

Carbon Neutral Report for Apple Watch bands:

Sport Loop, Alpine Loop, Trail Loop, Milanese Loop, Titanium Milanese Loop, Braided Solo Loop, and Pride Edition Braided Solo Loop (42mm and 46mm)

September 2024



Our carbon neutrality strategy for carbon neutral Apple Watch bands

Our goal is to achieve carbon neutrality for our entire carbon footprint by 2030, reducing our total carbon emissions to no more than 9.6 million metric tons—at least a 75 percent reduction against our 2015 baseline. To reach this ambitious goal, we must substantially decarbonize our products.

Our rigorous strategy to decarbonize products focuses on transitioning to low-carbon electricity, designing with recycled and renewable materials, and prioritizing lower-carbon ways of shipping products, like with ocean freight. Only after we've substantially reduced emissions will we apply carbon credits from high-quality projects to achieve carbon neutrality.

Here is our approach to drastically reduce carbon emissions from the design, production, and use of carbon neutral Apple Watch bands.

How we're reducing emissions

- Using recycled and renewable materials: To address emissions generated by using primary materials, we're increasing the recycled content in our products, maximizing material and manufacturing efficiencies, and improving yields. And where we've not yet fully transitioned to recycled content, we're prioritizing renewable and low-carbon materials, such as aluminum smelted with hydroelectricity. By 2025, we plan to use 100 percent recycled cobalt in all Appledesigned batteries, 100 percent recycled tin soldering and 100 percent recycled gold plating in all Appledesigned rigid and flexible printed circuit boards, and 100 percent recycled rare earth elements in all magnets. All bands covered by this report have at least 30 percent total recycled content by weight.
- Sourcing 100% renewable electricity for manufacturing: To reduce emissions from the electricity used to make products, we're working to transition our entire supply chain to 100 percent renewable electricity and prioritizing energy efficiency in manufacturing. For carbon neutral bands, 100 percent of manufacturing electricity is sourced from renewable energy.
- Increasing non-air transportation: To reduce emissions from transporting products, we're shifting from air shipping to lower-carbon modes, like ocean or rail. Across the combined weight of all carbon neutral watches and bands, we're shipping 50 percent or more by non-air modes from our final assembly sites to their next destination, primarily regional distribution hubs.

How we reach carbon neutral for carbon neutral bands

To address remaining emissions, we deploy nature-based solutions that generate high-quality carbon credits. Nature-based solutions play an important role in addressing the climate crisis, contributing to the health of ecosystems and remove carbon from the atmosphere. We are aligned with the scientific consensus that carbon credits should only be applied after aggressive efforts to reduce emissions and increase efficiency have been implemented. We created the Restore Fund to scale up high-quality, nature-based carbon removal projects around the world and also often originate our own projects with reputable partners. Apple uses credits from projects that align with international standards such as Verra and the Climate, Community & Biodiversity (CCB) Standard, which ensure projects are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence. Carbon credits are retired after the end of each fiscal year, to correspond to the remaining emissions from the total number of products sold in the prior fiscal year. Apple uses an independent third party to confirm that the correct number of credits have been retired.²

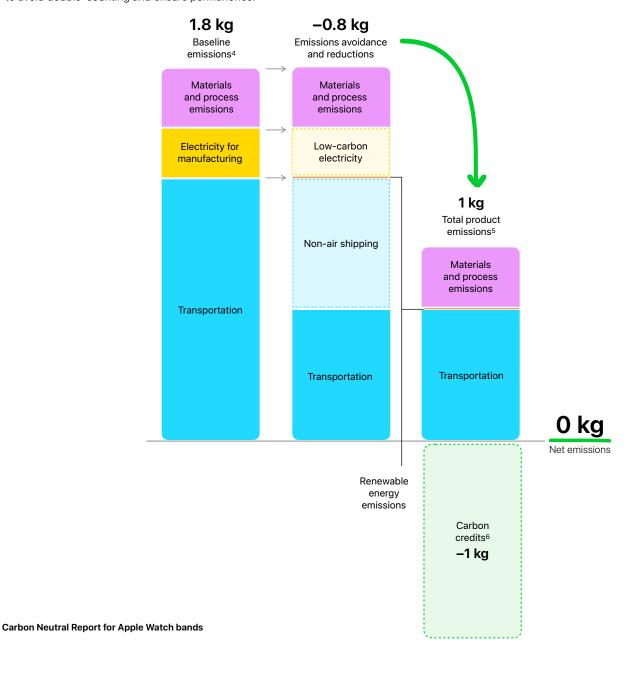
How we're demonstrating progress

We first calculate the carbon footprint of the product using a life cycle carbon analysis approach, in accordance with international standards. To help ensure our work is translating to real reductions, we consider what emissions would have been without our actions. We apply the following assumptions to create this product-specific business-as-usual scenario as modeled by Apple:

