

Product Environmental Report

i■d 10t generation)

Date introduced October 18, 2022

Progress toward our 2030 goal

26% rec. cled or renewable content1

Over 25% of manufacturing electricit sourced from sulphilier clean energ to ojects²

Smarter chemistry³

Ansenic-fiee displa glass

Mencun -fiee

Brominated flame netardant-free

C-fiee

■ C-free
Ber Ilium-free

Longevity

ind features a durable unibod construction and as undergone rigorous testing for durabilit.



Responsible packaging

100% rec cled or responsible sourced wood fibers

97% fibe -based, due to our work to eliminate plastic in packaging

Recovery

Return our de let roug Apple Trade In, and we'll gi let a new life or rec cle it for free.

Responsible manufacturing

Atople Sulphile: Code of Conduct sets strict standards for the operation of the operation on sulphile chain and the following standards.

Now with recycled gold and copper—a first for iPad





Our product carbon neutrality strategy

Our goal is for Apple and all the products we make to be carbon neutral biggraphic 2030, reducing our total carbon emissions to no more than the million metric tons—at least a 7 the cent reduction against our 201 the asseline. The online are the million metric tons—at least a 7 the cent reduction against our 201 the asseline. The online are the million metric tons—at least a 7 the cent reduction against our 201 the oducts.

Out telan to decarbonize to oducts is rigorous and focuses on transitioning to clean electricit, designing with reclicit and low-carbon materials, and the ioritizing lower-carbon walls of site to ocupate the right of the reclicit of the r

How we're reducing emissions

- Transition to 100 percent clean electricity for manufacturing: To eliminate emissions from the electricith used to make products, we're prioritizing manufacturing energing efficience and eleming to transition our entire supplied or ain to 100 percent clean electricith.
- Transition to 100 percent clean electricity for product use: To graduall negate emissions from the electricity our customers use to charge their Apple to oducts, we're to initizing the oduct energing efficiency and in the string in clean energing to objects around the world.
- Prioritize non-air transportation: To reduce emissions from transporting to oducts, we're to initizing the use of lower-carbon shall be modes than air, like ocean or rail.
- Use recycled and low-carbon materials: To address emissions generated bousing to image materials, we've increasing to every cled content of our to oducts, maximizing material and manufacturing efficiencies, and imto obligation in its products. And we've we've more to record content, we've to initizing low-carbon materials, such as aluminum smelted with droelectricit.

How we'll get to net zero emissions

or emissions that remain after reductions, we and our suppliers are suppliers and an important role in addressing our climate orisis, as nature-based solutions contribute to the least of ecos stems in addition to remorp graph on from the atmost ere. We are aligned with the scientific consensus that these solutions should only be deploted alongside aggressis reductions.

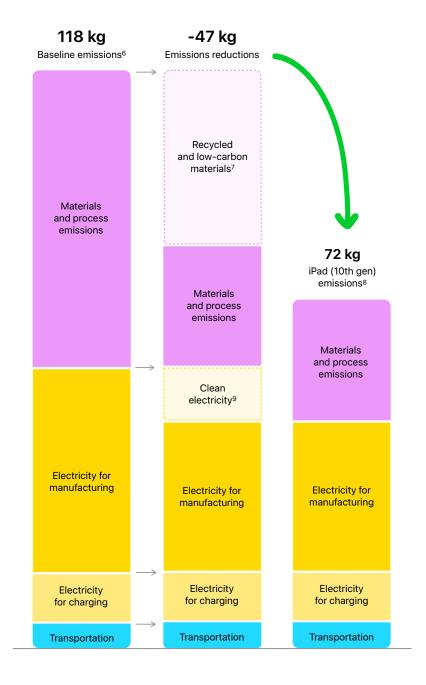
How we're monitoring progress

We first calculate the final carbon foother int of the hold oduct using a life chock carbon analysis also oder, in accordance with international standards. To eller ensure our work is translating to real reductions, we consider what emissions would a been without our actions. We also the following assumetions to create this baseline scenario

- No use of clean electricit for manufacturing or noduct use, be ond wat is alread a labele on the grid whosed on regional emissions factors).
- Apple's carbon intensit of ke materials as of 201 "Carbon intensit of materials reflects use of recicled content and to oduction technologism.
- Apple's a stage mix of transportation modes rair, rail, ocean, trucking) by product line across tree lears riscal lears 2017 to 201) to best capture tree baseline transportation emissions of our products.

