Product Environmental Report

motorola signature

Product Launch Date

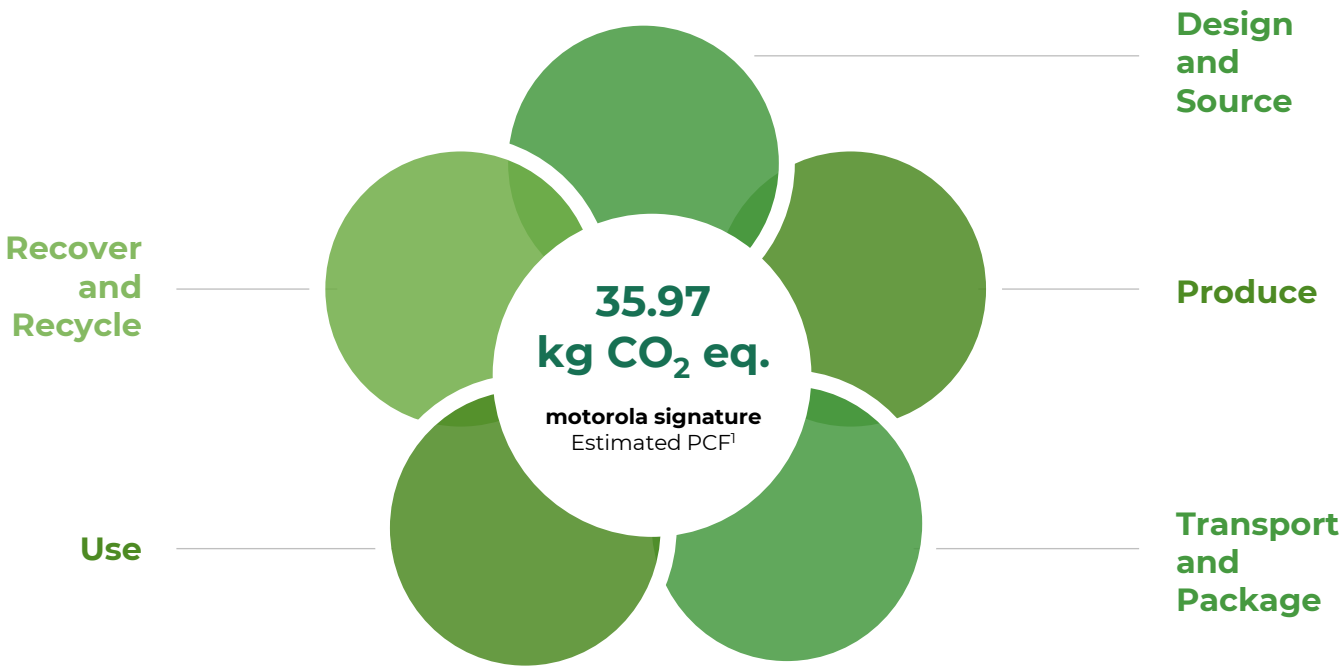
January 6, 2026

At Motorola, we are working to provide smarter technology that builds a brighter future, while achieving sustainability goals as part of Lenovo Group. From our packaging and product design with sustainability in mind, to our carbon emissions reduction efforts, we're committed to making progress on our environmental goals and ensuring a positive social impact in the communities where we do business.

This report contains data up to the product launch date.

Acting Across the Product Journey

We are committed to taking responsibility for our products throughout their entire life cycles. We actively manage product carbon footprint (PCF), from sourcing of materials to manufacturing, transportation, usage, and end-of-life stages.



For example, we assessed the estimated total PCF of **motorola signature**'s entire life cycle, including manufacturing, transport, use and end-of-life (EoL) phases, using a life cycle assessment (LCA) methodology[2].

The estimated total PCF is 35.97 kg CO_2 eq. The distribution of the carbon footprint across each phase is accounted for as follows (rounded): Manufacturing 93%. Transport 6%. Use 2%. EoL -1%.

The PCF calculation is performed on 16GB RAM+512GB storage configuration.
The PCF assessment is limited to the device only and excludes in-box accessories and packaging.
The manufacturing was modeled using China power grid mix for manufacturing of the electrical components for the Manufacturing of the PCBAs and the housing items. The use phase was assumed to take place in France.

