



Apple Watch Ultra 3

Product Environmental Report

Date introduced
September 9, 2025



40% recycled content
in Apple Watch Ultra 3¹

100% of manufacturing electricity
is sourced from renewable energy²

3D printed titanium case
uses 50% less raw material
than its predecessor³

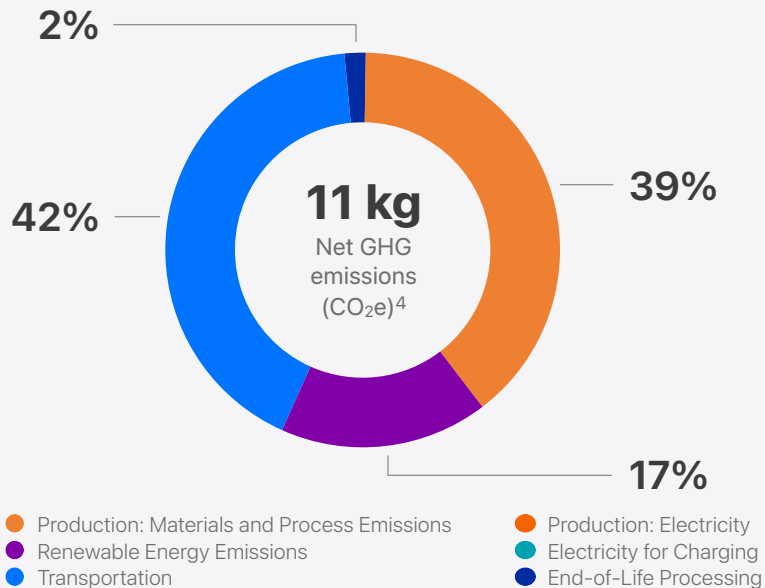
This report includes data current as of product launch. Product evaluations are based on U.S. configuration of Apple Watch Ultra 3 paired with Titanium Milanese Loop. Product carbon footprint calculations include in-box accessories as well as packaging.

Product Carbon and Material Footprint

We're focused on decarbonizing the three largest sources of emissions—materials, electricity, and transportation—across our value chain. We're making progress by expanding our suppliers' sourcing of renewable energy—100 percent of manufacturing electricity for Apple Watch Ultra 3 was sourced from renewable energy projects.² We're also matching 100 percent of expected customer product use with low-carbon electricity. We prioritize the use of recycled, renewable, and low-carbon materials while focusing on the energy efficiency of our software and hardware.

We've prioritized the responsible selection and sourcing of materials and components that make up a large part of our product carbon footprint. We work to recover as much as possible of our own scrap at high purity that meets our internal standards. Since recycled material typically emits less carbon than newly mined materials over its lifetime, we look to postindustrial and postconsumer sources for waste streams that can be recovered and used in new products.

Apple Watch Ultra 3 paired with Titanium Milanese Loop



Apple Watch Ultra 3 contains 40% recycled content,¹ including:

- 100%** recycled **cobalt** in the battery
- 100%** recycled **copper** in the charging coil and multiple printed circuit boards
- 100%** recycled **gold** plating and **tin** solder in all Apple-designed printed circuit boards
- 100%** recycled **gold** plating in all connectors
- 95%** recycled **lithium** in the battery
- 100%** recycled **rare earth elements** in all magnets
- 80%** recycled **steel** in the speaker and Taptic Engine
- 100%** recycled **titanium** in the case
- 100%** recycled **tungsten** in the Taptic Engine

Read more at apple.com/2030.

Product Insights

Water



Water is a local resource. For this reason, our water strategy is respectful of local conditions where we and our suppliers operate. We collect and analyze data and site-level feedback to make sure we understand our water impacts.

Our Supplier Clean Water program prioritizes high water users in high water stress locations and drives participants to an average 50 percent water reuse rate by 2030. [Learn more >](#)

Package and Ship

The packaging is 100 percent fiber-based and uses only recycled or responsibly sourced fibers.⁵

100% Fiber-based packaging⁵



Safer Cleaners

All final assembly supplier sites are required to use safer cleaners and degreasers in their manufacturing processes, as determined by methodologies like ChemFORWARD, US EPA Safer Choice, or GreenScreen®.⁷



Learn more about the requirements in our [Regulated Substances Specification](#).

