

Product Carbon Footprint Analysis: fwjvizlypk

Product: fwjvizlypk (Smart Home Device) | **Quantity:** 1.0 unit

System Boundary: Cradle-to-Grave | **Standard:** GHG Protocol Product Standard

Production Country: China | **Generated Date:** May 26, 2026

Total Product Carbon Footprint

16.64 kgCO₂e

Key Metrics

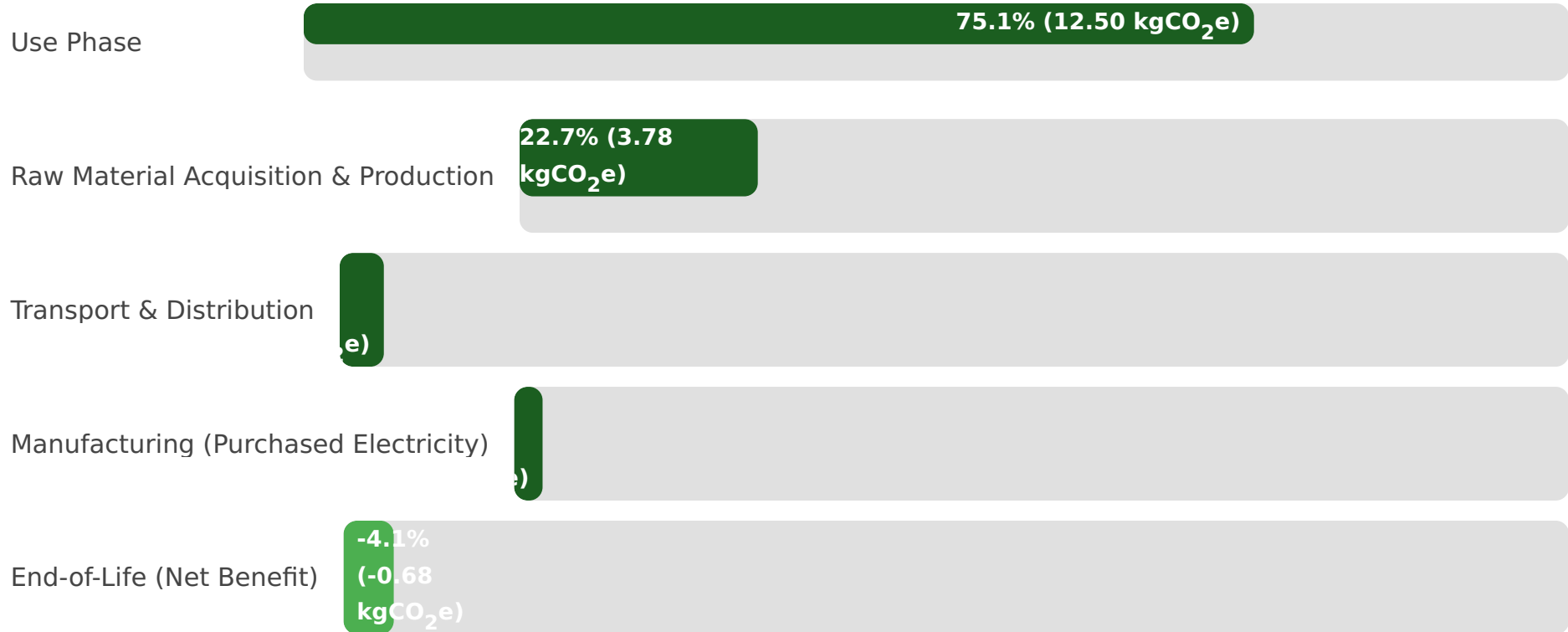
Carbon Intensity

16.64 kgCO₂e/unit

Top Material Hotspot

PCB with Components

Lifecycle Stage Breakdown



Recommendations for Reduction

1. **Energy Efficiency in Use Phase:** Invest in R&D to drastically reduce the energy consumption of fwjvizlypk during its operational lifespan, as this is the dominant hotspot. Engage consumers with clear information on energy-efficient usage.
2. **Sustainable Material Sourcing:** Explore materials with lower embedded carbon, increase the use of recycled content in components like ABS plastic, and work with suppliers to gather primary emission data.
3. **Manufacturing Decarbonization:** Continue to increase renewable energy procurement in manufacturing facilities in China or transition to regions with lower grid emission factors.
4. **Optimized Logistics:** Review transportation networks for efficiency gains, prioritize less carbon-intensive shipping methods, and explore consolidation opportunities.
5. **Enhance Circularity:** Continue to strengthen take-back and recycling programs, aiming to increase actual material recovery rates and explore refurbishment/remanufacturing loops for components.