Design and Source

We design products with sustainability and innovation at the forefront, incorporating recycled, renewable, biobased and responsibly sourced materials. Through our Full Material Disclosure (FMD) Platform, integrated in the supply chain, we proactively manage restricted chemical substances (to meet internal environmental policies and national laws) and ensure components are fully qualified to our strict environmental standards before purchase.

Harmonizing sleek design with responsible material choices, over 14% of the plastics and 65% of the metals used in **motorola signature** are recycled[3].

Recycled Aluminum[3]

Aluminum used in the middle frame is 100% recycled.

Recycled Plastic[3]

- **Front camera bracket**: Contains 65% post-consumer recycled (PCR) plastics and 5% ocean-bound plastics (OBP)
- **Top bracket**: Contains 35% PCR plastics
- **Bottom bracket**: Contains 35% PCR plastics and 5% Lenovo closed-loop recycled plastics
- **Upper speaker bracket**: Contains 65% PCR plastics and 20% OBP

Chemical and Substance Management

As part of our global stewardship, we apply EU RoHS/REACH chemical restriction policies for all products, irrespective of where we sell them globally.

In addition to adhering to global regulatory requirements, we have voluntarily phased out the following hazardous substances across all products[4].

- Polyvinylchloride (PVC)
- Brominated Flame Retardants (BFRs)
- Chlorinated Flame Retardants (CFRs)

Produce

We are committed to responsible manufacturing and supply chain practices, focusing on energy efficiency, carbon reduction, and strong environmental standards.

Manufacturing

Our manufacturing sites continuously implement initiatives to improve operational energy efficiency, reduce carbon emissions, and support climate change mitigation, such as integrating solar power stations and installing energy-efficient LED lighting.

- Our Wuhan manufacturing facility has been utilizing solar power stations since 2019, which may achieve an estimated annual reduction of 970 tons in carbon emissions, based on its 2024 electricity consumption data[5].

Supply Chain

As a Lenovo subsidiary, Motorola shares the same commitment and policy to sound Environmental, Social and Governance (ESG) management across our end-to-end supply chain process. Lenovo's supply base is comprised of the following categories: internal manufacturing centers, production procurement, original design manufacturers (ODM), and general procurement.

Lenovo manages suppliers' environmental performance through requirements in the Supplier Code of Conduct, Responsible Business Alliance (RBA) assessments, CDP Supply Chain Program, and other programs that support its material environmental topics – specifically climate change, water, and waste.

Package and Transport

Our packaging strategy focuses on eliminating plastics, utilizing recyclable materials, and optimizing compact designs to minimize resource use and reduce environmental impact during transportation.

For transportation, we are planning to adopt low-carbon solutions – such as sea freight, where feasible - which enable lower emissions compared to road and air freight.

Motorola has set a goal to reduce single-use plastics by 50% across all smartphone product packaging by FY 2025/26[6]. In line with this commitment, **motorola signature** packaging is free of plastics[7].

Additionally, the packaging is designed with a minimum of 70% recycled materials by weight.

Plastic-free[7]

Soy ink printing

70%
Recycled Content by weight

Packaging recyclable[8]

Use

We prioritize energy efficiency in our products to help reduce greenhouse gas emissions. Additionally, we focus on improving product durability and extending lifespans to enhance long-term value for our customers.

Our goal is to achieve 30% improvement in smartphone product energy efficiency by FY 2029/30[9].

Built for endurance inside and out, **motorola signature** combines exceptional battery performance with long-term software support.