- No use of low-carbon electricity for manufacturing or product use, beyond what is already available on the latest modeled grid (based on regional emissions factors).
- Apple's carbon intensity of key materials as of 2015. Carbon intensity of materials reflects use of recycled content and production technology.
- Apple's average mix of transportation modes (air, rail, ocean, ground) by product line across three years (fiscal years 2017 to 2019) to best capture the baseline transportation emissions of our products.

How we reached carbon neutral for Sport Loop, Braided Solo Loop, and Pride Edition Braided Solo Loop (42mm and 46mm)

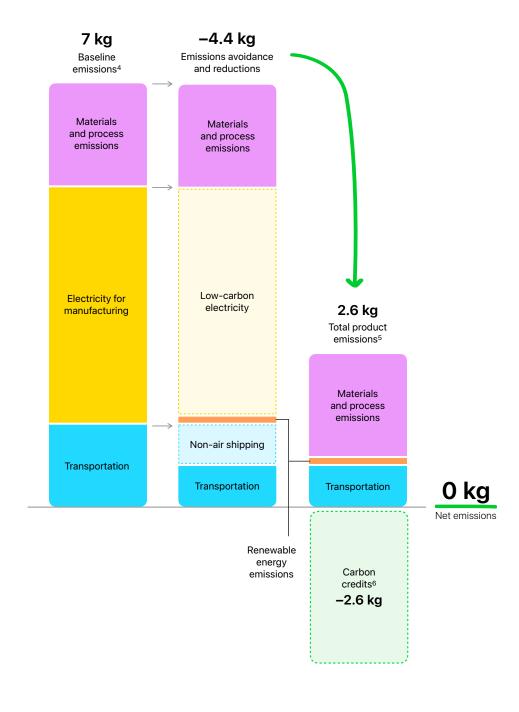
We've reduced emissions for Sport Loop, Braided Solo Loop, Pride Edition Braided Solo Loop (42mm and 46mm) ³ by more than 40 percent against our business-as-usual scenario as modeled by Apple. ⁴ Sport Loop has more than 45 percent recycled content, including 100 percent recycled spandex, PET, and nylon, some of which contain discarded fishing nets. 100 percent of manufacturing electricity is covered by renewable electricity. In our carbon footprint calculations, we also account for the emissions necessary to generate renewable electricity, specifically to manufacture and maintain renewable energy infrastructure, like wind and solar farms. We've reduced transportation-related emissions with a logistics plan that uses more non-air shipping over the lifetime of carbon neutral watches and bands. Only after these efforts do we cover residual emissions through high-quality carbon credits that are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence.²



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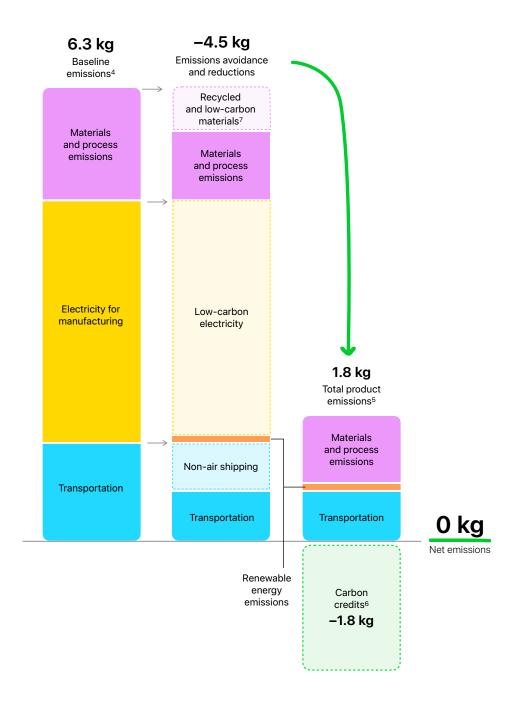
How we reached carbon neutral for Alpine Loop

