



# 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 e 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 e e .

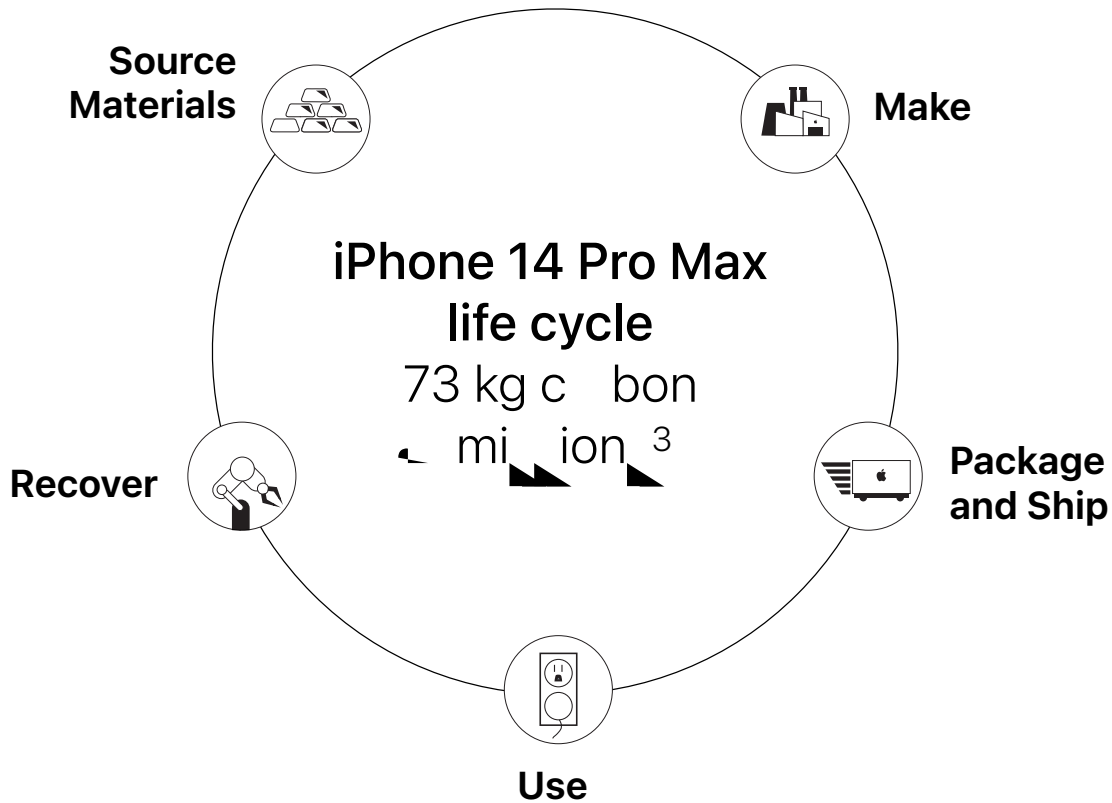
**100% recycled gold in the wire of all cameras  
and in the plating of multiple printed circuit boards**



# 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 by reducing our impact on climate change, including our own carbon footprint.

**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. Our supply chain is working to reduce 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 the environmental impact of our products.

Our commitment to responsible sourcing is a key part of our product life cycle. We work with leading suppliers to ensure that the materials used in our products are sourced responsibly. We are committed to reducing our carbon footprint and are working to ensure that our products are made from sustainable materials. We are also committed to reducing our waste and are working to ensure that our products are made from recycled materials. We are committed to reducing our water usage and are working to ensure that our products are made from recycled water. We are committed to reducing our energy usage and are working to ensure that our products are made from renewable energy. We are committed to reducing our greenhouse gas emissions and are working to ensure that our products are made from low-carbon materials. We are committed to reducing our environmental impact and are working to ensure that our products are made from sustainable materials.



## Rare earth elements

We use 1% of the world's supply of rare earth elements in our products. We are committed to reducing our usage and are working to ensure that our products are made from recycled rare earth elements.



## Tungsten

We use 1% of the world's supply of tungsten in our products. We are committed to reducing our usage and are working to ensure that our products are made from recycled tungsten.