Silicon-Carbon Battery

The massive 5200mAh battery keeps working and playing all day today and into tomorrow on just a single charge.[10, 11] Thanks to revolutionary silicon-carbon technology, you get long-lasting battery life and a thin design—without compromise. And with up to 1,200 life cycles, it's built to last.[12]

7 Years

The **motorola signature** will get up to 7 years of regular software updates.[13]

The all-new **motorola signature** features a redesigned frame and camera housing crafted from aircraft-grade aluminum. Plus, it meets military standards for durability, offering protection against extreme temperatures and providing superior drop resistance.[15] No matter where the day takes you, enjoy worry-free IP68 and IP69-rated underwater protection,[16] and get up to 4x better scratch resistance with Corning® Gorilla® Glass Victus® 2.[14]

4x Better display scratch resistance[14]	**95% Humidity** protection[15]	**1.2 Meters** drop resistance[15]
-20°C ~ 60°C operates for up to 4 hours in extreme temperatures[15]	**4500 Meters** stand up to 1 hour of playtime in high-altitude adventures[15]	**Dust, Dirt, Sand, High-Pressure Water Protection[16]**

Recover and Recycle with Motorola

We offer trade-in programs in selected markets, including the US, India and Brazil. This enables customers to exchange their old devices for credits toward new Motorola purchases, after our assessment and inspection of the old devices.

We ensure repair options are available to customers and have established Moto Care, which provides comprehensive smartphone warranty plans customized to meet customer needs. The repair submission process and availability of Moto Care may vary by region. Please visit Motorola Support and select your location for product support information, including repair options and Moto Care information.

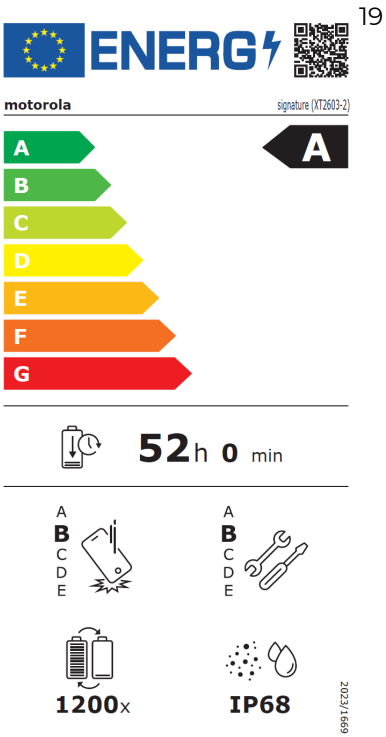
In the US, we have also established partnerships with iFixit and MobileSentrix to offer self-repair options for technically inclined users, and in EU we have partnership with Replace Base.

Industry Rating and Label

Eco Rating Result[17]

Device	**motorola signature**
Model Number	XT2603-2
RAM + Storage	16G + 512G
Eco Rating Overall Result	83
Material Efficiency Results	
Durability	83
Repairability	68
Recyclability	57
Use of Hazardous & Restricted Substances	60
Recycled Material Content	42
Waste Packaging and Accessories	70
Additional Results	
Climate Efficiency	70
Resource Efficiency	80

Product EU Energy Label[18]



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Endnotes

[1] The product PCF is calculated using quantitative estimates and modelling assumptions. For detailed PCF report of motorola signature, visit https://en-us.support.motorola.com/app/answers/detail/a_id/179267.

[2] The product lifecycle analysis (LCA) of motorola signature is performed in accordance with the ISO 14040 and ISO 14044 standards. The estimated carbon footprint is an approximate measure of the green-house gas emissions produced over the lifecycle of the product and is reported as the global warming potential for 100-year time horizon(GWP-100) in units of CO2 equivalents (CO2e). The product carbon footprint (PCF) is calculated using GaBi© Software version 10 including the most current 2022 updates for modelling each of the product type lifecycle steps.

[3] The content of all recycled materials have been independently verified by third parties in accordance with ISO 14021, and was measured on a weight basis.

[4] Controlled at 1,000 parts per million (ppm).

[5] Based on Wuhan manufacturing site's 2024 electricity consumption data. The carbon emission factor used for the reduction calculation is based on the average carbon dioxide emission factor for electricity in Hubei Province as published in the "2022 Carbon Dioxide Emission Factors for Electricity" jointly released by China's Ministry of Ecology and Environment and the National Bureau of Statistics in December 2024.

[6] Performance relative to FY 2020/21. This excludes Lenovo smartphone packaging but includes RAZR smartphone packaging starting in FY 2023/24.