Energy efficiency

Apple Watch Ultra 3 meets California's stringent requirements for energy efficiency.⁸



Longevity

Apple Watch Ultra 3 is made with durable materials, has a water resistance rating of 100 meters under ISO22810:2010,⁹ is tested to the relevant aspects of MIL-STD 810H,¹⁰ and is rated IP68 dust resistant.⁹



We are continuously striving to increase product longevity through new design and manufacturing technologies, ongoing software support, and expanded access to repair services. [See repair options >](#)

Smarter Chemistry



All of the materials used in Apple products, accessories, and packaging are covered by the requirements of our [Regulated Substances Specification](#), which was one of the first in the industry to restrict the use of key substances of concern. Apple continues to stand out from our industry peers through other substance restrictions and initiatives:

- Our Full Material Disclosure (FMD) program, which allows us to collect material and chemical data deep into our supply chain to support Apple initiatives and compliance
- Routine and robust toxicological assessments of all materials in prolonged skin contact to help minimize risk to customers under normal use conditions
- NGO partnerships to advance safer alternatives, including the identification of substitutes and improved access to chemical hazard data

To learn more, read [Protocol for Prioritizing Chemicals of Concern in the Electronics Industry](#) and [Integrating Toxicological Assessments in Material Selection for Apple Products](#).

Zero Waste to Landfill

No established final assembly supplier sites generate any waste sent to landfill.⁶



People and Environment in Our Supply Chain

We require our suppliers to provide safe and healthy workplaces where people are treated with dignity and respect, and to reduce their environmental impact. From the strong foundation set by our Supplier Code of Conduct, we go further—from helping suppliers transition to clean electricity, to providing educational opportunities for their employees, to supporting final assembly suppliers in reducing waste.



For more information, see apple.com/supplier-responsibility.

Definitions

Carbon footprint: Estimated emissions are calculated in accordance with guidelines and requirements as specified by ISO 14040, ISO 14044, and ISO 14067. There is inherent uncertainty in modeling carbon emissions due primarily to data limitations. For the top component contributors to Apple’s carbon emissions, Apple addresses this uncertainty by developing detailed process-based environmental models with Apple-specific parameters. For the remaining elements of Apple’s carbon footprint, we rely on industry average data and assumptions. We calculate carbon emissions using the 100-year time horizon global warming potentials (GWP100) from the IPCC Sixth Assessment Report (AR6), including biogenic carbon. Our carbon footprint calculation includes emissions for the following life cycle phases in CO₂ equivalency (CO₂e):

- **Production:** Includes the extraction, processing, and transportation of raw materials, as well as the manufacture, transport, and assembly of all parts and product packaging.
- **Transport:** Includes ground, air, and sea transportation of the finished product and its associated packaging from manufacturing site directly to customers or regional distribution hubs. Regional transport is modeled using average distances.
- **Use:** Apple assumes three years of use time for iPhone, Watch, and AirPods, and four years of use time for iPad, Mac, and other devices including Vision Pro and AppleTV. The total energy use over that period is based on use patterns of historically similar products calculated using data from a variety of sources including, but not limited to, field telemetry from users who opt-in to sharing device analytics and modeling battery drain from activities such as movie and music playback. Geographic differences in power grid mix is accounted for at a regional level. Measurement practices follow Apple’s privacy practices and policies, which can be found on Apple’s privacy website.
- **End-of-life processing:** Includes transportation from collection hubs to recycling centers and the energy used in mechanical separation and shredding of parts.

For more information on our product carbon footprint methodology, visit apple.com/environment/answers.

Low-carbon electricity: Refers to both renewable electricity as well as other fossil-free projects that Apple considers “low-carbon” but not “renewable,” like nuclear and large-impact hydroelectricity projects, which may be included as a result of low-carbon electricity provided by the grid. Apple accounts for the carbon impact of building and operating these projects, and so considers them to be low-carbon but not zero-carbon.

Low-carbon materials: Refers to materials created using production techniques with reduced carbon impact, such as Elysis (a patented technology that eliminates direct greenhouse gas emissions from the traditional aluminum smelting process) or aluminum smelted using hydroelectricity instead of coal.

Paper: Our definition of paper is adapted from ISO 4046 to cover materials in the form of a coherent sheet or web made by deposition of fibers from a fluid suspension onto a suitable forming device, with or without the addition of other substances.

Recycled materials: Recycling makes better use of finite resources by sourcing from recovered rather than mined or primary materials. The recycled content of materials used in our products has been verified by an independent third party to a recycled content standard that conforms to ISO 14021 definitions.

Renewable materials: We define bio-materials as those that can be regenerated in a human lifespan, like wood fibers or sugarcane. Bio-materials can help us use fewer finite resources. But even though bio-materials have the ability to regrow, they are not always managed responsibly. Renewable materials are a type of bio-material managed in a way that enables continuous production without depleting the earth’s resources. That’s why we focus on sources that are certified for their responsible management practices.

Supplier Clean Energy Program: Since the electricity used to make our products is the largest contributor to our overall carbon footprint, we’re helping our suppliers decarbonize their Apple production, including by transitioning electricity use to 100 percent renewable sources.

