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mqpkryuuzg

Smart Home Hub | Factory-Gate to Grave

TOTAL PRODUCT CARBON FOOTPRINT (1 unit)

11.32 kgCO2e

Key Carbon Metrics

Total Footprint

11.32 kgCO₂e

per unit

Carbon Standard

GHG Protocol

2026 LSR Compliant

Top Material Hotspot

Circuit Board

1.50 kgCO₂e (42.4%)

Primary Emission Scope

Scope 3

~98.7% of total

Recommendations for Impact Reduction

- 1. Optimize Use Phase Efficiency:** Implement more energy-efficient components and smart power management features to reduce operational energy consumption.
- 2. Enhance Material Circularity:** Increase recyclability beyond 60% and boost the use of recycled content in new products to further mitigate upstream material impacts.
- 3. Deep Dive into Material Suppliers:** Collaborate with suppliers of key components (e.g., circuit boards, aluminum) to promote renewable energy and efficient production in their processes.
- 4. Source 100% Renewable Energy for Production:** Transition to full renewable energy at the manufacturing facility in China to eliminate remaining Scope 2 emissions.
- 5. Refine Data Collection:** Prioritize gathering specific, primary data for regional grid emission factors and actual transport emissions for enhanced accuracy in future analyses.