We've reduced emissions for Alpine Loop by more than 60 percent against our business-as-usual scenario as modeled by Apple.⁴ This band contains more than 40 percent recycled content, including 100 percent recycled polyester, 100 percent recycled spandex, and 90 percent recycled titanium in the hook. 100 percent of manufacturing electricity is covered by renewable electricity. In our carbon footprint calculations, we also account for the emissions necessary to generate renewable electricity, specifically to manufacture and maintain renewable energy infrastructure, like wind and solar farms. We've reduced transportation-related emissions with a logistics plan that uses more non-air shipping over the lifetime of carbon neutral watches and bands. Only after these efforts do we cover residual emissions through high-quality carbon credits that are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence.²



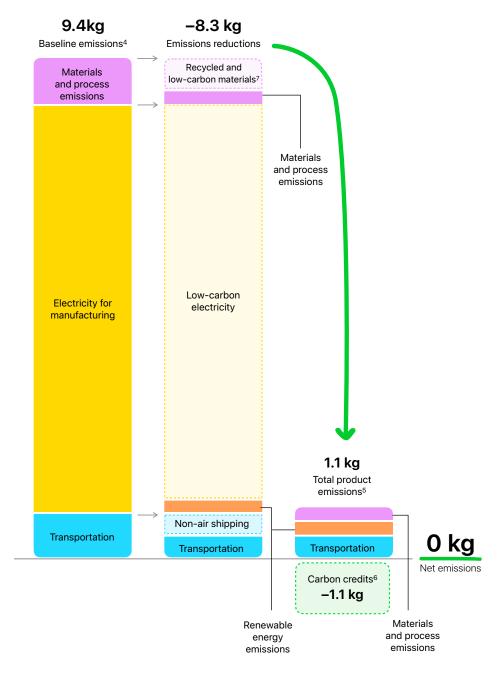
How we reached carbon neutral for Trail Loop

We've reduced emissions for Trail Loop by more than 70 percent against our business-as-usual scenario as modeled by Apple.⁴ This band contains more than 30 percent recycled content, including 100 percent recycled polyester, nylon, and spandex, and 90 percent recycled titanium in the hook. 100 percent of manufacturing electricity is covered by renewable electricity. In our carbon footprint calculations, we also account for the emissions necessary to generate renewable electricity, specifically to manufacture and maintain renewable energy infrastructure, like wind and solar farms. We've reduced transportation-related emissions with a logistics plan that uses more non-air shipping over the lifetime of carbon neutral watches and bands. Only after these efforts do we cover residual emissions through high-quality carbon credits that are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence.²



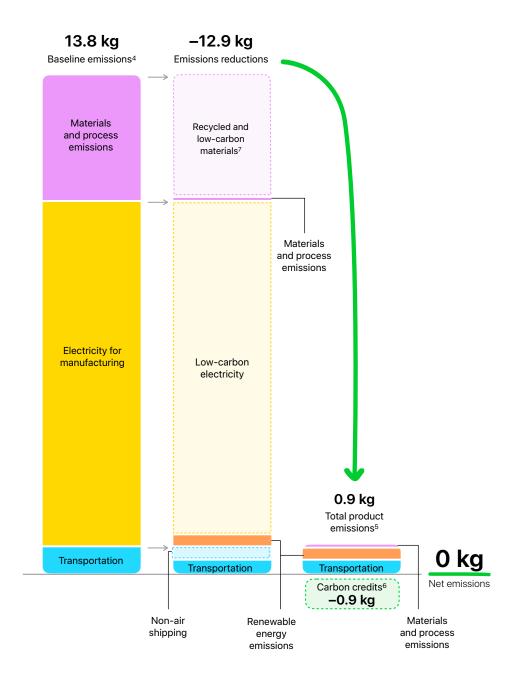
How we reached carbon neutral for Milanese Loop

We've reduced emissions for Milanese Loop by more than 85 percent against our business-as-usual scenario as modeled by Apple.⁴ This band contains more than 65 percent recycled content, including 80 percent recycled stainless steel in the mesh. 100 percent of manufacturing electricity is covered by renewable electricity. In our carbon footprint calculations, we also account for the emissions necessary to generate renewable electricity, specifically to manufacture and maintain renewable energy infrastructure, like wind and solar farms. We've reduced transportation-related emissions with a logistics plan that uses more non-air shipping over the lifetime of carbon neutral watches and bands. Only after these efforts do we cover residual emissions through high-quality carbon credits that are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence.²



