

html

Product Carbon Footprint Dashboard

for hoyprgpzex

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Total Carbon Footprint
38.29 kg CO₂e

Reporting Standard
GHG Protocol

System Boundary
Factory Gate+



Total Footprint

38.29

kg CO₂e / unit

Carbon Intensity

38.29

kg CO₂e / unit

Top Material Hotspot

Aluminum

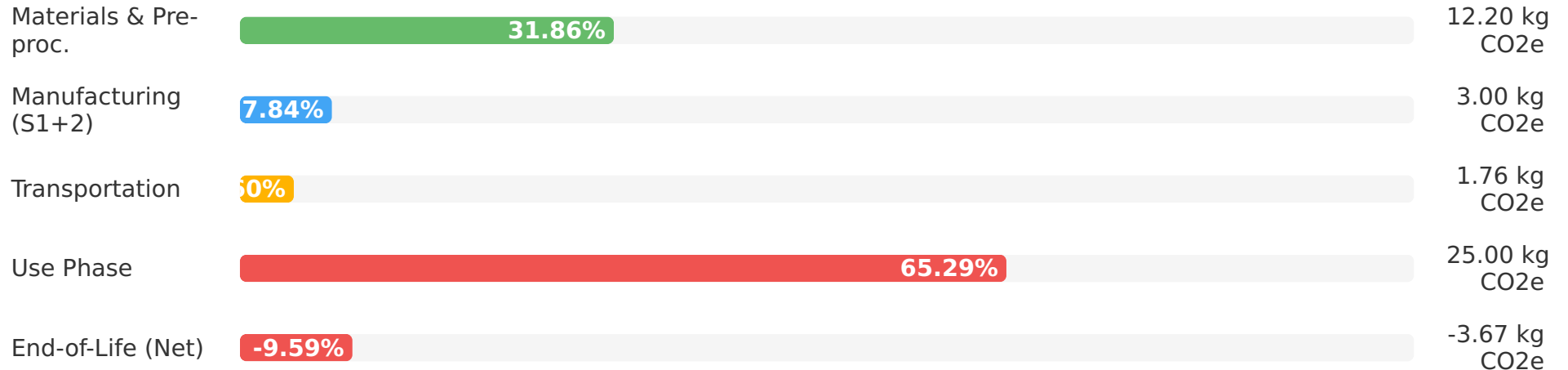
5.00 kg CO₂e

Primary Emission Scope

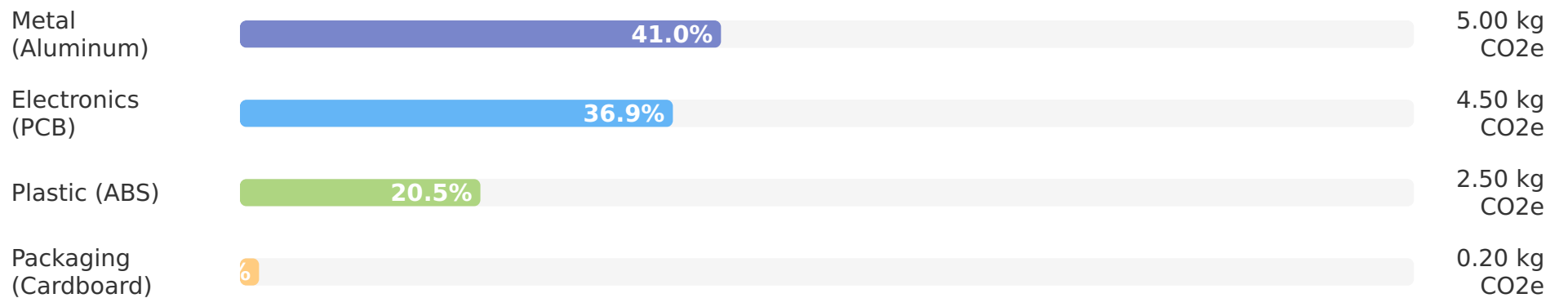
Scope 3

(Use Phase - 65.29%)

Lifecycle Stage Carbon Breakdown



Material Carbon Impact



Key Carbon Hotspot Highlights

Dominant Use Phase: The product's operational energy consumption accounts for 65.29% of its total footprint, making it the primary impact area.

Material Embodied Emissions: Material acquisition and pre-processing contribute significantly (31.86%), with metal components being a key factor.

Circular Economy Benefit: A high recyclability rate (70%) and circular programs lead to net avoided emissions at End-of-Life, resulting in a carbon benefit of -9.59%.

Recommendations for Emission Reduction

Optimize Use Phase: Focus on redesigning for lower energy consumption and educating users on energy-efficient operation.

Decarbonize Supply Chain: Engage suppliers for lower-carbon materials, increase recycled content, and promote renewable energy in upstream manufacturing.

Enhance Manufacturing Efficiency: Increase renewable energy procurement beyond 50% and optimize processes to reduce energy intensity.

Strengthen Circularity: Further increase recyclability and expand take-back programs to maximize material recovery and reuse.