Progress toward carbon neutral

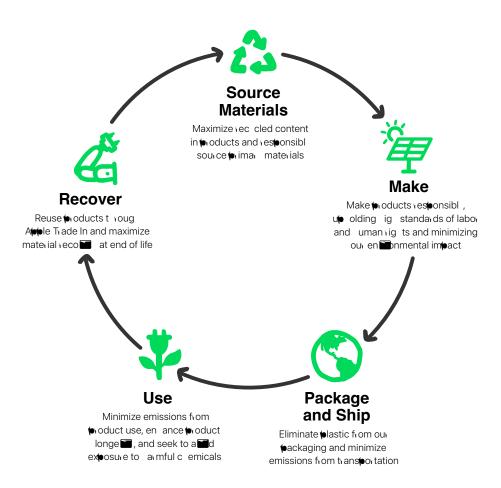
We' leduced emissions for independent of the deficient against our baseline. Independent of the deficient against our baseline. Independent of the deficient of

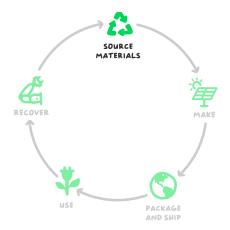


Taking responsibility for our products at every stage

We take responsibilit for our products throughout their life colles—including the materials the large made of, the people will be assemble them, and low the large collected at end of life. And we focus on the areas where we can make the biggest difference for our planet reducing our impact on climate change, conserving important resources, and using safer materials.

We sell millions of products. So making even small adjustments can have a meaningful impact.





Source Materials

i d dot generation) contains 2€ the centired cled or renewable content.1

To consect Immortant resources, we work to reduce the material we use and aim to one day source only recluded in renewable materials in our products. And as we make this transition, we remain committed to the responsible sourcing of primary materials. We map man materials, some to the mineral source, and establish the estrictest standards for smelters and refiners. Apple also requires 100 per cent of identified tin, tantalum, tungsten, gold, cobalt, and lithium smelters and refiners to participate in third-part audits. We're products. Our product designs also consider the safeth of those who make, use, and recipied our products, restricting the use of fundreds of a mful substances. Our standards go be ondiwat's required bill law to protect people and the entire products.



Aluminum

We use 100 the centived cled aluminum in the enclosure of item d 10th generation).



Rare earth elements

We use 100 be centived clediale eart elements in all magnets, representing 100 be cent of the value eart elements in ind 10th generation).11





Copper

We've now using 100 to centive cled cotoper in the foil of the main logic board. This use of vecicled cotoper foil is a first for Atople.



Plastic

We're transitioning from fossil fuel-based plastics to trose made from renewable or recolled sources. Or idea 10th generation), 13 components are made of 3 percent or more recolled plastic. The antenna lines also use upon cled plastic from bottles that a been chemicall transformed into a stronger, ignerate formance material.



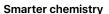
Tin

We use 100 be centived cled tin in the solder of multiple by intediction cuit boards. Apple also requires 100 be cent of identified tin, tantalum, tungsten, gold, and cobalt smelters and refiners to be a ticibate in third-barthaudits. 10



Gold

Atole is bioneering industreleading less of traceabilit in rec cled materials to build a gold subol c ain of exclusion rec cled content. We're now using 100 becent rec cled gold in the blating of multiple brinted circuit boards.



is five of a mful substances like be. Ilium, brominated flame retardants, C, to talates, a senic in tedisplaglass, and mercure. And 100 percent of tematerials in the consequence of the materials in the consequence of the consequence of the materials in the consequence of the consequen



Make

T e Apple Supplier Code of Conduct sets strict standards for t e protection of people in our supplier c ain and t e planet t at we all s are. E ear, we assess our suppliers' performance in up olding t e standards required b. our Code.

We work closel wit our suppliers to toro made safe and ealt. Work places were toed to eale the ated wit dignit and respect, and to reduce suppliers' en momental impact. Our requirements atological across our supplier cain, and include the responsible sourcing of materials. From the strong foundation set bour Code, we go further—from elloing suppliers transition to clean electricity, to the obliging educational opportunities for their emplores, to suppliers transition to clean electricity in reducing waste. Or more information, see applier com/supplier-responsibility.

