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Product Carbon Footprint: BYD Atto 3

Total PCF (kg CO₂e)

18,828.5

| Key Metrics Overview

18,828.5

Total Footprint (kg CO₂e)

10.76

Carbon Intensity (kg CO₂e/kg)

LFP Battery

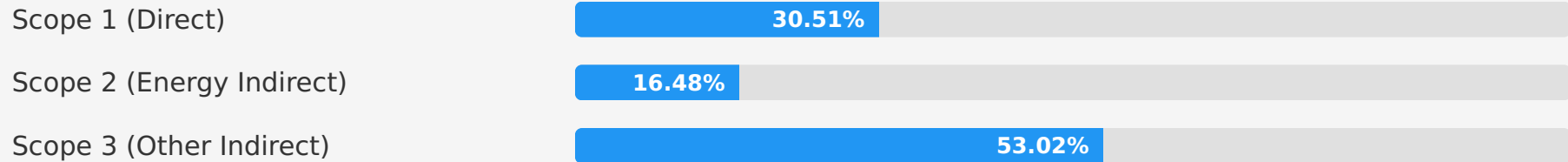
Top Material Hotspot

Scope 3

Primary Emission Scope

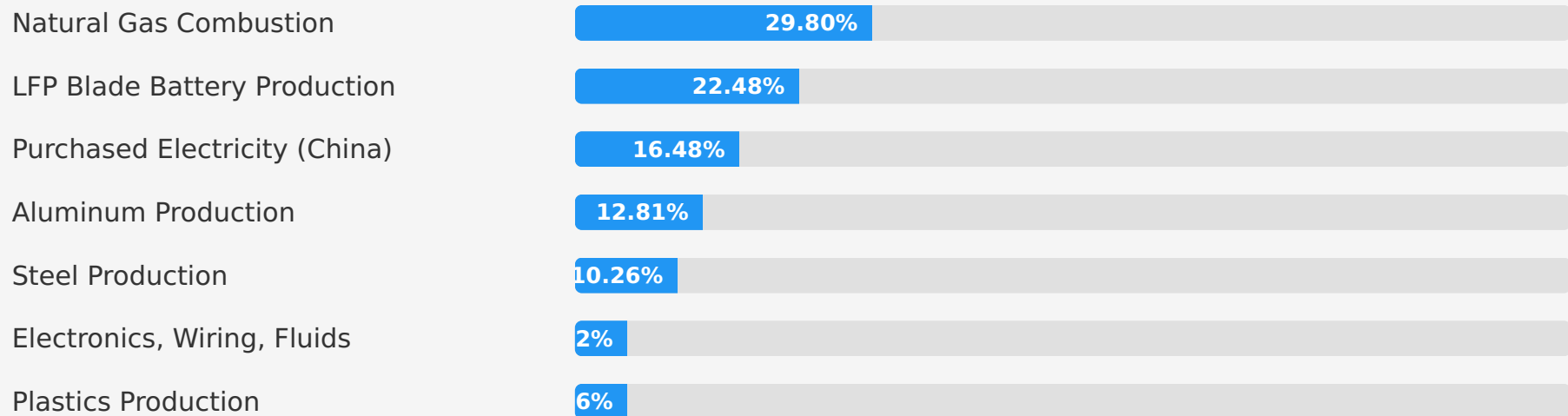
GHG Scope Breakdown

Distribution of emissions across GHG Protocol scopes.



Top Emission Contributors

Leading activities and materials contributing to the PCF.



| Key Highlights

- Upstream (Scope 3) emissions, driven by material production, represent over half of the BYD Atto 3's factory-gate carbon footprint.
- The manufacturing of the LFP Blade Battery and the direct combustion of natural gas for assembly are the largest individual emission hotspots.
- The carbon intensity of China's electricity grid significantly impacts both upstream battery production and direct assembly emissions (Scope 2).

| Recommendations for Reduction

- Engage with BYD and its key suppliers to collect primary data for more precise identification of reduction opportunities across the value chain.
- Prioritize the procurement or investment in renewable electricity for manufacturing and assembly plants in China to significantly reduce Scope 2 emissions.
- Investigate opportunities for increased use of recycled content for materials like aluminum and steel, and implement design-for-circularity principles to reduce upstream material emissions.