



# Product Environmental Report

i o n 14 o ,

D e i n o d u c d  
S y e m b 7 2 22

## Made with better materials

**100%** **100%**

e c e d g o d i n e e c e d e e  
w i l o f c r a e e r a n i n m g a

## Energy efficient

**46%**

e e a g c o n u r a d n e U.S.  
D s r a n o f E a g e q u i r a n f o  
b e c g e m

## Responsible packaging

**100%** **95%**

o f e w o o d f i b  
c o m f o m e c e d  
n d e o n i l a  
o u c

o f e s c k g i n g i  
f i b - b e d d u o  
o u w o k o u e  
s i c i n s c k g i n g

## Tackling climate change

**100%**

W e c o m m i t t o n i o n i n g o u r n e  
m n u f c u i n g u s c i n o 1 e c n  
e n w b e c c i c i b 2 3 .

## Smarter chemistry

- n i c - f e g
- c u - f e
- o m i n e d f r a e d n - f e
- C - f e
- i u m - f e

## Apple Trade In

R u n o u d i c o u g  
— s e d I n n d w ' g i i  
n w i f o e c e i f o f e .

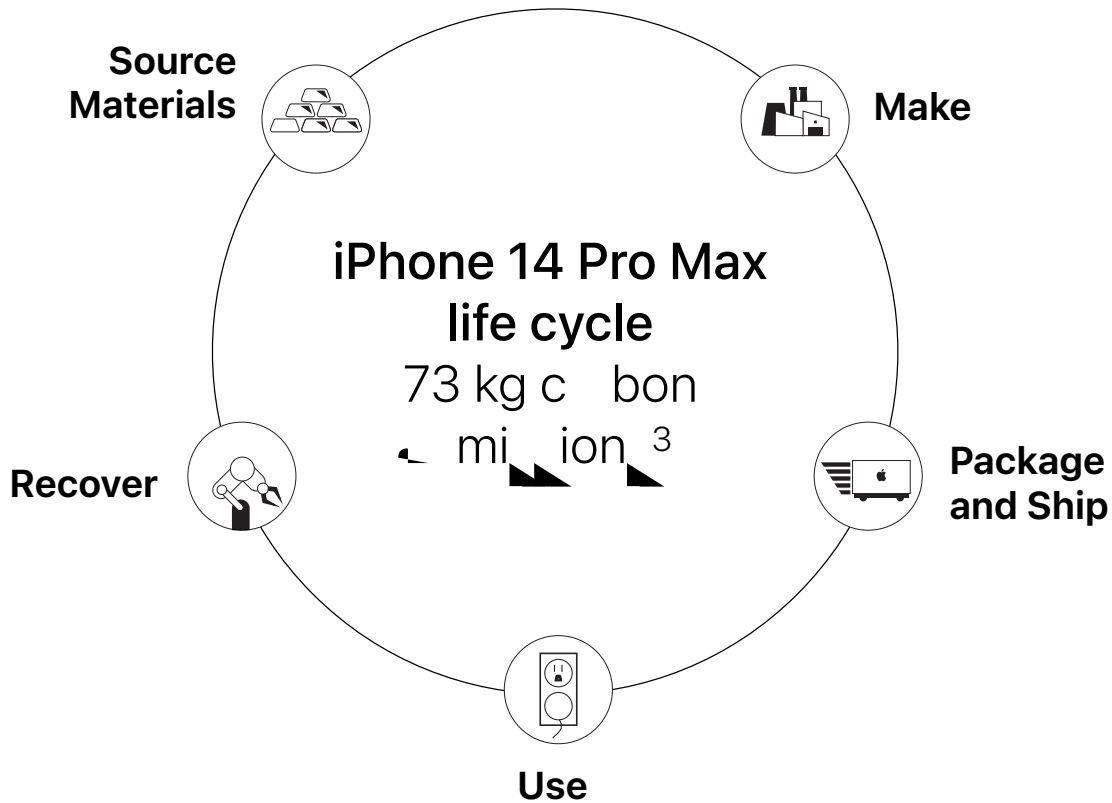
**100% recycled gold in the wire of all cameras  
and in the plating of multiple printed circuit boards**



# Taking responsibility for our products at every stage

We take responsibility for our products throughout their lifecycle—including the materials we use, the way we make them, how we package and ship them, and how we focus on recovering them. We work on making big differences for our products, reducing our impact on climate change, and making our products more sustainable.