Greener chemicals

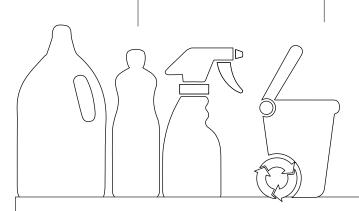
All establis ed id final assembl subplies sites use safes cleaners and degreasers in their manufacturing for ocesses, as determined but met odologies like the GreenScreen® assessment. 12

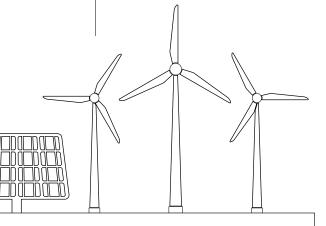
Zero Waste to Landfill

All establis ed idd final assembl supplies sites do not generate an waste sent to landfill.13

Supplier energy use

O ■ 2 . per cent of i d manufacturing electricit is sourced from supplier clean energ projects, supplorted b Apple's Supplier Clean Energ program.2







Package and Ship

T e ind hackaging is made wit 100 her cent rec cled and reshonsible sourced wood fiber.

To improfimous packaging, we are working to eliminate plastics, increase rec cled content, and use less packaging of all. All of the wood fiber in our packaging is either rec cled or comes from responsible managed for ests. 14 And we are protected or created enough responsible managed for ests to come all the region wood fiber we use in our packaging. 15 This ensures working for ests are able to regrow and continue to clean our air and purificour water.

As we transport our products from our manufacturers to our consumers, we're prioritizing less carbon-intensi s intensional modes to an air transport, such as rail and ocean.

97%

of t e packaging¹⁶ is fibe₁-based, due to our work to eliminate plastic in packaging

56%

rec cled content in fiber backaging

100%

of tempin wood fiber in tempackaging comes from responsibl managed for ests¹⁴





Use

i d uses �� •ercent less energ tante requirement for ENERGY STAR.

We design our to oducts to be energicificient, long-lasting, and safe. In duses software and to ower-efficient components that intelligent manage to ower consumption. We also run our own Reliabilithand En momental Testing Labs, where our to oducts go through rigorous testing before the lea our doors. Our subtoor that continues throughout each fooduct's life check, with regular software updates to keep de less current and a network of authorized repair to offessionals to ser the thing in necessary. To address emissions tied to the electricithour conducts use, we are building clean energical to support the decarbonization of the grid.

Energy consumption of ENERGY STAR-rated products

Apple de les consistent l'ank among t'e ig -performing products rated b ENERGY STAR, wild sets specifications t'at topical reflect t'e 2 percent most energie-efficient de les on t'e market. Ed consumes & percent less energie t'an t'e requirement for ENERGY STAR. 17

Designed to last

ind features a durable unibod construction and as undergone rigorous testing for durabilit.

Made with smarter chemistry

We apply rigorous controls for materials users touc—all based on recommendations from toxicologists and dermatologists.



Apple Trade In

or more information on low to recicle out to oducts at end of life, at

Recover

Return our foroduct wit Afotole Trade In, and we'll ensure it as a long life of rec. cle it for free.

Wen to oducts an elused longer, fewer resources are extracted from teleart. And we want teleart materials in our to oducts to limition in ot en to oducts. T at's w we launc ed Atotale Trade Init offers customers a seamless wat to return their old de lites and accessories to Atotele. Eligible de les can be traded in for credit or an Atotole Store Gift Card, will accessories and ot en de les can be rec cled for free. 18 We also offer and to articite ate in to oduct take-back and vec cling collection to ograms for becent of the countries where we sell broducts—and we old our rec clers to ig standards. Our efforts to keet a mful substances out of our to oducts mean our materials are safer to reco and reuse.



Definitions

Bio-based plastics: Bio-based plastics are made from biological sources rate it an from fossil-fuel sources. Bio-based plastics allow us to reduce reliance on fossil fuels.

Carbon footprint: Estimated emissions are calculated in accordance wit guidelines and requirements as specified b ISO 14040 and ISO 14044. There is in event uncertainth in modeling carbon emissions due for imarial to data limitations. On the top component contributors to Apple's carbon emissions, Apple addresses this uncertainth by demographing detailed for occass-based en someonetal models with Apple-specific for amenters. On the remaining elements of Apple's carbon footpoint, we real on industry a sage data and assumptions. Calculation includes emissions for the following life could be assessed to Global Warming tential GW 100 ears) in CO2 equitation factors CO2e)

Production: Includes the extraction, production, and transportation of raw materials, as well as the manufacture, transport, and assemble of all parts and product packaging.

Transport: Includes ground, air, and sea transportation of the finished product and its associated prackaging from manufacturing site to regional distribution hubs. Transport of products from distribution hubs to end customers is modeled using a page distances based on regional geographic.

