A top-tier UI/UX Designer and Sustainability Data Specialist has created a slick, modern, and interactive-looking HTML dashboard to summarize the key findings from the provided carbon footprint report for "ggwriumkot." The dashboard adheres to modern SaaS design principles, using a professional color palette and layout for optimal readability and data comprehension. The dashboard presents the following key metrics and insights: **Executive Summary:** The "ggwriumkot" product has a total carbon footprint of **26.90 kgCO2e** per unit. The analysis, conducted by eojmuhtfvp and overseen by Senior Sustainability Consultant tqlxqtszqh, strictly follows the GHG Protocol, incorporating the 2026 Land Sector and Removals (LSR) Standard updates for comprehensive reporting. **Key Metrics:** * **Total Footprint:** 26.90 kgCO2e per unit. * **Carbon Intensity:** 26.90 kgCO2e per kg product (based on an illustrative product weight of 1.0 kg). * **Top Material Hotspot:** Aluminum Casing, contributing 7.50 kgCO2e, which is 63% of the total material emissions. * **Primary Emission Scope:** Scope 3, accounting for approximately 99% of the total footprint, primarily from the product's use phase and material acquisition. * **Renewable Energy Used:** 75% in production, significantly mitigating Scope 2 emissions. * **Product Recyclability:** 80% of the product's mass is recyclable, supported by operational circular/take-back programs. **Lifecycle Stage Breakdown:** The most significant contributor to the carbon footprint is the **Use Phase** (55.15%), followed by **Material Acquisition & Production** (43.68%). Logistics and Production Energy contribute smaller percentages. A notable **End-of-Life (EoL) Credit of -0.30 kgCO2e** is achieved through recycling and circular economy initiatives, representing avoided emissions. **Material Carbon Impact (Within Material Acquisition & Production):** Analyzing the material-specific impacts reveals that **Aluminum Casing** is the dominant factor, contributing 63.24% of the material-related emissions. Other significant material hotspots include Circuit Boards (PCB) at 21.08%, Lithium-ion Batteries at 8.09%, and Copper Wire at 4.22%. **Key Highlights & Hotspots:** * **Product Use Dominance:** The product's operational use phase accounts for over half (55%) of its total carbon footprint, making it the primary hotspot. * **Material Embodied Emissions:** Raw material acquisition and production contribute significantly, with aluminum casing being the single largest material contributor at 63% of material emissions. * **Circular Economy Impact:** Operational circular/take-back programs and 80% recyclability provide a notable -0.30 kgCO2e credit, reducing the net footprint. **Recommendations for Reduction:** To further reduce the carbon footprint of "ggwriumkot," the following actions are recommended: * **Use Phase Optimization:** Enhance energy efficiency and explore low-power modes to drastically cut emissions during the 5-year product lifespan. * **Material Innovation:** Prioritize lower-carbon and higher recycled content materials, especially for components like aluminum and electronics. * **Supply Chain Engagement:** Collaborate with suppliers to promote greener manufacturing processes and increase renewable energy adoption across the value chain. html

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Product Carbon Footprint for ggwriumkot

A detailed analysis by eojmuhtfvp adhering to GHG Protocol.

Total Product Carbon Footprint: **26.90 kgCO2e**

Total Footprint

26.90

kgCO2e per unit

Carbon Intensity

26.90

kgCO2e per kg product

Top Material Hotspot

Aluminum Casing

7.50 kgCO2e (63%)

