



# Product Environmental Report

i o n 14 o ,

D e in oduc d  
S y e mb 7 2 22

## Made with better materials

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

e c e d god in e e c e d e e  
w i of c r a e e r a n in m g a

## Energy efficient

**46%**

e e a g con u r a d n e U.S.  
D s r a n of E a g e q u i r a n fo  
b e c g e m

## Responsible packaging

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

of e wood fib  
com f om e c e d  
nd e on i l a  
o u c

of e s ck ging i  
fib -b e d du o  
ou wo k o u e  
s i c in s ck ging

## Tackling climate change

**100%**

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

## Smarter chemistry

- e nic- f e g
- e cu - f e
- o m i n e d f r a e d n - f e
- C- f e
- 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 e e .

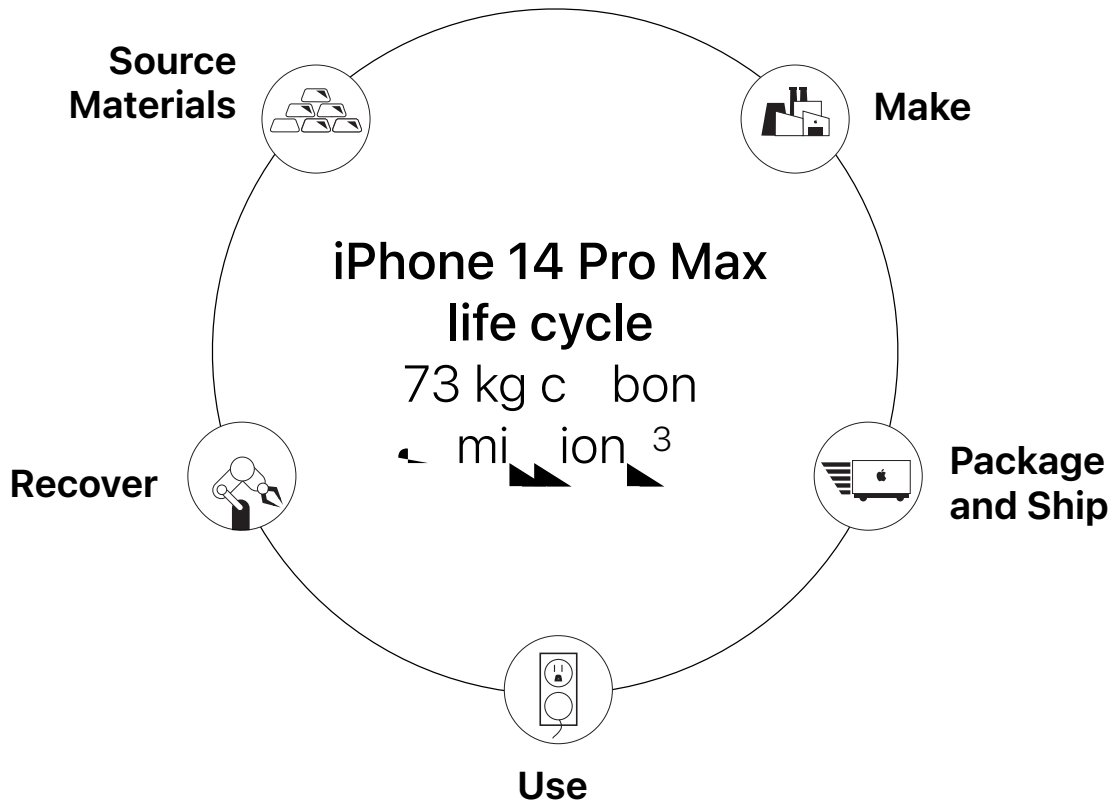
**100% recycled gold in the wire of all cameras  
and in the plating of multiple printed circuit boards**



# 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 supply chain is working to reduce our carbon footprint by using renewable energy and reducing our carbon footprint. We are committed to reducing our carbon footprint by using renewable energy and reducing our carbon footprint.