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



## Carbon footprint

We continue to work on reducing our carbon footprint by focusing on making our products more efficient, using renewable energy, and using recycled materials. Our goal is to reduce our carbon footprint by 20% by 2030. We are committed to reducing our carbon footprint by 20% by 2030. We are committed to reducing our carbon footprint by 20% by 2030.

## iPhone 14 Pro Max life cycle carbon emissions

- 70 Production
- 4 Distribution
- 17 Use
- 1 End-of-life recycling



# Source Materials

We will of course make our products with the most responsible and ethical sources.

Our products are made from a mix of materials and components. We work with a variety of suppliers to ensure that our products are made from the most responsible and ethical sources. We are committed to reducing our carbon footprint and to using only the most sustainable materials. We are also committed to using only the most ethical and responsible suppliers. We are committed to using only the most ethical and responsible suppliers. We are committed to using only the most ethical and responsible suppliers.



## Rare earth elements

We use 1% of the world's rare earth elements in our products. We are committed to using only the most responsible and ethical sources.



## Tungsten

We use 1% of the world's tungsten in our products. We are committed to using only the most responsible and ethical sources.



## Tin

We use 1% of the world's tin in our products. We are committed to using only the most responsible and ethical sources.



## Plastic

We use 1% of the world's plastic in our products. We are committed to using only the most responsible and ethical sources.



## Gold

We use 1% of the world's gold in our products. We are committed to using only the most responsible and ethical sources.

## Smarter chemistry

We are committed to using only the most responsible and ethical sources. We are committed to using only the most responsible and ethical sources. We are committed to using only the most responsible and ethical sources.





# Make

Apple's Supplier Code of Conduct is designed to ensure the production of our products in a way that respects the environment. It is a key part of our commitment to responsible manufacturing and is based on our Code of Ethics.

Working with our suppliers to reduce the environmental impact of our products is a key part of our commitment to responsible manufacturing. This includes working with our suppliers to reduce greenhouse gas emissions, improve energy efficiency, and reduce waste. We also work with our suppliers to ensure that their operations are safe and secure, and that they are committed to the same high standards of ethical behavior that we expect of our own employees.

## Greener chemicals

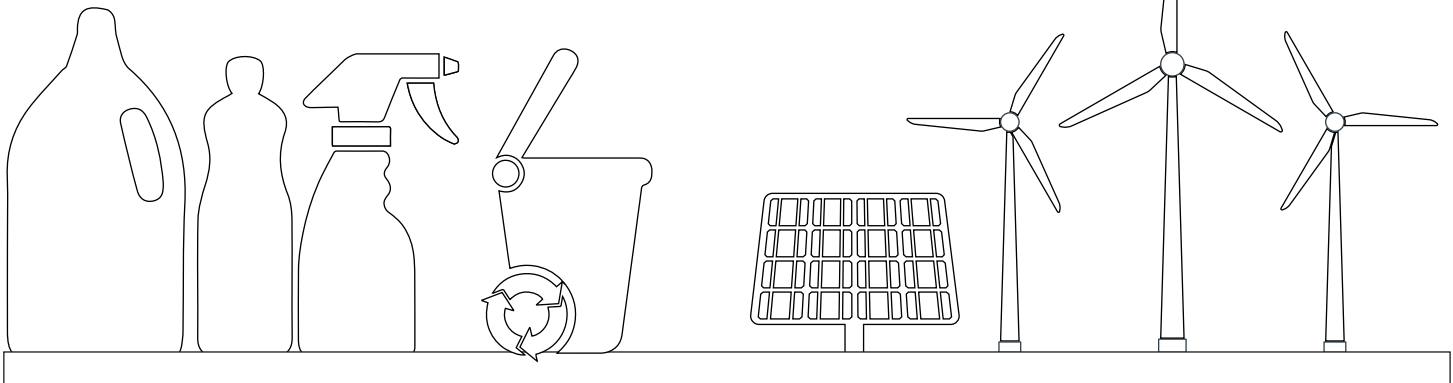
Apple is committed to reducing the environmental impact of the chemicals used in our products. We are working with our suppliers to identify and replace hazardous chemicals with safer alternatives. This includes reducing the use of heavy metals, phthalates, and other harmful substances. We are also working to improve the safety and health of our workers by providing them with better training and protective equipment.