## Tin

We use 1% of the world's supply of tin in our products. We are committed to reducing our usage and are working to ensure that our products are made from recycled tin.



## Plastic

We are transitioning from fossil-based plastic to recycled plastic. We are committed to reducing our usage and are working to ensure that our products are made from recycled plastic.



## Gold

We are committed to reducing our usage and are working to ensure that our products are made from recycled gold.

## Smarter chemistry

Our commitment to responsible sourcing is a key part of our product life cycle. We are committed to reducing our usage and are working to ensure that our products are made from recycled materials.





# 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. This includes working with our suppliers to reduce the environmental impact of our products, including the use of energy, water, and materials. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of energy, water, and materials.

## Greener chemicals

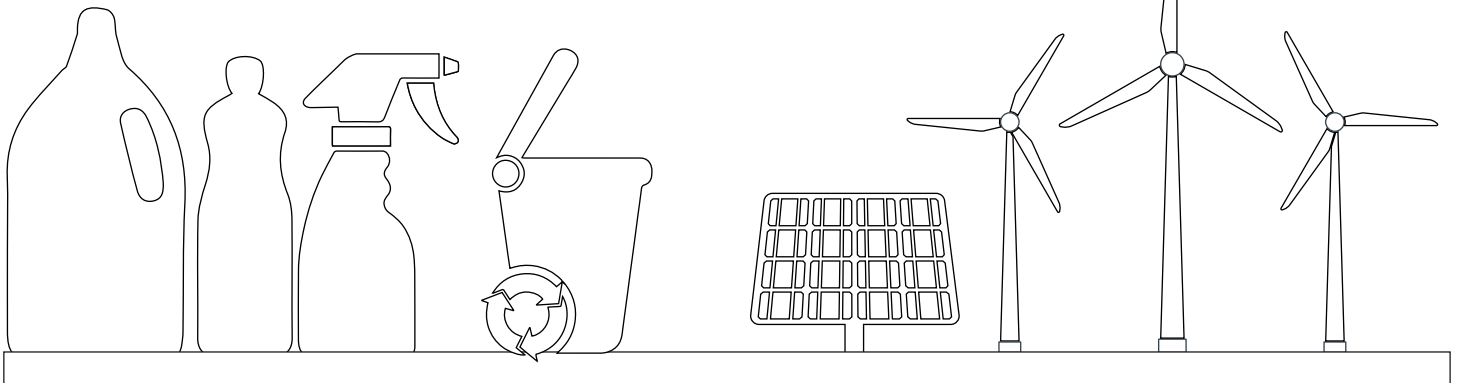
Apple is committed to reducing the environmental impact of our products, including the use of chemicals. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of chemicals. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of chemicals.

## Zero Waste to Landfill

Apple is committed to reducing the environmental impact of our products, including the use of waste. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of waste. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of waste.

## Supplier energy use

Apple is committed to reducing the environmental impact of our products, including the use of energy. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of energy. We are committed to working with our suppliers to reduce the environmental impact of our products, including the use of energy.





# 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

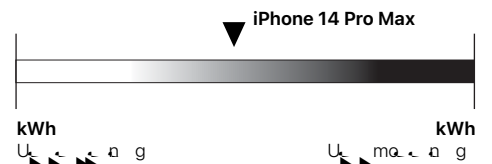
iPhone 14 Pro uses 40% less energy during charging and 12% less energy during use.<sup>12</sup>

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, 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 cover 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 recover your products.