## 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 be mindful of our carbon footprint.

Our commitment to responsible sourcing is a key part of our product life cycle. We work with leading suppliers to ensure that the materials we use are sourced responsibly. We are committed to reducing our carbon footprint and are working to ensure that our supply chain is as sustainable as possible. We are also committed to using recycled materials wherever possible to reduce our environmental impact.



## Rare earth elements

We use 1% of the world's supply of rare earth elements in our products. We are committed to responsible sourcing and are working to ensure that our supply chain is as sustainable as possible.



## Tungsten

We use 1% of the world's supply of tungsten in our products. We are committed to responsible sourcing and are working to ensure that our supply chain is as sustainable as possible.



## Tin

We use 1% of the world's supply of tin in our products. We are committed to responsible sourcing and are working to ensure that our supply chain is as sustainable as possible.



## Plastic

We use 1% of the world's supply of plastic in our products. We are committed to responsible sourcing and are working to ensure that our supply chain is as sustainable as possible.



## Gold

We use 1% of the world's supply of gold in our products. We are committed to responsible sourcing and are working to ensure that our supply chain is as sustainable as possible.

## Smarter chemistry

In 2014, we introduced a new range of products made from recycled materials. We are committed to responsible sourcing and are working to ensure that our supply chain is as sustainable as possible.





# 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 a key part of our Supplier Code of Conduct.

Working with our suppliers to reduce the environmental impact of our products is a key part of our commitment to responsible manufacturing. We work with our suppliers to ensure that they are using sustainable materials and processes. This includes working with our suppliers to reduce their carbon footprint, improve their energy efficiency, and reduce their waste. We also work with our suppliers to ensure that they are using sustainable materials and processes. This includes working with our suppliers to reduce their carbon footprint, improve their energy efficiency, and reduce their waste.

## Greener chemicals

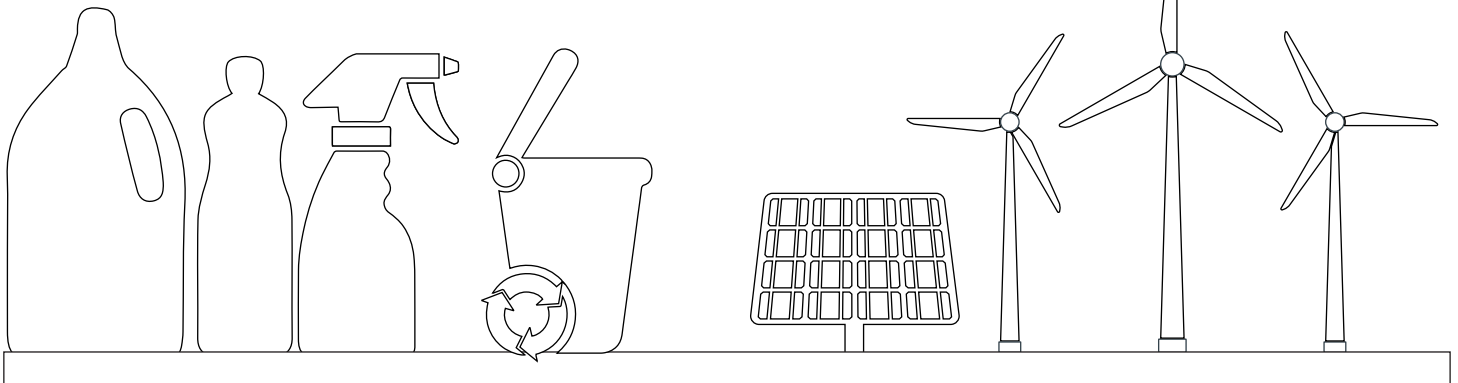
Apple is committed to reducing the environmental impact of the chemicals used in our products. We are working with our suppliers to ensure that they are using safer, greener chemicals. This includes working with our suppliers to reduce the use of hazardous materials, improve their energy efficiency, and reduce their waste. We also work with our suppliers to ensure that they are using sustainable materials and processes. This includes working with our suppliers to reduce their carbon footprint, improve their energy efficiency, and reduce their waste.