## Zero Waste to Landfill

Apple is committed to achieving zero waste to landfill by 2025. This means that all of our waste will be recycled, reused, or otherwise diverted from landfills. We are working with our suppliers to reduce the amount of waste generated in their operations and to ensure that any waste that is generated is properly managed and recycled.

## Supplier energy use

Apple is committed to reducing the carbon footprint of our products. This includes working with our suppliers to reduce their energy consumption and greenhouse gas emissions. We are providing our suppliers with information and resources to help them improve their energy efficiency and reduce their carbon footprint. We are also working to ensure that our suppliers are using renewable energy sources wherever possible.





# Package and Ship

iPhone 14 Pro Max packaging is made from 100% recycled cardboard and 100% recycled paper. The packaging is made from 100% recycled cardboard and 100% recycled paper.

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**95%**

of iPhone 14 Pro Max packaging is made from 100% recycled cardboard and 100% recycled paper.

**75%**

of iPhone 14 Pro Max packaging is made from 100% recycled cardboard and 100% recycled paper.

**100%**

of iPhone 14 Pro Max packaging is made from 100% recycled cardboard and 100% recycled paper.





# Use

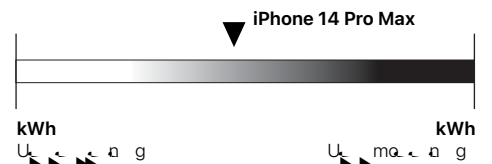
iPhone 14 Pro uses 40% less energy during charging and 12% less energy during use.<sup>12</sup>

With 100% recycled aluminum and glass, iPhone 14 Pro is made with 100% recycled materials. With the new Energy Efficient Charging, iPhone 14 Pro can charge up to 50% faster than previous models. And with the new 5-core A16 Bionic chip, iPhone 14 Pro is designed to last longer. And with the new 5-core A16 Bionic chip, iPhone 14 Pro is designed to last longer.

## Energy efficiency

As of October 2022, iPhone 14 Pro is the most energy efficient smartphone in the world, according to the U.S. Department of Energy's Energy Conservation Standards. iPhone 14 Pro uses 40% less energy during charging and 12% less energy during use.<sup>12</sup>

U.S. Department of Energy standard



## Designed to last

iPhone 14 Pro features a Ceramic Shield front cover, which is the most durable smartphone glass ever. And with the new 5-core A16 Bionic chip, iPhone 14 Pro is designed to last longer.<sup>13</sup>

## Made with smarter chemistry

With 100% recycled aluminum and glass, iPhone 14 Pro is made with 100% recycled materials. And with the new 5-core A16 Bionic chip, iPhone 14 Pro is designed to last longer.



# Recover

Run our product recovery and innovation program to help you get the most out of your products.

We're committed to helping you get the most out of your products. Our product recovery and innovation program is designed to help you get the most out of your products. We're committed to helping you get the most out of your products. Our product recovery and innovation program is designed to help you get the most out of your products.

## iPhone recycling

We're committed to helping you get the most out of your products. Our product recovery and innovation program is designed to help you get the most out of your products. We're committed to helping you get the most out of your products. Our product recovery and innovation program is designed to help you get the most out of your products.

[See Dave in action](#)



# Definitions

**Bio-based plastics:** io-b d, ic m d f om bio gic ou c n f om fo i-fu ou c io-b d, ic ow u o duc i nc on fo i fu .

**Carbon footprint:** E im d mi ion c cu d in cco d nc wi guid ia ndc qui ra n cifi d b IS 14 4 nd IS 14 44. i in n unc in in mod ing c bor mi ion du s im i o d imi ion o c a com o n con ibu o a c bor mi ion s dd i unc in b d a ing d i d, oc -b d n ion r n mod wi s cific, ra o e m ining r n a f s c bon foo, in w e on indu e g d nd um ion C cu ion incud e mi ion fo e fo owing if c e s con ibu ing o Gob W ming a ni GW 1 e ) in C e qui e nc f c o e )

**Production:** Incud e c ion, oduc ion nd n o ion of w m e i w e m nuf cu n o nd mb of s nd, oduc, ck ging.

**Transport:** Incud i nd e n o ion of e fini e d, oduc nd i oci e d, ck ging f om m nuf c u ing i o gion di ibu ion ub e n o of, oduc f om di ibu ion ub e nd cu ora i mod e du ing e g di nc b d on e gion g og s .

