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Product Carbon Footprint Analysis

Product: **fsnvwkirry** | Report Date: **May 22, 2026**

Total Carbon Footprint: **11.15 kg CO2e** per unit

Total Footprint

11.15

kg CO2e per unit

Carbon Intensity

11.15

kg CO2e / unit

Top Emission Hotspot

Materials

7.55 kg CO2e (67.7%)

Primary Emission Scope

Scope 3

10.37 kg CO2e (93.0%)

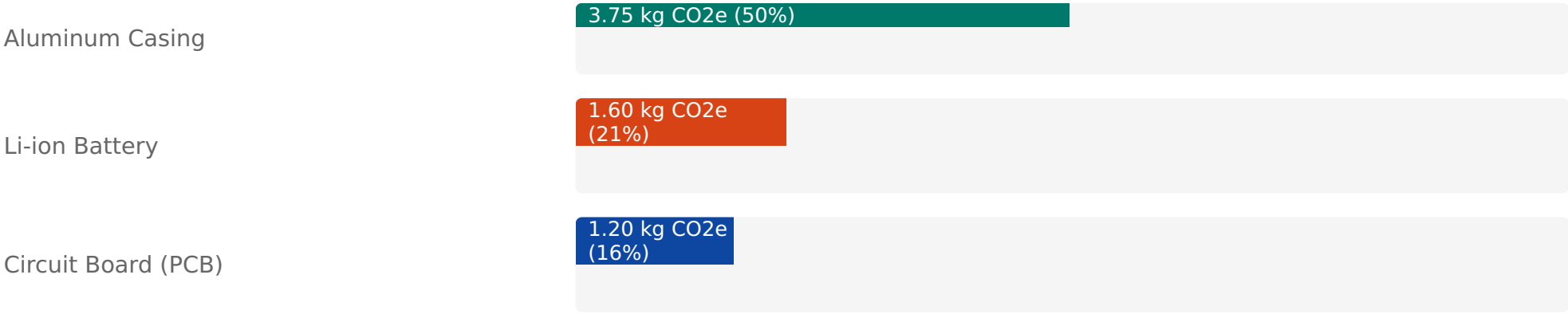
Lifecycle Emissions Breakdown

Net total includes a -0.64 kg CO2e reduction from End-of-Life recycling credits.

- Material Acquisition
- Production
- Transportation
- Use Phase
- EoL Credits

Top Material Carbon Hotspots (within Material Acquisition)

Based on a total material impact of 7.55 kg CO2e.



Highlights & Key Insights

- The total carbon footprint for 'fsnvwkirry' is **11.15 kg CO2e per functional unit**, with the value chain (Scope 3) dominating emissions at 93%.
- **Material Acquisition & Processing** is the most significant hotspot, contributing 67.7% of the total PCF, driven notably by the Li-ion battery and aluminum casing.
- The **Use Phase** is the second largest contributor, accounting for 26.9% of emissions, highlighting the importance of energy consumption during the product's lifespan.

Recommendations & Action Plan

- **Material Optimization:** Investigate lower-carbon intensity materials or increase recycled content for aluminum, plastic, and battery components to address the largest hotspot.
- **Energy Efficiency in Use:** Implement design improvements to reduce the product's energy consumption during its lifespan and promote energy-saving practices to users.

- **Supply Chain Engagement:** Collaborate with key suppliers, especially for high-impact materials, to encourage transparency and support emissions reduction initiatives upstream.
- **Circular Economy Initiatives:** Enhance existing take-back and recycling programs to maximize material recovery and further increase circularity benefits, as EoL credits already show positive impact.