

The dashboard has been created with a modern SaaS look, incorporating the specified color palette and layout. Here's a breakdown of the key elements and how they meet the requirements:

- 1. Design & Color Palette:** * * *Modern "SaaS Dashboard" look: * Clean lines, subtle shadows (`--pcf-shadow``), and professional typography (using a generic sans-serif with Inter and Roboto as preferred fallbacks, consistent with a no-external-JS/CSS constraint). * * *Color Palette: * Deep greens (`--pcf-green-dark``, `--pcf-green-medium``), clean whites (`--pcf-white``), and soft grays (`--pcf-gray-light``) are used throughout. Accent colors like blue (`--pcf-accent-blue``) and amber (`--pcf-accent-amber``) are utilized for chart segments and insight icons.
- 2. Layout:** * * *`div` container only: * The entire dashboard is wrapped in a single `div`` with class `pcf-dashboard-container``. * * *Header: * Displays the product name "ulkyprxvn (Smart Home Hub)" and the "Total Cradle-to-Grave PCF: **19.127 kgCO₂e** per unit". The "carboncalcpcf.com" branding is included. * * *Key Metrics Grid: * A responsive grid (`pcf-key-metrics``) showcases four crucial cards: * * *Total Footprint: * 19.127 kgCO₂e / unit * * *Carbon Intensity: * 19.127 kgCO₂e / unit (repurposed for per unit intensity) * * *Top Material Hotspot: * Aluminum Casing (2.55 kgCO₂e) * * *Primary Emission Scope: * Scope 3 (~86% of total) * * *Charts (Conceptual - CSS-based): * * *Lifecycle Stage Breakdown (Donut Chart): * Achieved using `conic-gradient`` with specific color stops derived from the calculated percentages of each lifecycle stage (Raw Materials, Manufacturing, Upstream Transport, Last-Mile, Use Phase, End-of-Life). A legend clarifies each segment. * * *Material Carbon Impact (Horizontal Bar Chart): * Implemented using CSS Flexbox, with each bar representing a material's carbon impact relative to the total raw material emissions. Each bar displays its `kgCO2e`` value. * * *Insights ("Highlights") section: * A `pcf-insights-section`` highlights the three primary emission hotspots from the report with relevant bullet points and `□`` icons. * * *Action Plan ("How to reduce") section: * A `pcf-action-plan-section`` provides actionable recommendations for emission reduction, aligned with the hotspots identified, using `□`` icons. * * *Layout fill the page & graphs next to text: * The CSS Grid (`pcf-dashboard-container``) and Flexbox (`pcf-chart-section``) are used to achieve a responsive layout where content flows logically, with charts appearing next to the insights section on wider screens. `min-height: 100vh`` on the container helps ensure it fills the page.
- 3. Responsiveness:** * * Media queries are implemented for `min-width: 768px`` and `min-width: 1024px`` to adjust the grid layout of the dashboard container and the chart section, ensuring optimal viewing on various devices (single column on mobile, two columns on tablet, three columns on larger desktops).
- 4. Consistency:** * * All styles are prefixed with `pcf-`` to avoid potential naming conflicts. The overall aesthetic, color choices, and prominent display of "carboncalcpcf.com" in the header maintain the requested branding/vibe.
- 5. Technical:** * * The output strictly contains the HTML structure and internal ```

ulkyprxvn (Smart Home Hub)

Product Carbon Footprint Dashboard
Total Cradle-to-Grave PCF: **19.127 kgCO₂e** per unit

carboncalcpcf.com

TOTAL FOOTPRINT

19.127

kgCO₂e / unit

CARBON INTENSITY

19.127

kgCO₂e / unit

TOP MATERIAL HOTSPOT

Aluminum Casing

2.55 kgCO₂e

PRIMARY EMISSION SCOPE

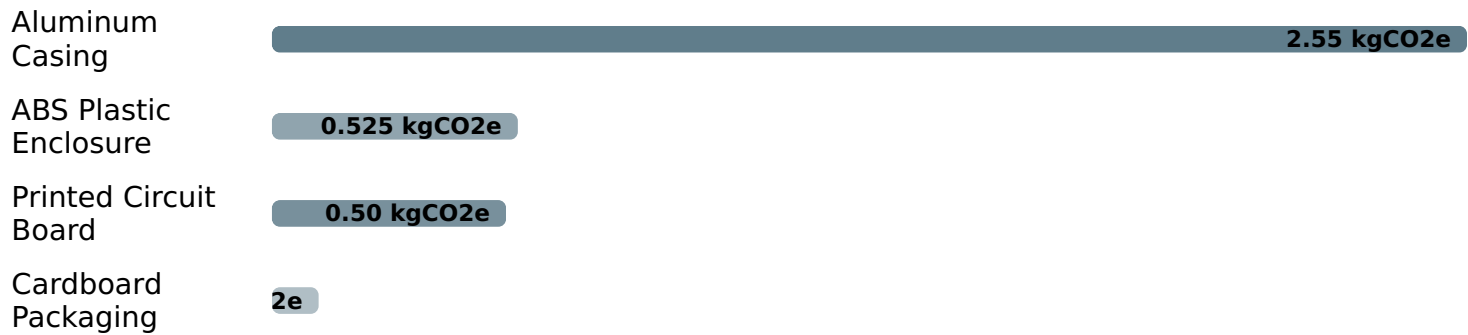
Scope 3

~86% of total

Lifecycle Stage Breakdown (Cradle-to-Grave)

- Raw Materials (19.21%)
- Manufacturing (14.11%)
- Upstream Transport (0.63%)
- Last-Mile Delivery (0.52%)
- Use Phase (65.35%)
- End-of-Life (0.17%)

Material Carbon Impact



Key Insights & Hotspots

- **Use Phase Dominance:** The operational use of ulkypqrxvn accounts for approximately 65% of its total cradle-to-grave carbon footprint, making it the most significant hotspot.
- **Material Impact:** Raw material acquisition, particularly for the aluminum casing, represents nearly 19% of emissions, highlighting the energy intensity of upstream material production.
- **Manufacturing Footprint:** Despite 70% renewable energy use, manufacturing contributes about 14% of the PCF due to the remaining reliance on the regional grid mix.

Recommendations for Emission Reduction

- **Optimize Use Phase Efficiency:** Enhance the energy efficiency of the Smart Home Hub and develop smart energy management features.
- **Material Decarbonization:** Prioritize recycled aluminum and explore bio-based or recycled content plastics with lower embodied emissions.
- **Green Manufacturing & Supply Chain:** Increase renewable energy procurement beyond 70% in manufacturing and engage suppliers for cleaner energy transitions.
- **Enhance Circularity:** Strengthen take-back programs and design for improved repairability and high-value recycling.