The user wants an interactive HTML dashboard, so I need to extract the data and then format it into an HTML structure with inline CSS. I will use a modern design, professional sustainability colors, and CSS for the charts. I will make sure the output is just the `div` container with the styles inside, as requested. **Data Extraction Summary:** * **Product:** `qkxltoxyqm` * **Company:** `ntrthingiu` * **Total PCF:** `23.305 kg CO2e` * **Functional Unit:** `1.0 unit` * **System Boundary:** `factory_gate` (cradle-to-grave for Scope 3) * **Production Country:** `China` * **Standard:** `GHG Protocol` * **Senior Sustainability Consultant:** `mhnosfjxit` **Lifecycle Stage Breakdown:** * **Materials Acquisition & Pre-processing (Scope 3 - Upstream):** `6.75 kg CO2e` (28.96%) * **Production Phase (Scope 2):** `5.58 kg CO2e` (23.94%) * **Transport (Scope 3 - Upstream & Downstream):** `0.342 kg CO2e` (1.47%) * **Use Phase (Scope 3 - Downstream):** `10.5 kg CO2e` (45.05%) * **End-of-Life (EoL) Phase (Scope 3 - Downstream):** `0.133 kg CO2e` (0.57%) **Material Hotspots (from BOM, contributing to Materials Acquisition):** * **Aluminum Casing:** `4.0 kg CO2e` (59.26% of material footprint) * **Plastic Components:** `1.05 kg CO2e` (15.56% of material footprint) * **Circuit Board:** `1.5 kg CO2e` (22.22% of material footprint) * **Copper Wiring:** `0.2 kg CO2e` (2.96% of material footprint) * *Total Material Footprint:* `6.75 kg CO2e` **Key Hotspots Identified:** 1. **Use Phase:** `10.5 kg CO2e` (largest portion) 2. **Materials Acquisition:** `6.75 kg CO2e` 3. **Production Energy:** `5.58 kg CO2e` **Recommendations:** 1. Reduce Use Phase Energy Consumption. 2. Optimize Material Sourcing. 3. Increase Renewable Energy in Production. 4. Enhance Circularity. 5. Supply Chain Engagement. **Dashboard Structure and Content Plan:** 1. **Main Container:** `div` with class `ccpcf-dashboard`. 2. **CSS Styling:** All inline within `

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: qkxltoxyqm (1.0 unit, factory_gate)

23.31 kg CO_2e

Company: ntrthingiu | Consultant: mhnosfjxit | Standard: GHG Protocol

Total Footprint

23.31 kg CO_2e

Carbon Intensity

23.31 kg CO_2e/unit

Top Material Hotspot

Aluminum Casing

(4.0 kg CO_2e)

Primary Emission Scope

Scope 3: Use Phase

(10.5 kg CO_2e)

Lifecycle Stage Breakdown

Materials Acquisition	28.96% (6.75 kg CO_2e)
Production Phase (Scope 2)	23.94% (5.58 kg CO_2e)
Transport (Scope 3)	1.47% (0.34 kg CO_2e)
Use Phase (Scope 3)	45.05% (10.5 kg CO_2e)
End-of-Life (Scope 3)	0.57% (0.13 kg CO_2e)

Material Carbon Impact

Aluminum Casing	59.26% (4.0 kg CO_2e)
Circuit Board	22.22% (1.5 kg CO_2e)
Plastic Components	15.56% (1.05 kg CO_2e)
Copper Wiring	2.96% (0.2 kg CO_2e)

Emissions Hotspots Highlights

- The **Use Phase** is the largest contributor, accounting for 10.5 kg CO_2e, primarily due to the product's energy consumption over its lifespan.
- **Materials Acquisition** is a significant hotspot at 6.75 kg CO_2e, with Aluminum Casing and Circuit Board being key drivers.
- **Production Energy** from the China facility (5.58 kg CO_2e) remains a notable impact, despite 40% renewable energy usage.

How to Reduce Your Footprint

1. **Reduce Use Phase Energy Consumption:** Innovate for improved product energy efficiency throughout its 5-year operational lifespan.
2. **Optimize Material Sourcing:** Explore lower-carbon alternatives for high-impact materials and increase recycled content.
3. **Increase Renewable Energy in Production:** Aim for higher percentages of renewable energy at the China production facility to further reduce Scope 2 emissions.
4. **Enhance Circularity:** Leverage the existing formal take-back program to maximize material recovery and high-quality recycling.
5. **Supply Chain Engagement:** Collaborate with logistics partners to optimize routes and explore lower-emission transport modes.