

html

Product Carbon Footprint: ejoguvnmmq

Report by carboncalcpcf.com for yxxxwijvmr

Total Carbon Footprint: 38.67 kg CO2e

Total Footprint

38.67

kg CO2e

Carbon Intensity

38.67

kg CO2e / unit

Top Material Hotspot

Steel Frame

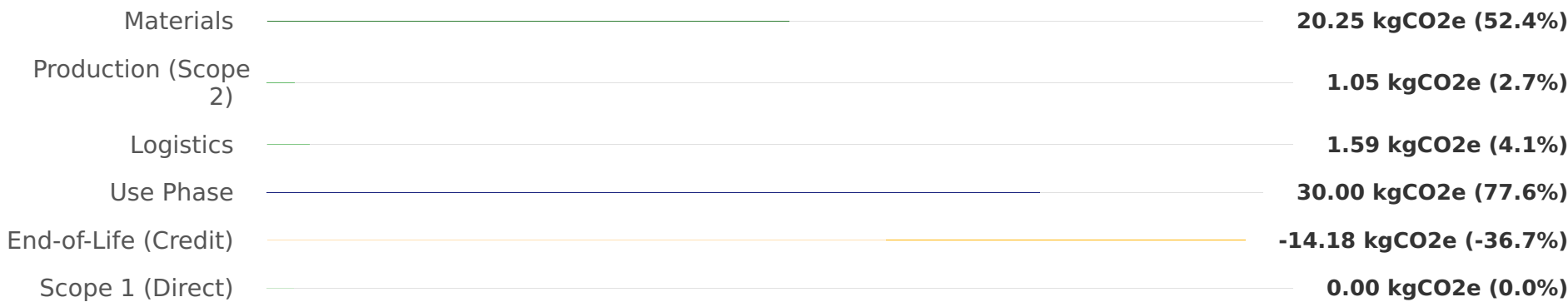
10.0 kg CO2e

Primary Emission Scope

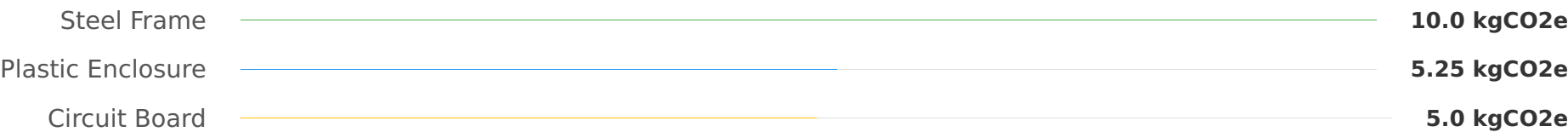
Use Phase

77.6% of total

Lifecycle Stage Breakdown



Material Carbon Impact



Highlights & Key Insights

- The **Product Use Phase** is the most significant contributor to ejoguvnmmq's carbon footprint, accounting for 77.6% of total emissions, primarily due to energy consumption over its 5-year lifespan.
- **Raw Materials** represent the second-largest impact area at 52.4%, with the Steel Frame being the single largest material contributor at 10.0 kg CO₂e.
- Effective **Circular Economy Strategies**, including a 70% recyclability rate, yield a substantial carbon credit of -14.18 kg CO₂e, significantly offsetting other emissions.

Recommendations for Emission Reduction

- **Enhance Energy Efficiency in Use:** Focus on design optimizations, smart features, or promoting efficient usage patterns to reduce the product's energy consumption during its use phase.
- **Optimize Material Sourcing:** Investigate lower-carbon alternative materials, increase recycled content in components, or lightweight the design to reduce raw material impacts, especially for the Steel Frame.
- **Boost Renewable Energy Adoption:** Increase the percentage of renewable energy utilized in the manufacturing process beyond the current 30% to further diminish Scope 2 emissions.
- **Strengthen Circularity:** Expand take-back and recycling programs, exploring remanufacturing or repair services to maximize material recovery and minimize end-of-life impacts.

- **Streamline Logistics:** Implement strategies to optimize transport routes, modes, and vehicle utilization to reduce emissions from both inbound and outbound transportation.