

# Product Carbon Footprint Dashboard

Product: **pilijykmk**

Total PCF: **21.005 kg CO2e** per unit

Report by [carboncalcpcf.com](https://carboncalcpcf.com) (vjufvmqls)

## TOTAL PRODUCT FOOTPRINT

**21.005**

kg CO2e per unit

## CARBON INTENSITY

**21.005**

kg CO2e / unit (piliykkmk)

## PRIMARY EMISSION SCOPE

**Scope 3**

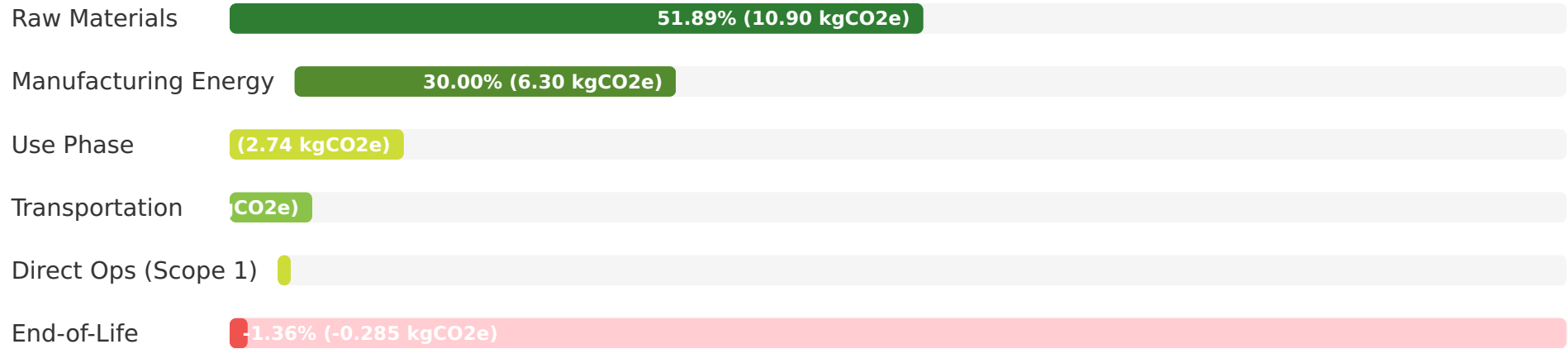
69.76% of total PCF

## TOP LIFECYCLE HOTSPOT

**Materials**

Raw Material Acq. & Pre-proc. (51.89%)

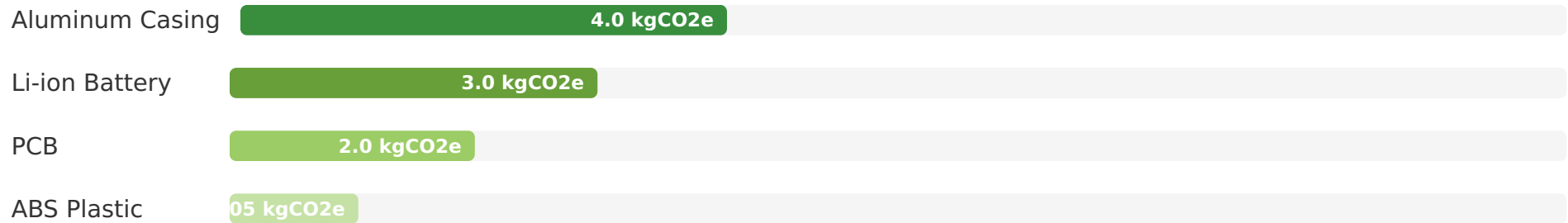
## Lifecycle Stage Breakdown



## GHG Protocol Scope Breakdown



## Top Material Contributors



## Key Highlights & Hotspots

- ✓ **Materials Dominate:** Raw material acquisition and pre-processing account for **51.89%** of the total PCF, with components like Aluminum Casing and Lithium-ion Batteries being significant contributors.
- ✓ **Manufacturing Energy Impact:** Despite 30% renewable energy use, manufacturing energy (Scope 2) in China contributes a substantial **30.00%** due to the regional grid mix.
- ✓ **Use Phase Emissions:** The product's 3-year lifespan and 10 Wh/day energy consumption during use lead to a notable **13.04%** of the total footprint.

## Recommended Action Plan

- ✓ **Sustainable Material Sourcing:** Prioritize lower embodied carbon materials and increase recycled content beyond current levels.
- ✓ **Renewable Energy Transition:** Expand renewable energy sourcing at manufacturing facilities to further reduce Scope 2 emissions.
- ✓ **Product Design for Efficiency:** Optimize product design to significantly lower energy consumption during the use phase.
- ✓ **Enhance Circularity:** Strengthen take-back programs and aim for higher actual recycling rates of components to maximize end-of-life credits.
- ✓ **Logistics Optimization:** Review and optimize transportation modes and routes for upstream and downstream distribution.