## Zero Waste to Landfill

Apple is committed to reducing the environmental impact of our products. We are working with our suppliers to ensure that they are using sustainable materials and processes. This includes working with our suppliers to reduce their carbon footprint, improve their energy efficiency, and reduce their waste. We also work with our suppliers to ensure that they are using sustainable materials and processes. This includes working with our suppliers to reduce their carbon footprint, improve their energy efficiency, and reduce their waste.

## Supplier energy use

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# 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.

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.

**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

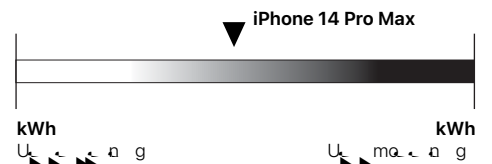
iPhone 14 Pro uses 40% less energy during charging and 12% less energy during use.<sup>12</sup>

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, the U.S. Department of Energy's Energy Conservation Standards for Cell Phones<sup>12</sup> iPhone 14 Pro consumes 40% less energy than the previous generation.

U.S. Department of Energy standard



## Designed to last

iPhone 14 Pro features a Ceramic Shield front cover that is 108 times more durable than previous generations.<sup>13</sup>

## Made with smarter chemistry

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.



# Recover

Run our product recovery and innovation program to help you recover and reuse materials.

We're proud to be a leader in product recovery and reuse. Our goal is to reduce the amount of waste we generate and increase the amount of material we reuse. We've achieved this by investing in advanced recycling technologies and by working with our suppliers to ensure that our products are made from recycled materials. We're committed to making a positive impact on the environment and to creating a sustainable future for all.

## iPhone recycling

We're proud to be a leader in iPhone recycling. Our goal is to reduce the amount of waste we generate and increase the amount of material we reuse. We've achieved this by investing in advanced recycling technologies and by working with our suppliers to ensure that our products are made from recycled materials. We're committed to making a positive impact on the environment and to creating a sustainable future for all.

[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 q con o an con ibu o a c bor mi ion s dd i unc in b d q ing d i d, oc -b d n ion ra n mod wi s cific, ra o e m in ing e ra n af 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 i od 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 ra 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/nionra/nw](https://www.com/nionra/nw)

**Recycled materials:** R c cing m k b e u 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 . - ' w w focu on ou c e c i fi d fo e i m n g ra 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 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 a 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 ra n nd d nd s e s o i e i . E s 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 . - ' w w focu on ou c e c i fi d fo e i m n g ra n s, c ic .

<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 108 .1 o U 11 nd i e d u c on e E c onic oduc En ion ra n e e ra n o o ( E E ) R g j . E E e g e con u d i s nd mobi s o a b e d o r n i on ra n e qui ra n in e e nd d . o ma info m ion i [www.ea](http://www.ea) .

<sup>3</sup> G e n ou g e mi ion w e c cu e du ing if c e e ra n ra 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 of id n i d in n um ung e n nd god (G) cob nd i um r e nd fia in ou u s c in . i d s r 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 n um n ig nd ga n nc 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 ik 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 n oo e u e ub nc g in 18 diff e n c i i . o m a info m ion i j [www.g.n.g.e.nc.e.mic.g](http://www.g.n.g.e.nc.e.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 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 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 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 nc e fo m nc i b e d on e U.S. D s r n n of Ea g e d [Ea g Con i on S nd d fo C g e n a ENERGY S R do no c if m s oa d ic](#).
- Ea g e ff i e nc e m e a g e ff i e nc 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 nc 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 nc e n e e d 1 e c n 7 e c n 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 nc 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 nc e no e m a n condi ion nd e i nc 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 non 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 go n r 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 oga 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 ogo 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 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 ko 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 owa d b e U.S. En ion r n a e c ion g nc . e s , oduc nd com n n r a r n i oa d e e in m b d m k of e i e e c k com r i e .