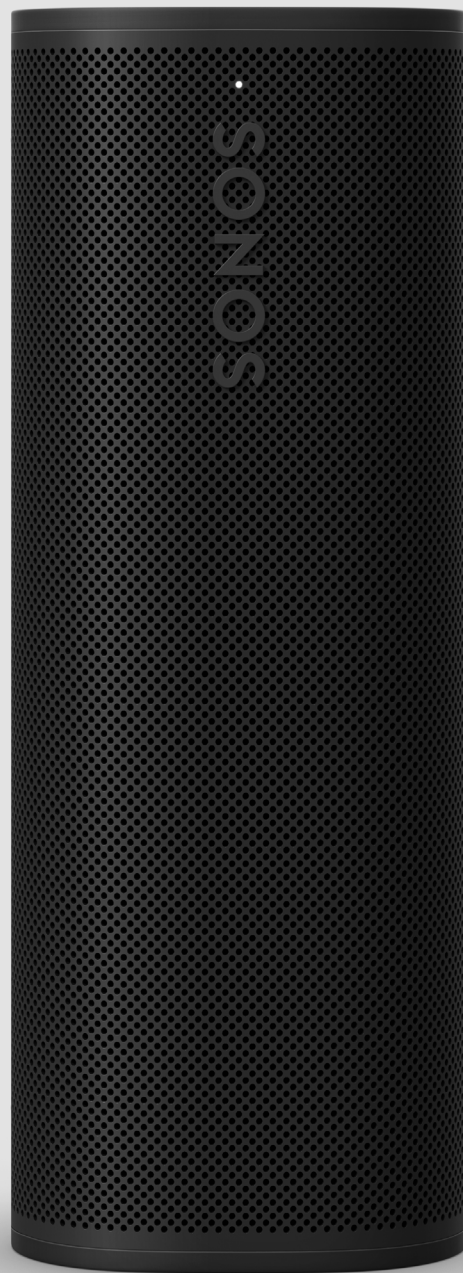# Roam 2

SONOS

Environmental
Report

Designing for Sustainability

At Sonos, we know the positive impact that listening has on people's lives and we're committed to amplifying it. Taking a forward-thinking approach to design, we strive to create responsible products and joyful experiences for our listeners.

Our sustainability efforts are inspired by our Climate Action Plan. Beyond reducing our emissions, we are devoted to minimizing the environmental impact of our products across their full life cycles, from raw materials to end of life. We evaluate our hardware and software across the following areas:
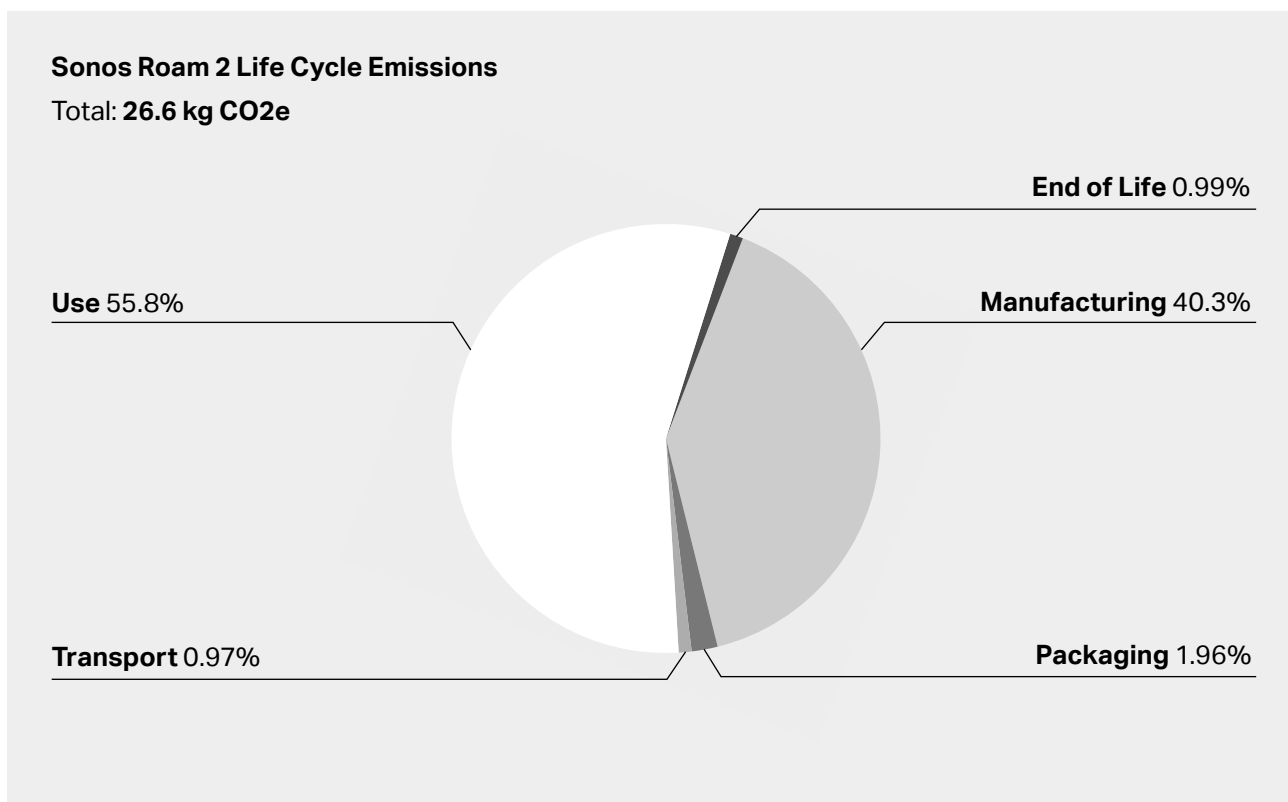
Product Longevity I Responsible Materials I Packaging I Energy Efficiency