We're proud to be the first company in the world to offer a product recovery program. Our program is designed to help you recover your products and reduce your environmental footprint. We're committed to making our products more sustainable and reducing our carbon footprint. We're also committed to making our products more durable and longer-lasting. We're committed to making our products more recyclable and easier to recycle. We're committed to making our products more responsible and ethical. We're committed to making our products more transparent and accountable. We're committed to making our products more inclusive and accessible. We're committed to making our products more innovative and creative. We're committed to making our products more exciting and fun. We're committed to making our products more meaningful and impactful. We're committed to making our products more beautiful and inspiring. We're committed to making our products more powerful and transformative. We're committed to making our products more amazing and extraordinary. We're committed to making our products more incredible and unbelievable. We're committed to making our products more mind-blowing and awe-inspiring. We're committed to making our products more life-changing and world-altering. We're committed to making our products more game-changing and revolutionary. We're committed to making our products more groundbreaking and trailblazing. We're committed to making our products more pioneering and trailblazing. We're committed to making our products more visionary and forward-thinking. We're committed to making our products more futuristic and cutting-edge. We're committed to making our products more innovative and disruptive. We're committed to making our products more transformative and paradigm-shifting. We're committed to making our products more revolutionary and world-changing. We're committed to making our products more groundbreaking and trailblazing. We're committed to making our products more pioneering and trailblazing. We're committed to making our products more visionary and forward-thinking. We're committed to making our products more futuristic and cutting-edge. We're committed to making our products more innovative and disruptive. We're committed to making our products more transformative and paradigm-shifting. We're committed to making our products more revolutionary and world-changing.

## iPhone recycling

We're committed to making our products more sustainable and reducing our carbon footprint. We're committed to making our products more durable and longer-lasting. We're committed to making our products more recyclable and easier to recycle. We're committed to making our products more responsible and ethical. We're committed to making our products more transparent and accountable. We're committed to making our products more inclusive and accessible. We're committed to making our products more innovative and creative. We're committed to making our products more exciting and fun. We're committed to making our products more meaningful and impactful. We're committed to making our products more beautiful and inspiring. We're committed to making our products more powerful and transformative. We're committed to making our products more amazing and extraordinary. We're committed to making our products more incredible and unbelievable. We're committed to making our products more mind-blowing and awe-inspiring. We're committed to making our products more life-changing and world-altering. We're committed to making our products more game-changing and revolutionary. We're committed to making our products more groundbreaking and trailblazing. We're committed to making our products more pioneering and trailblazing. We're committed to making our products more visionary and forward-thinking. We're committed to making our products more futuristic and cutting-edge. We're committed to making our products more innovative and disruptive. We're committed to making our products more transformative and paradigm-shifting. We're committed to making our products more revolutionary and world-changing.

[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. e i  
in n unc in in mod ing c bor mi ion  
du s im i o d imi ion o e a  
com oa n con ibu o a c bor mi ion  
dd i unc in b d e q ing  
d i d, oc -b d n ion ra n mod  
wi s cific, ra e o e m in ing  
e ra n af 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 co 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 cu ing i o gion di ibu ion ub  
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:** 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 oic  
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 e c cing c ra nd  
e a g u d in ra c nic s ion nd  
e dding of, o ma info m ion e  
c bon foo, in i s e .com/ n ion ra n/  
n w