[7] Plastic was not detected in the packaging by third-party lab under test methods Fourier Transform Infrared Spectrometer (FTIR), Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS) and Energy dispersive X-ray fluorescence spectrometer (EDX). Paint, inks and adhesives are excluded from the calculations of plastic content in accordance with EU Directive 2019/904.

[8] Recycling programs may not be available to consumers in all markets.

[9] On average for comparable products relative to FY 2020/21.

[10] All battery life claims are approximate and based on the median user tested across a mixed use profile (which includes both usage and standby time) under optimal network conditions. Actual battery performance will vary and depends on many factors including signal strength, network and device settings, temperature, battery condition, and usage patterns.

[11] The typical capacity is 5200mAh. Typical value is the estimated average capacity of a batch of batteries based on internal testing, representing the expected performance under normal conditions. Rated capacity is 5100mAh. Rated capacity is the minimum guaranteed capacity of a battery under controlled conditions.

[12] Based on internal testing simulating daily user charging habits in a controlled laboratory environment; actual battery lifespan will vary depending on personal usage patterns, charging methods, temperature, and other factors; battery performance may diminish over time.

Endnotes

[13] Includes 7 OS updates and up to 7 years of security updates starting from the global launch date. May vary by market, network provider and/or model. See https://support.motorola.com/app/software-upgrade for details.

[14] Performance of Gorilla® Glass Victus® 2 is based on lab tests under controlled conditions. Actual performance may vary based on specific use, environmental conditions, and other factors. While Gorilla® Glass Victus® 2 is designed to enhance durability and provide improved resistance to drops and scratches compared to competitive lithium aluminosilicate glass, it is not indestructible and may still suffer damage under certain conditions. Users should exercise caution and avoid subjecting their devices to unnecessary risk.

[15] The U.S. Department of Defense's MIL-SPEC standards establish methodologies for testing products against environmental stresses under controlled laboratory conditions. Motorola tests devices against hazardous physical and environmental conditions under select categories and procedures of the MIL-STD-810H standard to determine durability. Such testing is not a guarantee of future performance under these test conditions. The motorola signature was tested against 16 categories and 14 MIL-STD-810H procedures to prove its toughness. Abuse, like that contained in MIL-STD 810H testing, is not covered under Motorola's standard warranty.

[16] Tested under controlled laboratory conditions, the phone is water, splash, and dust resistant to ratings of IP68 and IP69 (IEC 60529). The phone can be submerged up to 1.5 meters in still, fresh water for up to 30 minutes, and is protected against powerful, high-temperature water jets for up to 30 seconds. Exposure to conditions beyond these ratings is not covered by warranty. Resistance will decrease as a result of normal wear. Not designed to work while submerged underwater. Do not expose to liquids other than fresh water. Do not attempt to charge a wet phone. Designed to provide protection against the ingress of solid foreign objects of any size. Not waterproof.

[17] Result applicable to sales model XT2603-2. The Eco Rating scores the environmental performance of mobile phones based on an objective assessment of both life cycle and circular economy indicators. The highest possible Eco Rating score is 100 for maximum environmental performance. The closer the score is to 100, the better the environmental performance of the device. In addition, the Eco Rating provides guidance in five key areas: durability, repairability, recyclability, climate efficiency and resource efficiency. For more about Eco Rating and devices' Eco Rating scores, visit https://www.ecoratingdevices.com.

[18] Results shown on the energy label apply to sales model XT2603-2 and are intended for EU customers only. Energy labelling requirements came into effect to smartphones and tablets put on the EU market from 20 June 2025 onwards. Smartphones and tablets should display information on their energy efficiency class, battery endurance per cycle and in cycles, repeated free fall reliability class, repairability class, and ingress protection rating. For more detailed information on the Energy Label, visit https://energy-efficient-products.ec.europa.eu/ecodesign-and-energy-label_en.

[19] Source: European Product Registry for Energy Labelling (EPREL), European Commission. Licensed under Creative Commons Attribution 4.0 International (CC BY 4.0). No changes were made to the image. License: https://creativecommons.org/licenses/by/4.0/.