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Product Carbon Footprint for **uvnwnhnrn**

136.271 kgCO₂e / unit (Cradle-to-Grave)

Total PCF (Cradle-to-Grave)

136.271 kgCO₂e

Carbon Intensity

136.271 kgCO₂e/unit

Top Material Hotspot

Aluminum Casing

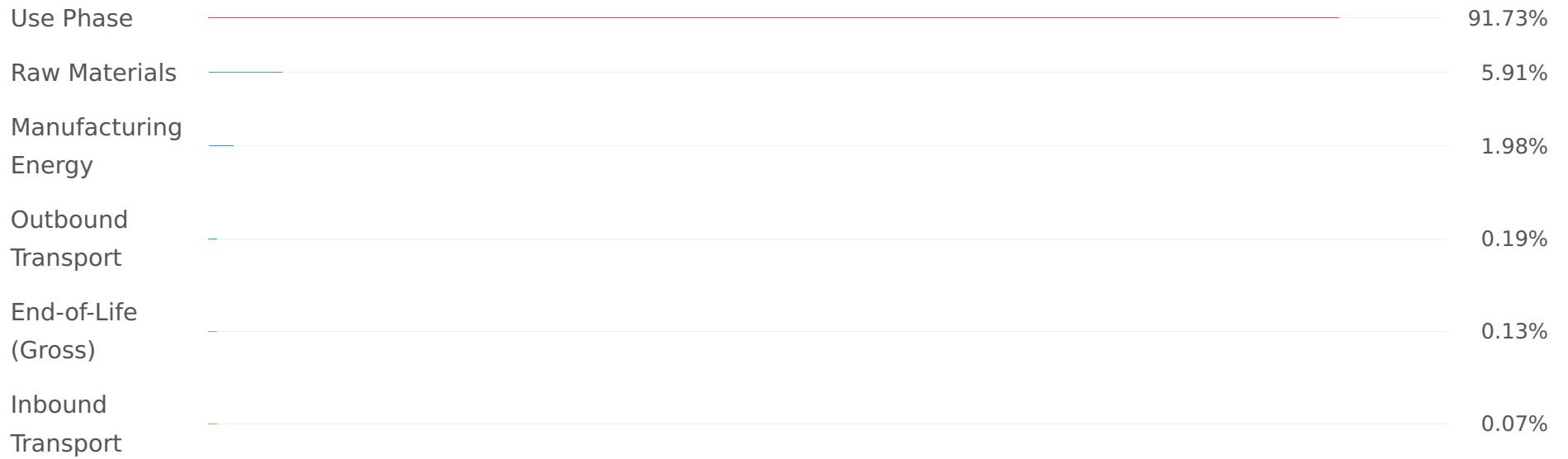
4.00 kgCO₂e (49.69% of material impact)

Primary Emission Scope

Use Phase

91.73% of total PCF (Scope 3)

Lifecycle Emission Breakdown



****Optimize Use Phase Efficiency:**** Invest in R&D to significantly reduce the product's energy consumption during its use phase, as this is the most critical area for impact reduction.

****Enhance Renewable Energy Adoption:**** Further increase renewable energy usage at manufacturing facilities in China or procure high-quality Renewable Energy Certificates (RECs) to reduce Scope 2 emissions beyond the current 70%.

****Material Optimization:**** Explore alternative, lower-carbon materials for high-impact components like the aluminum casing and circuit board, or source from suppliers with verified low-carbon production processes.

****Strengthen Circularity:**** Continue promoting and expanding take-back programs and investigate innovative design for disassembly and material recovery to maximize recycling rates and minimize waste (85% recyclability achieved).