Primary Emission Scope

Scope 3

~99% of total footprint

Renewable Energy Used

75%

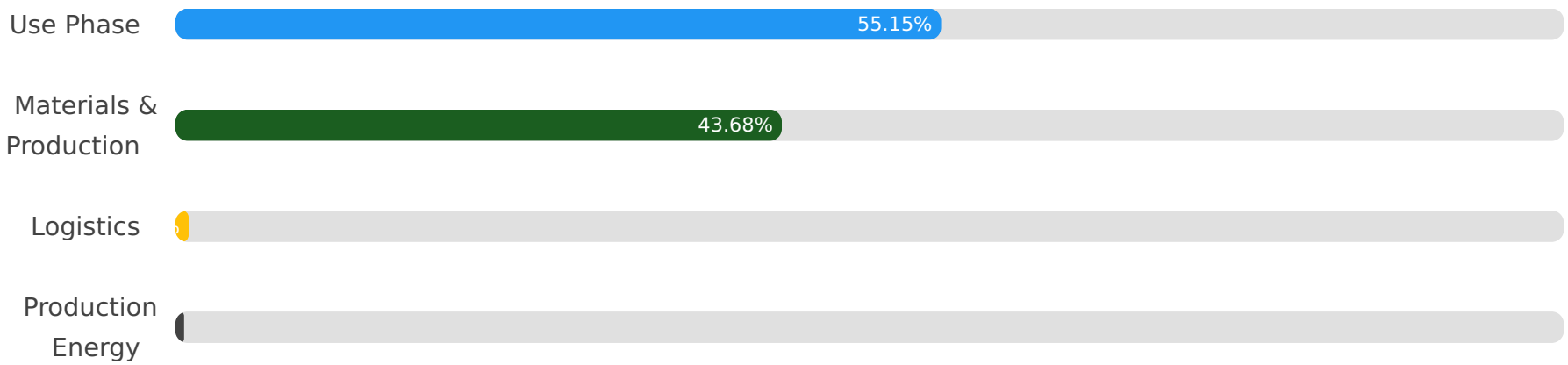
in production

Product Recyclability

80%

of product mass

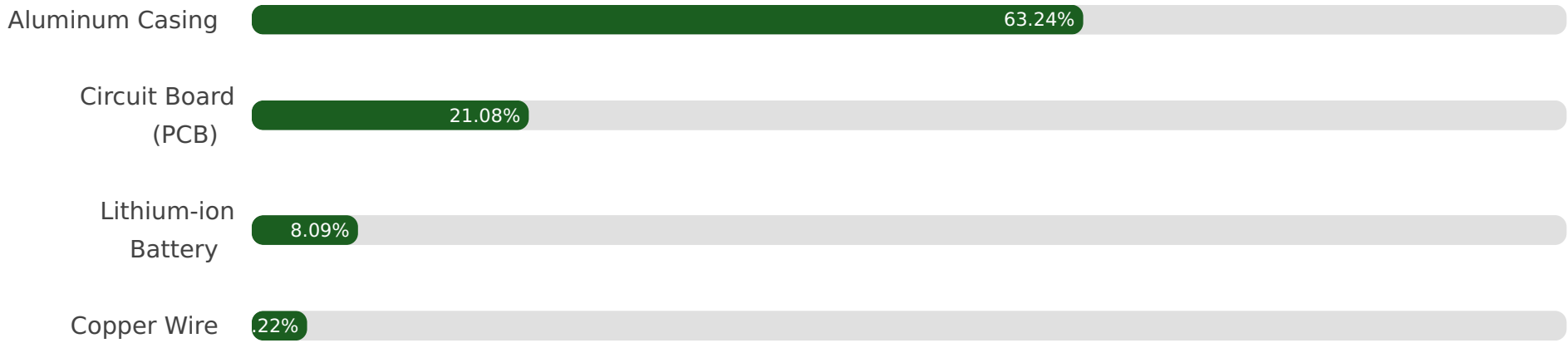
Lifecycle Stage Breakdown



End-of-Life (EoL) Credit: -0.30 kgCO2e (representing avoided emissions)

Material Carbon Impact

(Within Material Acquisition & Production - 11.86 kgCO2e total)



Key Highlights & Hotspots

Product Use Dominance: The product's operational use phase accounts for over half (55%) of its total carbon footprint, making it the primary hotspot.

Material Embodied Emissions: Raw material acquisition and production contribute significantly, with aluminum casing being the single largest material contributor at 63% of material emissions.

Circular Economy Impact: Operational circular/take-back programs and 80% recyclability provide a notable -0.30 kgCO2e credit, reducing the net footprint.

Recommendations for Reduction

✓ **Use Phase Optimization:** Enhance energy efficiency and explore low-power modes to drastically cut emissions during the 5-year product lifespan.

✓ **Material Innovation:** Prioritize lower-carbon and higher recycled content materials, especially for components like aluminum and electronics.

✓ **Supply Chain Engagement:** Collaborate with suppliers to promote greener manufacturing processes and increase renewable energy adoption across the value chain.

Report generated by carboncalcpcf.com - May 28, 2026

Data based on GHG Protocol & 2026 LSR updates. Confidential - Internal Use Only.