This environmental report provides the sustainability performance of Roam 2, a generational update to our Roam ultraportable speaker.

Measuring our Impact

Our report is based on a life cycle assessment (LCA), a scientific method used to measure environmental impacts across the full product life cycle (manufacturing, packaging, transport, use, and end of life). This detailed analysis helps us better understand our impacts and craft meaningful solutions. The Roam 2 life cycle assessment was verified by a third party to ensure that our results are transparent and valid.[1]

Our LCA accounts for a wide range of environmental impacts, from resource availability to human health.[2] We also pay close attention to the amount of greenhouse gas emissions associated with each stage of Roam 2's life cycle because of our long-term carbon reduction goals.

Sonos Roam 2 Life Cycle Emissions
Total: **26.6 kg CO2e**

End of Life 0.99%

Use 55.8%

Manufacturing 40.3%

Transport 0.97%

Packaging 1.96%

Product Longevity

To increase product longevity and reduce emissions across our global value chain, we're working to make our products easier to disassemble for more efficient refurbishment and end of life management. To purchase a refurbished product, please visit our Sonos Certified Refurbished page.

Highlights
- Roam 2 is compatible with Roam charging accessories, extending their useful life and reducing waste

Responsible Materials

We choose materials for our products with human and environmental health top of mind. As a result, our products meet or exceed all applicable global regulations on restricted, banned, or reportable substances and chemicals including, but not limited to: EU and China RoHS, EU REACH, EU Packaging and Packaging Waste Directive (PPWD), EU Battery Directive.

We developed our Halogen Free Initiative to hold our devices to a higher standard. Our focus is identifying safer alternatives to halogenated substances in printed circuit board (PCB) laminates, a component where halogens are traditionally prevalent.

Highlights
- Roam 2 uses halogen-free PCBs[3]

Packaging

We design, develop, and deliver premium, circular packaging that provides excellent protection with minimal environmental impact. Our sustainable packaging efforts have two main goals:
- Minimize single-use plastics and incorporate certified post-consumer recycled (PCR) plastics
- Increase the use of sustainably sourced papers, defined as those made from either PCR paper content, Forest Stewardship Council® (FSC®) certified mix of virgin and PCR fibers, or recyclable plant-based fibers

Highlights
- Primary packaging is 99% sustainably sourced with zero virgin plastic and widely accepted through curbside recycling
- Product bag uses Global Recycled Standard certified PCR PET
- Retail Box and document envelope are FSC® certified
- Polypropylene lamination was removed from the Quick Start Guide
- Optimized packaging design and palletization enables us to ship more products at once, lowering carbon emissions from our distribution

Energy Efficiency

Energy use is the most significant contributor to Sonos' carbon footprint, so we aim to improve hardware and software components with power-saving features. We continually update our software with the ambition to deliver additional energy-saving advancements over time. Our goal is to use less energy without compromising the listening experience.

Highlights

- Roam 2's rechargeable battery offers up to 10 hours of continuous playback, maintaining parity with Roam[4]

- Roam 2 uses a new USB-C to C cable, per USB-C standard, to deliver a more efficient charging experience

Learn More

How to Recycle

We provide customers with a variety of options for recycling or upgrading their retired products, including helping locate nearby e-waste facilities and paying for eligible products to be shipped back to us. For more information about how to recycle Sonos products, please visit our website.

Our Commitment to Sustainability

You can learn more about our Environmental, Social, and Governance initiatives in our Listen Better Report, where we share annual progress on our sustainability efforts, supply chain responsibility, philanthropic giving, and diversity, equity, and inclusion.

Endnotes

1. Product life cycle assessments at Sonos are conducted according to ISO 14040/14044 and account for the manufacture, transport, use, and end of life of the product, packaging, and consumables used in production.

2. Impact categories are assessed based on an assumed product lifespan of 3 years using the following methods: IPCC100a (AR6) for Climate Change (kg CO_2 eq.); $CED_{v1.02}$ for Cumulative Energy Demand (MJ); $AWARE_{v1.02}$ for Water Use (m3); ReCiPe 2016 Endpoint (H) for Resource Availability ($), Ecosystem (Species*year), Human Health (disability-adjusted life year).

3. Roam 2's printed circuit boards meet the goals of our Halogen Free Initiative, which restricts the use of halogenated substances to a minimum and ensures validity through third-party verification.

4. Playback power varies depending on volume, connection, voice assistant activity, and other factors.