How we reached carbon neutral for Titanium Milanese Loop

We've reduced emissions for Titanium Milanese Loop by more than 90 percent against our business-as-usual scenario as modeled by Apple.⁴ This band contains 85 percent recycled content, including 95 percent recycled titanium in the mesh and hardware. 100 percent of manufacturing electricity is covered by renewable electricity. In our carbon footprint calculations, we also account for the emissions necessary to generate renewable electricity, specifically to manufacture and maintain renewable energy infrastructure, like wind and solar farms. We've reduced transportation-related emissions with a logistics plan that uses more non-air shipping over the lifetime of carbon neutral watches and bands. Only after these efforts do we cover residual emissions through high-quality carbon credits that are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence.²



Carbon footprint

Greenhouse gas (GHG) emissions	Sport Loop, Braided Solo Loop, Pride Edition Braided Solo Loop (42mm and 46mm) ³	
Apple emissions from utility-purchased electricity (scope 2)	0 kg CO ₂ e	
Life cycle product emissions (scope 3)	1 kg CO₂e	
Production	25%	
Generation of renewable electricity - production	1%	
· Transportation	68%	
· Product use	N/A	
End-of-life processing	8%	
GHG reductions achieved ⁴	↓44%	
Product footprint before carbon credits	1 kg CO₂e	
Carbon credits applied (per product)	1 kg CO ₂ e	
Total product footprint after carbon credits	0 kg CO₂e	

Note: Percentages may not total 100 due to rounding.

Greenhouse gas emissions	Alpine Loop
Apple emissions from utility-purchased electricity (scope 2)	0 kg CO₂e
Life cycle product emissions (scope 3)	2.6 kg CO ₂ e
Production	70%
Generation of renewable electricity - production	5%
Transportation	28%
· Product use	N/A
• End-of-life processing	2%
GHG reductions achieved ⁴	↓ 62%
Product footprint before carbon credits	2.6 kg CO₂e
Carbon credits applied (per product)	2.6 kg CO₂e
Total product footprint after carbon credits	0 kg CO₂e

Note: Percentages may not total 100 due to rounding.

Greenhouse gas emissions	Trail Loop
Apple emissions from utility-purchased electricity (scope 2)	0 kg CO₂e
Life cycle product emissions (scope 3)	1.8 kg CO ₂ e
· Production	57%
$\boldsymbol{\cdot}$ Generation of renewable electricity - production	6%
· Transportation	40%
· Product use	N/A
• End-of-life processing	4%
GHG reductions achieved ⁴	↓71%
Product footprint before carbon credits	1.8 kg CO₂e
Carbon credits applied (per product)	1.8 kg CO₂e
Total product footprint after carbon credits	0 kg CO₂e

Note: Percentages may not total 100 due to rounding.

Carbon footprint

Greenhouse gas emissions	Milanese Loop
Apple emissions from utility-purchased electricity (scope 2)	0 kg CO ₂ e
Life cycle product emissions (scope 3)	1 kg CO₂e
· Production	54%
Generation of renewable electricity - production	27%
Transportation	43%
· Product use	N/A
End-of-life processing	3%
GHG reductions achieved ⁴	↓>85%
Product footprint before carbon credits	1 kg CO₂e
Carbon credits applied (per product)	1 kg CO₂e
Total product footprint after carbon credits	0 kg CO₂e

Note: Percentages may not total 100 due to rounding.

Greenhouse gas emissions	Titanium Milanese Loop
Apple emissions from utility-purchased electricity (scope 2)	0 kg CO₂e
Life cycle product emissions (scope 3)	0.9 kg CO ₂ e
Production	48%
Generation of renewable electricity - production	36%
Transportation	48%
Product use	N/A
• End-of-life processing	3%
GHG reductions achieved ⁴	↓>90%
Product footprint before carbon credits	0.9 kg CO₂e
Carbon credits applied (per product)	0.9 kg CO₂e
Total product footprint after carbon credits	0 kg CO₂e

Note: Percentages may not total 100 due to rounding.

