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Product Carbon Footprint for dotddohhnh

Company: ylktqgivpz | Standard: GHG Protocol | Boundary: factory_gate (cradle-to-grave analysis)

Total
PCF

**27.674 kgCO₂e/
unit**

Key Metrics

Total Footprint

27.674

kgCO2e/unit

Carbon Intensity

27.674

kgCO2e per functional unit

Top Material Hotspot

Aluminum

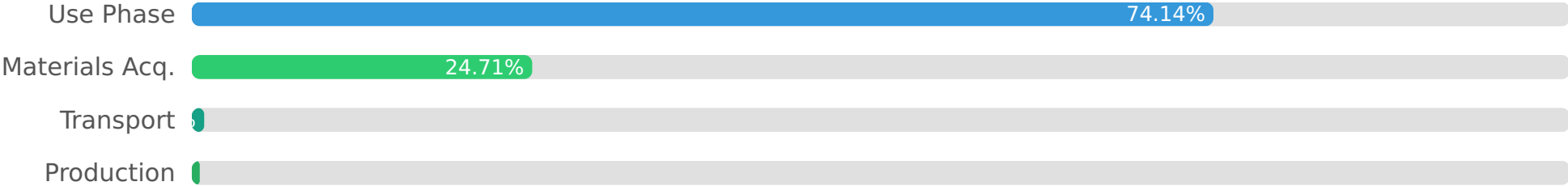
50% of Material Impact

Primary Emission Scope

Scope 3

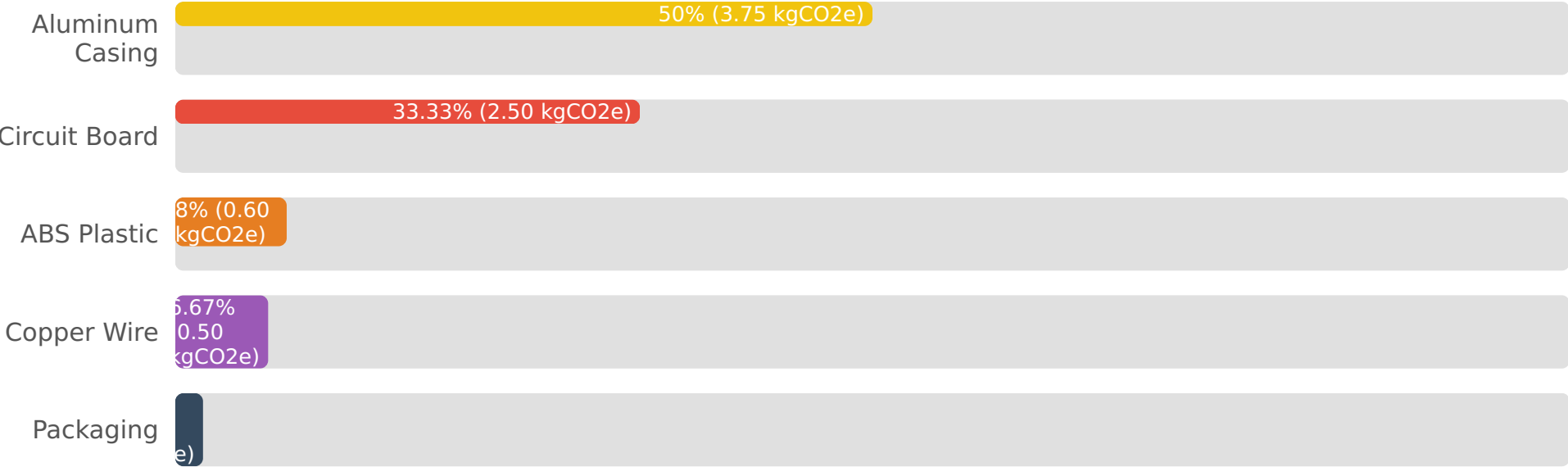
99.73% of Total PCF

Lifecycle Stage Breakdown (Gross Emissions)



Net avoided emissions from End-of-Life: **-2.676 kgCO2e**

Material Carbon Impact



Highlights & Insights

- **Use Phase Dominance:** The product's operational life accounts for approximately 74% of its gross carbon footprint, primarily due to electricity consumption.
- **Material Hotspots:** Raw material acquisition, especially for Aluminum Casing and Circuit Board, represents the second largest impact category (25% of gross emissions).
- **Circular Economy Impact:** High recyclability (80%) and a company take-back program contribute significant avoided emissions, demonstrating strong circularity benefits (-2.676 kgCO₂e).

Recommendations for Emission Reduction

- **Energy Efficiency:** Focus on optimizing dotdohnh's energy consumption during the use phase through design and smart features.
- **Sustainable Materials:** Explore lower-carbon alternatives or increased recycled content for high-impact materials like aluminum and plastics.
- **Extended Lifespan:** Enhance product durability and repairability to amortize upfront emissions over a longer useful life.
- **Supplier Engagement:** Collaborate with upstream suppliers to promote renewable energy adoption in their manufacturing processes.