Carbon Footprint

Greenhouse gas emissions were calculated using a life cycle assessment (LCA) methodology in accordance with ISO 14040, ISO 14044, and ISO 14067 standards. The LCA boundary for this product includes the physical product and all of its components and packaging, as well as all in-box accessories.

We've calculated the product carbon footprint for the following configurations.

Configuration	Greenhouse gas emissions
Apple Watch Ultra 3 paired with Titanium Milanese Loop	11 kg CO ₂ e

We model different configurations of our products to show the potential range of carbon emissions. There is inherent uncertainty in modeling carbon emissions due primarily to data limitations. For the top component contributors to Apple's carbon emissions, Apple addresses this uncertainty by developing detailed process-based environmental models with Apple-specific parameters. For the remaining elements of Apple's carbon footprint, we rely on industry-average data and assumptions.

For more information on our product carbon footprint methodology, visit apple.com/environment/answers.

Recover

Apple Trade In offers customers a seamless way to return their old devices and accessories to Apple. Eligible devices can be traded in for credit or an Apple Store Gift Card, while accessories and other devices can be recycled for free.¹¹ We also offer and participate in product take-back and recycling collection programs for 99 percent of the countries where we sell products—and we hold our recyclers to high standards. Learn more at apple.com/recycle.

Endnotes

- 1 Product recycled or renewable content is the mass of certified recycled material relative to the overall mass of the device, not including packaging or in-box accessories.
- 2 Our manufacturing electricity is sourced from clean electricity, including a mix of supplier and Apple clean energy projects.
- 3 We compared the titanium required to make the case of Apple Watch Ultra 3 to Apple Watch Ultra 2.
- 4 Greenhouse gas emissions were calculated using a life cycle assessment methodology in accordance with ISO 14040, 14044, and 14067 standards. The life cycle assessment boundary for this product includes the physical product and all of its components and packaging, as well as all in-box accessories.
- 5 Breakdown of U.S. retail packaging by weight. Adhesives, inks, and coatings are excluded from our calculations of plastic content and packaging weight. Fiber sourcing requirements are defined in Apple's [Responsible Fiber Specification](#). We consider wood fibers to include bamboo.
- 6 All established final assembly supplier sites—those that have been Apple suppliers for more than one year—for Apple Watch Ultra 3 are third-party verified as Zero Waste by UL LLC (UL 2799 Standard). UL requires at least 90 percent diversion through methods other than waste to energy to achieve Zero Waste to Landfill (Silver 90–94 percent, Gold 95–99 percent, and Platinum 100 percent) designations.
- 7 Chemicals that meet ChemFORWARD Hazard band C or better, except for x/c-CMR(2), or equivalent results from other methodologies like GreenScreen or U.S. EPA Safer Choice are considered safer and preferred for use. ChemFORWARD, GreenScreen®, and Safer Choice are comprehensive hazard assessment tools that evaluate substances against multiple human health, environmental, and physical endpoints.
- 8 Apple Watch Ultra 3 meets California Energy Commission's Energy Efficiency Standards for Small Battery Charger Systems as outlined in the California Code of Regulations. Please note that ENERGY STAR does not certify devices like Apple Watch.

Energy efficiency terms: The energy efficiency values are based on the following conditions.

Charger Power - Watch Disconnected: Condition in which the Apple 20W USB-C Power Adapter with the Apple Watch Magnetic Charging Cable (1m) is connected to AC power, but not connected to Apple Watch Ultra 3, as measured by US Department of Energy procedures outlined in Appendix Y to Subpart B of Part 430, Title 10, no battery mode.

Power adapter efficiency: Average efficiency of the Apple 20W USB-C Power Adapter as measured by US Department of Energy procedures outlined in Appendix Z to Subpart B of Part 430, Title 10 at lowest voltage output.

Power consumption for Apple Watch Ultra 3			
Mode	100V	115V	230V
Charger Power—Watch Disconnected	0.22W	0.22W	0.24W
Power adapter efficiency	86.6%	86.9%	85.7%

- 9 Apple Watch Ultra 3 has a water resistance rating of 100 meters under ISO standard 22810:2010 and certified to EN13319. This means that it may be used for shallow-water activities like swimming in a pool or ocean, in addition to high-speed water sports like kitesurfing and wakeboarding, as well as recreational scuba diving to 40 meters.
- 10 MIL-STD 810H is a certification for military equipment. Tested categories include: Altitude, High Temperature, Low Temperature, Temperature Shock, Immersion, Freeze/Thaw, Shock, Vibration.
- 11 Trade-in values vary based on the condition, year, and configuration of your trade-in device, and may also vary between online and in-store trade-in. You must be at least 18 years old. In-store trade-in requires presentation of a valid, government-issued photo ID (local law may require saving this information). Additional terms from Apple or Apple's trade-in partners may apply.