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Product Carbon Footprint Report by carboncalcpcf.com

fewvoenuux

Total PCF for 1.0 unit

38.20 kgCO₂e

Standard: GHG Protocol | Production Country: China | System Boundary: factory_gate

Total Footprint

38.20

kgCO₂e

Carbon Intensity

38.20

kgCO₂e / unit

Top Material Hotspot

Aluminum

7.88 kgCO₂e

Primary Emission Scope

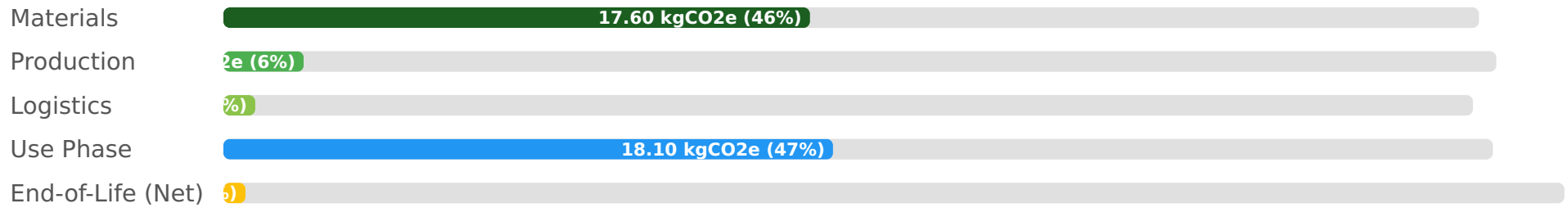
Scope 3

Value Chain

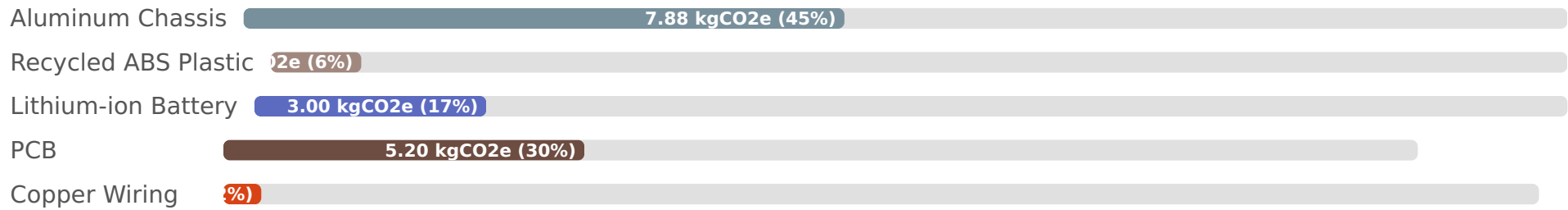
Key Emission Highlights

- ✓ Materials Acquisition & Processing and the Use Phase collectively contribute over 93% of the total Product Carbon Footprint.
- ✓ The Aluminum Chassis is the single largest material hotspot, accounting for nearly 45% of material-related emissions.
- ✓ Purchased electricity for manufacturing (Scope 2) presents a significant opportunity for reduction through increased renewable energy adoption.

Lifecycle Stage Breakdown



Material Carbon Impact Breakdown



Recommendations for Carbon Reduction

1. **Use Phase Optimization:** Focus on improving the energy efficiency of "fewvoenuux" during its operational life through design changes and user education.
2. **Material Decarbonization:** Investigate opportunities for lower-carbon materials, increased recycled content, and engaging with suppliers for EPDs.
3. **Renewable Energy in Production:** Increase the share of renewable energy at manufacturing facilities in China to reduce Scope 2 emissions.
4. **Logistics Optimization:** Optimize transport routes, consolidate shipments, and explore lower-emission transport modes for both upstream and downstream logistics.
5. **Strengthen Circular Programs:** Capitalize on existing take-back programs to maximize material recovery and actively promote them to customers.
6. **Data Collection Enhancement:** Establish systems to collect primary data for key parameters to improve the accuracy and robustness of future PCF analyses.