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.

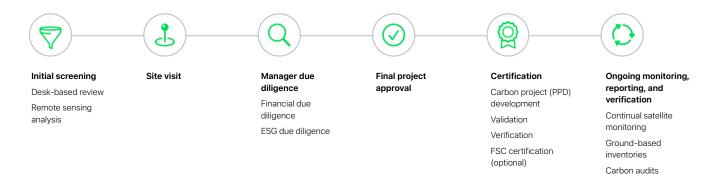
For more information on our product carbon footprint methodology, visit apple.com/environment/answers.

High-quality carbon removal

We plan to reach our goal of becoming carbon neutral across our entire value chain by 2030, using a wide range of solutions at our disposal.

We are unequivocal in our priority: Emissions reductions take precedence over carbon removal. Achieving this requires urgent action within our own operations and partnership across our entire value chain. We are reducing direct greenhouse gas emissions in our facilities and supporting emissions reductions in our supply chain through process innovation, direct emissions abatement, and transitioning to renewable energy.⁸

In 2021, we partnered with Conservation International and Goldman Sachs to launch the Restore Fund—an innovative nature-based carbon removal investment strategy. In 2023, we doubled our commitment to nature-based restoration with a second fund in partnership with Climate Asset Management. Each of these funds aim to remove 1 million tonnes of carbon dioxide from the atmosphere at peak as well as provide important benefits for local communities and protect and enhance biodiversity. To ensure that every project that we invest in is high quality, the Restore Fund implements rigorous diligence processes including project and manager-level diligence, site visits, and remote sensing analysis. Read more about our approach to drive scale and quality in our Carbon Removal Strategy white paper.



The first phase of our innovative fund has focused on blending responsible forestry practices with carbon removal. We're working with forestry managers to create new, responsibly managed forests that are optimized for both carbon and wood production to create revenue from timber and generate high-quality carbon credits. The projects also seek to maximize positive environmental impact, including carbon, hydrology, and habitat restoration.

As the projects in the Restore Fund are deployed, we're also working to address difficult-to-avoid emissions in the short term. We're intentional about identifying projects that are of the highest standard and that achieve meaningful impact. We often originate our own projects working with a reputable partner, like Conservation International, or we carefully select projects from third-party certified registries. Apple uses credits from projects that align with international standards such as Verra and the Climate, Community & Biodiversity (CCB) Standard. These standards ensure that the projects generating credits are real, additional, measurable, quantified, and have systems in place to avoid double-counting and ensure permanence.²

Carbon credits applied are retired after the end of each fiscal year, to correspond to the remaining emissions from the total number of products sold in the prior fiscal year. Apple uses an independent third party to confirm that the correct number of credits have been retired.

High-quality carbon removal

The high-quality carbon credit projects used to compensate the remaining emissions may include the following:

Project name	Project description	Accounting methodology used	Registry link
Forestal Apepu Carbon Project	Forestal Apepu S.A. is a company established in 2019 by the Arbaro Fund to conduct sustainable reforestation in Eastern Paraguay. The aim of the company is the production of	AR-ACM0003 Afforestation and reforestation of lands	https://registry.verra.org/app/ projectDetail/VCS/2369
(Part of the Restore	quality logs for solid timber uses, the sequestration of carbon and the generation of qualified jobs in a highly deforested landscape. Forestal Apepu currently owns 8,256 ha in	except wetlands	
Fund)	the Department of San Pedro. Prior to Forestal Apepu's acquisition, the land was used for		
	agriculture and cattle grazing, and much of the natural forest had been removed. Currently,		
	the company maintains around 30% of its area in natural forest cover and other conservation areas. The remnant natural forest is degraded due to the historical extraction		
	of timber prior to Forestal Apepu ownership. Forestal Apepu is seeking to restore forest		
	cover across its land holdings through a combination of commercial eucalyptus forest		
	plantations, trials of native species for restoration purposes, and the strict protection of the		
	remaining natural forest. The company has established 5,517 ha of commercial forest plantations to date and may expand in the future upon identification of potential expansion		
	areas in the region.		