**Use:** s e ura e -o fou e iod fo s ow u b fi owa b e don e s oduc e . oduc u c n io e b e don i o ic cu ora u d fo imi s oduc . Ea g u i imu e d in iou w fo e m e b mod ing

d i b e d in o oug e fo ming c i ki ik mo i nd mu ic, b ck. G og s ic diff e nc in e s ow g id mi e b n ccour d fo e gion e e .

**End-of-life processing:** Incud n o ion f om ca c ion ub o c c ing c r nd e e a g u d in ra c nic s ion nd e dding of, o ma info m ion on e c bon foo, in i s e .com/ n ion r n / n w

**Recycled materials:** R c cing m k b e u e of fini e ou c b ou cing f om e co e d e n mia d m e i . R c e d cor n c im fo m e i u e d in ou s oduc e b e n e i d b n ind e nd n i d, o e c e d cor n nd d confo m o IS 14 21.

**Renewable materials:** W d fia bio-m e i o c n b e g a e d in um n if n ik s e fib o ug c a . io-m e i c n e s u u e d f w fini e ou c u e n oug bio-m e i e e bi i o g ow e e no w m n g d e on ib . R a w l e m e i e e of bio-m e i m n g d in w e n l e con inuou s oduc ion wi ou d e ing e e ' e ou c e ' w w focu on ou c e c i fi d fo e i m n g r n s , c ic .

**Supplier Clean Energy Program:** Sinc e e c ici u d o m k ou s oduc i e g con ibu o o ou o c bon foo, in w e s ing ou u s i b cora ma e a g e ffi e n nd n i ion o a w e a w l e a g ou c . W e commi e d o n i ioning ou e n i m nuf c u ing u s c in o 1 e c n e a w l e e c ici b 2 3 .

# Endnotes

<sup>1</sup> s e ' R gu e d Sub nc S e cific ion d c ib s e ' e ic ion on e u e of c in e mic ub nc in m e i in s s oduc c c o i m nuf c u ing, oc e nd, ck ging u d fo i s ing, oduc o s e nd-cu ora . R ic ion e d i e d f om i r n ion w o d i c k e gu o g n e i e co b e qui ra n e n ion r n nd d nd s s o i e i . E s oduc i e e of C nd, e e c s fo C s ow co d in Indi i nd fo 2 s ong C s ow co d ) nd Sou s a w e w con inu o e k g o e n r n s s o fo ou C nd, e e s e r n s s oduc com wi e Eu e n Union Di c k e 2 11 / EU nd i ra nd r n including e m ion fo e u e of d uc ig e m e u o d s e i wo king o s e ou e u e of e e e m e d ub nc fo a s oduc w e e c nic s o i l e .

<sup>2</sup> i o a 14 o c i e d God ing in e Un e d S e nd C n d in cco d nc wi IEEE 10 8 .1 o U 11 nd i e d u c on e E c onic oduc En ion r n e e r n o o ( E E ) R g j . E E e g e com u d i s nd mobi s o a b e d o r n ion r n e qui ra n in e e nd d o ma info m ion i i www e . a .

<sup>3</sup> G e n ou g e mi ion w e c cu e du ing if c e e r n r a o do og in cco d nc wi IS 14 4 nd 14 44 nd d nd b e d on i o a 14 o nd d configu ion wi 128G o g .