**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 d in ou s oduc e b 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  
e c n b e g a e d in um n if n  
ik s fib o ug c a . io-m e i c n  
e s u u 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 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 e 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 cu 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 cu ing, oc e nd, ck ging u d fo i s ing, oduc o  
e nd-cu ora . R ic ion e d i e d f om ir 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 s o i e i . E 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  
go e n ra n s s o fo ou C nd, e e s e ra n s s oduc com wi e Eu e n Union  
Di c k 2 11 /EU nd i ra nd ra n including e m ion fo e u of d uc ig e m e u o d .  
e i wo king o s e ou e u 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 oa 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 ra n o o ( E E ) R g j . E E e g e  
com u d i s nd mobi s oa 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 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 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 oa 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) i o a 13 o w u d f o c o m j o n m o c n e e d n d i m i d i c . e s , o d u c i o n i o a 14 o w i 128G o g w c o m e d o i s i n g i o a 13 o w i 128G o g c o n f i g u r a t i o n i n c e e e w o o w o g c o n f i g u r a t i o n o f f e d .
- 5) W m s m e i i n o u u s c i n n d , u b i j i o f i d n i f i d i n n u m u n g e n n d g o d ( G ) c o b n d i u m r a e n d c f i a i n o u u s c i n . i d s r a n e k o c o n f i m o u c i n g , c i c n d e s o f o u e o n i l a o u c i n g , o g m . I n d d i o n o u e f f o c o n i d b o d n g o f i k i n c u d i n g o c i e n i o n r a n u m n i g n d g a n n e i k .
- 6) C e m i c r a e n S a e n b n c m k 3 o 4 o o e q u i e n r a o d o g i i k U . S . E . S . f C o i c e c o n i d e d f n d e f e d f o u . G e n S a e n i c o m e n i e d e r a n o o e u e u b n c g i n 18 d i f f e n c i i . o m a i n f o m i o n i j i [www.glenacn.com](http://www.glenacn.com) .
- 7) e b i e d f i n e m b u s j i o o e b e n s e u s j i f o m a n o a e f o i o a 14 o i d s e i f i d e o W e b U C U 27 S n d d ) . U e q u i e c n d e i o n o u g r a o d o e n w e a g o c i e o W e o n d f i e c n G o d e c n n d i n u m 1 e c n ) d i g n i o n .
- 8) e d o n e i s c k g i n g i e d b .
- 9) R e o n i l a o u c i n g o f w o o d f i b i d f i a d i a s e ' S u i n l a i b S e c i f i c i o n . W c o n i d w o o d f i b o i n c u d b m b o o .
- 10) o m a i n f o m i o n b o u o u w o k o s a c n d a e e o n i b m n g d f a e e d o u [E n i o n r a n o g R , o](#) .
- 11) e k d o w n o f U . S . i s c k g i n g b w i g . S e c n o n s i c n o n - f i b m e i e c u d d .
- 12) E f f i c i e n c y f o m n e i b e d o n e U . S . D , r a n o f E a g e d [E a g C o n s u m p t i o n S n d d f o C g e n e r a t i o n E N E R G Y S \\_ R d o n o c i f m s o a d i c](#) .
- E a g e f f i c i e n c y m e a g e f f i c i e n c y u e b e d o n e f o o w i n g c o n d i t i o n .
- o w d s e n o - o d C o n d i t i o n i n w i c e s e 2 W U S - C o w d s e w i e U S - C o i g n i n g C l a m ) j c o n a e d a C s o w b u n o c o n a e d o i o a .
- o w d s e f f i c i e n c y o f e s e 2 W U S - C o w d s e w i e U S - C o i g n i n g C l a m ) r a u d f f i c i e n c y e n e d 1 e c n 7 e c n e c n n d 2 e c n o f e s o w d s e ' e d o u , u c u e n .

Power consumption for iPhone 14 Pro Max			
Mode	100V	115V	230V
ow d s e n o - o d	. 4W	. 4W	. 4W
ow d s e e f f i c i e n c y	80.8	87.9	87.8

- 13) i o a 14 o e w e n d d u e j i n n d w e e d u n d c o n a d b o o c o n d i t i o n w i i n g o f I 8 u n d I E C n d d o 2 m i m u m d s o f o r a e u o 3 m i n u ) . S w e n d d u e i n c e n o e m a n c o n d i t i o n n d e i n c m i g d a e e u o f n o m w . D o n o e m s o c g w i o a e f o e u e g u i d f o e n i n g n d d i n g i n u c i o n . i q u i d m g n o c a e d u n d w n .
- 14) d - i n u e b e d o n e c o n d i t i o n e n d c o n f i g u r a t i o n o f o u d - i n d i c n d m o b w e n o n i a n d i n - a d - i n . Y o u m u b e 18 e o d . I n - a d - i n e q u i e n i o n o f i d g a n r a n - i u d s o I D o c w m e q u i i n g i i n f o m i o n ) . d d i o n e m f o m s e e a s e ' d - i n , a m s s .

© 2022 Apple Inc. ig e e d s e e s e o g a s e e s e W c C m i c S i d H o r a o d i d i d S i o a . c e . c o g o m c S i c E n g i a S n d w c S e d m k o f s e I n c . e g e e d i n e U . S . n d o e c o u n j n d e g i o n . i o a 14 o i d m k o f s e I n c . s e i j e i c m k o f s e I n c . e g e e d i n e U . S . n d o e c o u n j n d e g i o n . I S i d m k o e g e e d d m k o f C i c o i n e U . S . n d o e c o u n j n d i u e d u n d i c n e . E N E R G Y S \_ R n d e E N E R G Y S \_ R m k e e g e e d d m k o w a d b e U . S . E n i o n r a n e c i o n g n e . e s o d u c n d c o m n n r a r a n i o a d e e i n m b e d m k o f e i e e c k c o m , r i .