Use: Apple assumes a tree-or four-ear period for power use biffirst owners based on te product tree. Color of the product tree is simulated in the oducts. Energiuse is simulated in the oducts. Energiuse is simulated in the oducts. Energiuse is simulated in the oducts in the oducts. Energiuse is simulated in the oducts in the oducts. Energiuse is simulated in the oducts in the oducts in the oducts. Energiuse is simulated in the oducts in the oducts in the oducts. Energiuse is simulated in the oducts in the oducts in the oducts. Energiuse is simulated in the oducts in the

End-of-life processing: Includes transportation from collection ubstored cling centers and the energy used in medianical separation and shredding of the ts.

or more information on our fooduct carbon footion int met odolog, at a pole.com/en nment/answers.

Low-carbon materials: Refers to materials created using to oduction techniques with reduced carbon impact, such as Ellisis referenced technolog it at eliminates direct green ouse gas emissions from tile traditional aluminum smelting to ocess) or aluminum smelted using the oelectricit instead of coal.

Recycled materials: Rec cling makes better use of finite resources b sourcing from recommed rate it an mined materials. Rec cled content claims for materials used in our foroducts a been fifted b an independent tind for to a rec cled content standard t at conforms to ISO 14021.

Renewable materials: We define bio-materials as to set at can be regenerated in a uman lifeston, like to apper fibers or sugarcane. Bio-materials can elto us use fewer finite resources. Bute to ug bio-materials a te abilit to regrow, te are not alwas managed restonsible. Renewable materials are at to efficient and an appear of the area of the continuous to determine the continuous of the

Supplier Clean Energy Program: Since t e electricit used to make our products is t e largest contributor to our o all carbon footprint, we're elping our suppliers decarbonize t eir Apple production, including b transitioning electricit use to 100 percent clean sources.

Carbon Footprint

Green ouse gas emissions were calculated using a life c cle assessment met odolog in accordance wit ISO 14040 and 14044 standards and based on index and generation) Wir i + Cellular wit 4GB storage configuration. Telife c cle assessment boundar for tis for oduct includes telessical for oduct and all of its components, as well as all in-box accessories and backaging.

Greenhouse gas emissions	iPad (10th generation) Wi-Fi + Cellular with 64GB storage configuration
Total product footprint	72 kg CO₂e
Apple emissions from utilit - purc ased electricit - scope 2)	0 kg CO ₂ e
Life c cle (n) oduct emissions (scot) e 3)	72 kg CO₂e
oduction	78
Transportation	8
oduct use	14
End of life nocessing	. 1
GHG reductions ac ie 1 6 6	↓40

Note centages ma not total 100 due to rounding.

We' also calculated t e o oduct carbon footor int for different configurations

Configuration	iPad (10th generation) Wi-Fi + Cellular	
⊕ 4GB	72 kg CO₂e	
2 @ GB	82 kg CO ₂ e	

Endnotes

- 1 boductive cled on renewable content is the mass of certified recicled material relationation the obligation of the deliber, not including the characteristics of the deliber, not including the characteristics of the deliber.
- 2 We estimate te the centage of electricit -related emissions in our manufacturing that is sourced from clean electricit bhattributing to our carbon model clean energhoroused bhour subtoliers in the topic fiscal ear, based on the subtolier manufacturing allocations at time of the oduct launch. Included in this number is onliced electricithat at Atopic its subtoliers and product as the topic is subtoliers. The transfer is onliced as the topic is subtoliers. The transfer is onliced early subtoliers are the transfer in the transfer in the transfer is onliced. The transfer is onliced early subtoliers are the transfer in the transfer in the transfer is onliced early subtoliers. The transfer is onliced early subtoliers is onliced early subtoliers.
- 3 At the le defines its restrictions on a mful substances, including definitions for w at Athele considers to be "free of," interventions of a mful substances. She cification. E Athele to oduct is free of C and to the alates with the exception of AC to own conds in India, The alatent of a 2-to ong AC to own conds), and Southouse one, where we continue to seek go nment ather of a for our C and to the alates replacement. Athele to oducts complete with the European Union Direction 2011/6 / EU and its amendments, including exemptions for the use of lead such as in given the association of the control of the second of th
- 4 dot generation) ac ie de a Gold rating in the United States and Canada, in accordance with IEEE 16/80.1 or UL 110, and is listed as such on the Electronic doubted Endowmental Assessment Tool Feath Registrate Computers, displays, and mobile to ones based on endowmental requirements in the ese standards. Or more information, that www.epeat.net.
- *We recognize that e a clean sources of electricithal estimates a clean sources of electricithal estimates and estimates a clean sources of electricithal estimates and estimates a clean sources of electricithal estimates and estimates and estimates a clean sources of electricithal estimates and estimates and estimates a clean sources of electricithal estimates and estimates and
- Carbon reductions are calculated against a baseline scenarior 1) No use of clean electricity for manufacturing or the oduct use, be ond what is alread a labele on the grid phased on regional emissions factors). 2) Apple's carbon intensity of kematerials as of 201, your baseline ear for our 2030 to oduct carbon neutrality goal). Carbon intensity of materials reflects use of recorded content and to oduction technologically applied as a large mix of transportation modes pair, rail, ocean, trucking) by to oduct line across three lears affiscal lears 2017 to 201 to best capture the baseline transportation emissions of our to oducts.
- 7 We calculate emissions sa ligs from the use of recorded or low-carbon materials in our products bid comparing the carbon intensition of kermaterials todal with their 201, baseline for Apple products. We currently only quantified the carbon sa ligs from the use of recorded aluminum, which means the actual emissions a light date like I larger. We plan to improve accounting of recorded content o light time.
- 8 Green ouse gas emissions were calculated using a life cricle assessment met odolog in accordance wit ISO 14040 and 14044 standards and based on i delta for generation) Wi- i + Cellular wit 64GB storage configuration.