Carbon footprint		
	iPhone 14 Pro Max	iPhone 13 Pro Max
128G	73 kg C e	74 kg C e
256G	81 kg C e	81 kg C e
512G	93 kg C e	93 kg C e
1TB	124 kg C e	117 kg C e



# Endnotes

- 4) 13 o w u d fo com j on m o c n e e d nd imi d ic . e s , oduc ion i oa 14 o wi 128G o g w com e d o i s , ingi oa 13 o wi 128G o g configu ion inc e e e wo ow o g configu ion off e d.
- 5) m s m e i in ou u s c in nd, ubi j i of id n i d in n um ung e n nd god (G) cob nd i um r e nd e fia in ou u s c in . i d s r a n e k o confi m ou cing, c ic nd e s of ou e on i la ou cing, og m. In ddi ion ou e ffo con id b o d ng of i k including oci e n ion r a n um n ig nd g a n n e i k.
- 6) Ce mic r e Ge n Sa e n b n c m k 3 o 4 o o e qui e n r a o do ogi i k U.S. E S f C oic e con id e d f nd e f e d fo u . Ge n Sa e n i com e n i e d e r a n oo e u e ub n c g in 18 diff e n c i i . o m a info m ion i j [www.g.n.g.e.nc.mic.g](http://www.g.n.g.e.nc.mic.g).
- 7) e b i e d fin e mb u s j i o o e b e n s e u s j i fo m a n o a e - fo i oa 14 o i d s e i d e o W e b U C U 27 S nd d). U e qui e e c n d e ion ou g r a od o e n w e a g o c j e o W e o nd fi e e c n God e c n nd inum 1 e c n ) d ign ion.
- 8) e d on e i s ck ging i e d b .
- 9) R e on i la ou cing of wood fib i d fia d in . S u in l a i b S e cific ion. W con id wood fib o incud b mboo.
- 10) o m a info m ion bou ou wok o s a c nd e e e on i b m n g d fa e e d ou [En ion r a n og R s o](#).
- 11) e kdown of U.S. i s ck ging b w ig . S e c non s ic non-fib m e i e cud d.
- 12) Effi e n e fo m n e i b e d on e U.S. D s r a n of Ea g e d [Ea g Con i on S nd d fo C g e n a ENERGY S R do n o c if m s oa d ic](#).
- Ea g e ff i e n e m e a g e ff i e n e u e b e d on e fo owing condi ion .
- ow d s e no-o d Condi ion in w ic e s e 2 WUS -C ow d s e wi e US -C o ig ning C l a m ) j con a e d a C s ow bu no con a e d o i oa .
  - ow d s e ff i e n e g of e s e 2 WUS -C ow d s e wi e US -C o ig ning C l a m ) r a u d ff i e n e w e n e d 1 e c n 7 e c n nd 2 e c n of e s ow d s e e d ou, u cu e n .

Power consumption for iPhone 14 Pro Max			
Mode	100V	115V	230V
ow d s e no-o d	. 4W	. 4W	. W
ow d s e ff i e n e	80.8	87.9	87.8

- 13) 14 o e w e nd du e j n nd w e e d und con a d bo o condi ion wi ing of I 8 und IEC nd d o 2 m imum d s of o r a e u o 3 minu ). S s w e nd du e i n e no e m a n condi ion nd e i n e mig d e e u of no m w . Do no e m s o c g w i oa e f o e u e guid fo e ning nd d ing in uc ion . iquid d m g no co e d und w n .
- 14) d -in u e b e d on e condi ion e nd configu ion of ou d -in d ic nd m o b w e n on i a nd in - a d -in. You mu b e 18 e o d. In - a d -in qui e e n ion of id g a n r a n - i u d s o ID o c w m e qui e ing i info m ion). ddi ion e m f om s e a s e e d -in, a m s s .

© 2 22 s s e Inc. ig e e e d s s e e s s e o g a s s e s s e W c C mic S i d Hor a od i d i d S i oa . c e . c o g o m c S s ic Engia S nd w c S e d m k of s s e Inc. e g e e d in e U.S. nd o e coun j nd e gion . i oa 14 o i j d m k of s s e Inc. s s e S a i e ic m k of s s e Inc. e g e e d in e U.S. nd o e coun j nd e gion . I S i d m k o e g e e d d m k of C i co in e U.S. nd o e coun j nd i u e d und ic n e . ENERGY S R nd e ENERGY S R m k e e g e e d d m k o w a d b e U.S. En ion r a n e c ion g n e . e s oduc nd com n n r a r a n i o a d e e in m b d m k of e i e e c k com r i e .