Endnotes

- ¹ All cobalt in the battery claims or references use mass balance allocation.
- ² Read more about our approach in Apple's Carbon Removal Strategy white paper.
- ³ To model Braided Solo Loop and Pride Edition Braided Solo Loop (42mm and 46mm), our analysis shows we can conservatively assume Sport Loop sufficiently represents the modeled carbon emissions of these select carbon neutral bands.
- ⁴ Carbon reductions are calculated against a product-specific business-as-usual scenario modeled by Apple: 1) No use of clean electricity for manufacturing or product use, beyond what is already available on the latest modeled grid (based on regional emissions factors). 2) Apple's carbon intensity of key materials as of 2015 (our baseline year for our 2030 product carbon neutrality goal). Carbon intensity of materials reflects use of recycled content and production technology. 3) Apple's average mix of transportation modes (air, rail, ocean, ground) by product line across three years (fiscal years 2017 to 2019) to best capture the baseline transportation emissions of our products.
- ⁵ Greenhouse gas emissions were calculated using a life cycle assessment methodology in accordance with ISO 14040, 14044, and 14067 standards and based on Sport Loop, Alpine Loop, Trial Loop, Milanese Loop, Titanium Milanese Loop, Braided Solo Loop, and Pride Edition Braided Solo Loop (42mm and 46mm). 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.
- ⁶ Apple uses credits from projects that align with international standards such as Verra and the Climate, Community & Biodiversity (CCB) Standard. These standards ensure that the projects generating credits are real, additional, measurable, quantified, and have measures in place to avoid double-counting and ensure permanence.
- ⁷ We calculate emissions savings from the use of recycled or low-carbon materials in our products by comparing the carbon intensity of key materials today with their 2015 baseline for Apple products or using industry average data. We currently only quantify the carbon savings from the use of recycled aluminum, titanium, and stainless steel in the enclosure, as well as recycled lithium, cobalt, tungsten, and gold in select parts for select products. This means the actual emissions avoided from recycled materials are likely larger. We plan to improve our accounting of recycled content over time.
- ⁸ For more information on Apple 2030, visit apple.com/2030.

SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

Apple Inc.

1 Apple Park Way, Cupertino, California 95014, United States

Trail Loop

May be used as a representative proxy for all colors and sizes, and for optional configurations with same or lower environmental impact (e.g. smaller on-board storage configurations)

Certification Scope:

Verification of Apple Inc.'s 2023 achievement of Carbon Neutral Certification based on the Cradle-to-Grave Greenhouse Gas emissions for its Trail Loop product.

Certification Criteria:

•SCS -108 Certification Standard for Carbon Neutral Entities, Buildings, Products and Services: Version 1.0.

•ISO 14067:2018 Greenhouse gases – Carbon footprint of products – Requirements and guidelines for quantification

TOTAL EMISSIONS VERIFIED: 1.77 KGS OF CO₂e PER UNIT TOTAL EMISSIONS OFFSET: 1.77 KGS OF CO₂e PER UNIT

Carbon Neutral Certification was achieved by Apple Inc. for its Trail Loop product, in accordance with the SCS -108 Carbon Neutral Standard for the period of September 12, 2023 through September 11, 2024. Apple has also committed to maintain certification for the period of September 12, 2024 through September 11, 2025.

Certification # SCS-CN-00111

Achievement Date: 09.12.2023 to 09.11.2024 Commitment Date: 09.12.2024 to 09.11.2025



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Apple Inc.

1 Apple Park Way, Cupertino, California 95014, United States

Sport Loop

May be used as a representative proxy for all colors and sizes, and for optional configurations with same or lower environmental impact (e.g. smaller on-board storage configurations)

Certification Scope:

Verification of Apple Inc.'s 2023 achievement of Carbon Neutral Certification based on the Cradle-to-Grave Greenhouse Gas emissions for its Sport Loop product.

Certification Criteria:

- •SCS -108 Certification Standard for Carbon Neutral Entities, Buildings, Products and Services: Version 1.0.
- •ISO 14067:2018 Greenhouse gases Carbon footprint of products Requirements and guidelines for quantification

TOTAL EMISSIONS VERIFIED: 0.97 KGS OF CO₂e PER UNIT TOTAL EMISSIONS OFFSET: 0.97 KGS OF CO₂e PER UNIT

Carbon Neutral Certification was achieved by Apple Inc. for its Sport Loop product, in accordance with the SCS -108 Carbon Neutral Standard for the period of September 12, 2023 through September 11, 2024. Apple has also committed to maintain certification for the period of September 12, 2024 through September 11, 2025.

