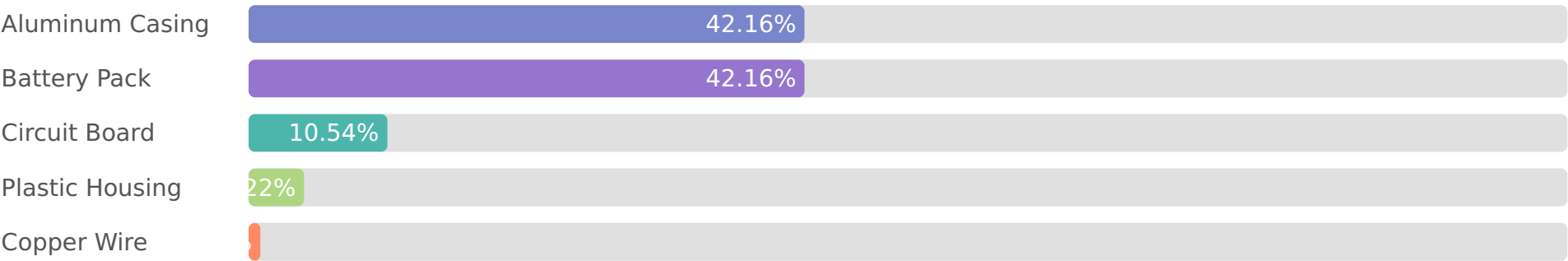
(Transportation & Use)

Lifecycle Stage Breakdown



Note: Percentages shown for positive contributions, relative to 150.43 kgCO2e. End-of-Life represents a net carbon removal/offset.

Material Carbon Impact



Key Insights

- Transportation is the largest emission hotspot, accounting for nearly 70% of the total PCF, primarily due to global supply chain logistics.
- The Use Phase contributes significantly (20%), emphasizing the importance of energy-efficient product design for long-term sustainability.
- Materials Acquisition, particularly Aluminum and Battery components, represents a substantial upstream impact, highlighting raw material choices.

Action Plan for Reduction

- **Optimize Logistics:** Implement strategies to reduce transport distances, explore alternative lower-emission modes, and consolidate shipments.
- **Enhance Product Energy Efficiency:** Focus R&D on minimizing energy consumption during the product's operational life.
- **Sustainable Material Sourcing:** Prioritize lower-carbon materials, increase recycled content, and engage with eco-conscious suppliers.
- **Strengthen Circularity:** Expand take-back programs and invest in advanced recycling technologies to maximize material recovery.

- **Increase Renewable Energy:** Encourage and support the transition to renewable energy sources in manufacturing and supply chain operations.

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Data based on GHG Protocol standards, 2026 updates, and illustrative values where indicated.