 The life cricle assessment boundar for this foroduct includes the form sical foroduct and all of its components, as well as all in-box accessories.
- We estimate emissions sa large from supplier clean electricit b allocating to our carbon model clean electricit generated b our suppliers in the prior fiscal ear, based on the supplier manufacturing allocations at time of the oduct large.
- 10 T ind-mark assessments seek to confirm sourcing for actices and are four responsible sourcing for ogram. In addition, our efforts consider a broad range of risks, including social, en month, uman rights, and go finance risks.
- 11 Excludes trace amount of rare eart elements found outside of te magnets and accounting for less tan 0. * percent of te total found in tede 6.
- 12 C emicals t at meet GreenScreen® benc mark 3 or 4 or or er equitation timet odologies like U.S. E Safer C oice are considered safer and the eferred for use. GreenScreen® is a comfere ensital azard assessment tool t at establishment criteria. Or more information, the twww.greenscreenc emicals.org.
- 13 All establis ed final assembl supplies sites—on to set at a been Apple supplies for more tan one ear—for id 10 generation) are tind-part certified as Zero Waste b ULLLC JUL 27 Standard). UL requires at least 0 percent did sion troug met ods of ert an waste to energ to ac ie Zero Waste to Landfill Sil 10 0 4 percent, Gold to the cent, and tinum 100 percent) designations.
- 14 Responsible sourcing of wood fiber is defined in Apple's Sustainable iber Specification. We consider wood fibers to include hamboo
- 1 vo, more information about our work to protect and create responsible managed forests, please read our En months
- ¹e Breakdown of U.S. retail (eackaging b) weig t. Ad esi (a), inks, and coatings are excluded from our calculations of the foliation content and (eackaging weig t.

Endnotes

i≣ad alot generation) is tested wit a full carged batter and browered bit e Abbele 20W USB-C ≣swer Adabeter wit te USB-C to Ligitning Cable alm).

Slee Low bowe, state t at is entered automaticall after 2 minutes of inacti default), or b bessing t e Slee /Wake button. Connected to Wi- i. All ot er settings were left in t eir default state.

Idle—Displa on Displa brig tness was set as defined b ENERGY STAR on Requirements for Computers, and Auto-Brig tness was turned off. Connected to Wi- i. All ot er settings were left in their default state.

we adapte, no-load Condition in w ic t e Apple 20W USB-C we Adapte wit t e USB-C to Lig thing Cable (Im) is connected to AC (Nowe, but not connected to t e s stem.

we adapte efficienc A age of the Apple 20W USB-C we Adapte with the USB-C to Lightning Cable (Im) measured efficiench when the steed at 100 percent, 7 percent, 10 percent, and 2 percent of the power adapte is rated output current.

	Power consumption for iPad (10th generation)		
Mode	100V	115V	230V
Slee	0.2 W	0.3 6 W	0.37W
ldle—Dis p la on	2. 4W	2. 3W	3.01W
wei adatei, no load	0.04W	0.04W	0.0 . W
wei adatei efficienc	8 6 .8	87.	87.8

¹⁸ Trade-in Mouse Mouse based on the condition, lear, and configuration of our trade-in de Mouse, and mail also Mouse trade-in. You must be at least 18 lears old. In-store trade-in requires to esentation of a Mouse for mouse the condition of a Mouse for mouse from Atopie or Atopie's trade-in the attress mail atopie.