Certification # SCS-CN-00112

Achievement Date: 09.12.2023 to 09.11.2024 Commitment Date: 09.12.2024 to 09.11.2025



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Apple Inc.

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Alpine Loop

May be used as a representative proxy for all colors and sizes, and for optional configurations with same or lower environmental impact (e.g. smaller on-board storage configurations)

Certification Scope:

Verification of Apple Inc.'s 2023 achievement of Carbon Neutral Certification based on the Cradle-to-Grave Greenhouse Gas emissions for its Alpine Loop product.

Certification Criteria:

- SCS -108 Certification Standard for Carbon Neutral Entities, Buildings, Products and Services: Version 1.0.
- ISO 14067:2018 Greenhouse gases Carbon footprint of products Requirements and guidelines for quantification

TOTAL EMISSIONS VERIFIED: 2.58 KGS OF CO₂e PER UNIT TOTAL EMISSIONS OFFSET: 2.58 KGS OF CO₂e PER UNIT

Carbon Neutral Certification was achieved by Apple Inc. for its Alpine Loop product, in accordance with the SCS -108 Carbon Neutral Standard for the period of September 12, 2023 through September 11, 2024. Apple has also committed to maintain certification for the period of September 12, 2024 through September 11, 2025.

Certification # SCS-CN-00116

Achievement Date: 09.12.2023 to 09.11.2024 Commitment Date: 09.12.2024 to 09.11.2025



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Apple Inc.

1 Apple Park Way, Cupertino, California 95014, United States

Titanium Milanese Loop

May be used as a representative proxy for all colors and sizes, and for optional configurations with same or lower environmental impact (e.g. smaller on-board storage configurations)

Certification Scope:

Validation of Apple Inc.'s 2024 declaration of commitment to Carbon Neutral Certification based on the Cradle-to-Grave Greenhouse Gas emission for its product consisting of Titanium Milanese Loop.

Certification Criteria:

- SCS -108 Certification Standard for Carbon Neutral Entities, Buildings, Products and Services: Version 1.0.
- ISO 14067:2018 Greenhouse gases Carbon footprint of products Requirements and guidelines for quantification

TOTAL ESTIMATED EMISSIONS VERIFIED: 0.90 KGS OF CO₂e PER UNIT TOTAL ESTIMATED EMISSIONS TO OFFSET: 0.90 KGS OF CO₂e PER UNIT

Carbon Neutral Certification, based on the declaration of commitment made by Apple Inc. for its product consisting of Titanium Milanese Loop, in accordance with the SCS-108 Carbon Neutral Standard for the period of September 1, 2024 through August 31, 2025.

Certificate # SCS-CN-10009

Commitment Date: 09-01-2024 to 08-31-2025

CARBON NEUTRAL CERTIFIED
SCS GLOBAL SERVICES

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2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

SCS Global Services does hereby certify that an independent assessment has been conducted for:

Apple Inc.

1 Apple Park Way, Cupertino, California 95014, United States

Milanese Loop

May be used as a representative proxy for all colors and sizes, and for optional configurations with same or lower environmental impact (e.g. smaller on-board storage configurations)

Certification Scope:

Validation of Apple Inc.'s 2024 declaration of commitment to Carbon Neutral Certification based on the Cradle-to-Grave Greenhouse Gas emission for its product consisting of Milanese Loop.

Certification Criteria:

- SCS -108 Certification Standard for Carbon Neutral Entities, Buildings, Products and Services: Version 1.0.
- ISO 14067:2018 Greenhouse gases Carbon footprint of products Requirements and guidelines for quantification

TOTAL ESTIMATED EMISSIONS VERIFIED: 1.10 KGS OF CO₂e PER UNIT TOTAL ESTIMATED EMISSIONS TO OFFSET: 1.10 KGS OF CO₂e PER UNIT

Carbon Neutral Certification, based on the declaration of commitment made by Apple Inc. for its product consisting of Milanese Loop, in accordance with the SCS-108 Carbon Neutral Standard for the period of September 1, 2024 through August 31, 2025

Certificate # SCS-CN-10010

Commitment Date: 09-01-2024 to 08-31-2025

CARBON NEUTRAL CERTIFIED
SCS GLOBAL SERVICES

Henry

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