



# Product Environmental Report

iPhone 14 Pro

December 2022

## Made with better materials

100% 100%

Recycled gold in the wire of cameras and recycled copper in the printed circuit boards

## Energy efficient

46%

Energy consumption in the U.S. is 46% lower than the average for smartphones

## Responsible packaging

100% 95%

100% of wood fiber comes from recycled content and 95% of recycled fiber-based duct tape is made from recycled content

## Tackling climate change

100%

We committed to joining our net-zero emissions goal by 2030

## Smarter chemistry

- Lead-free
- Copper-free
- Mercury-free
- Chromium-free



## Apple Trade In

Round-trip shipping and in-store pickup are free

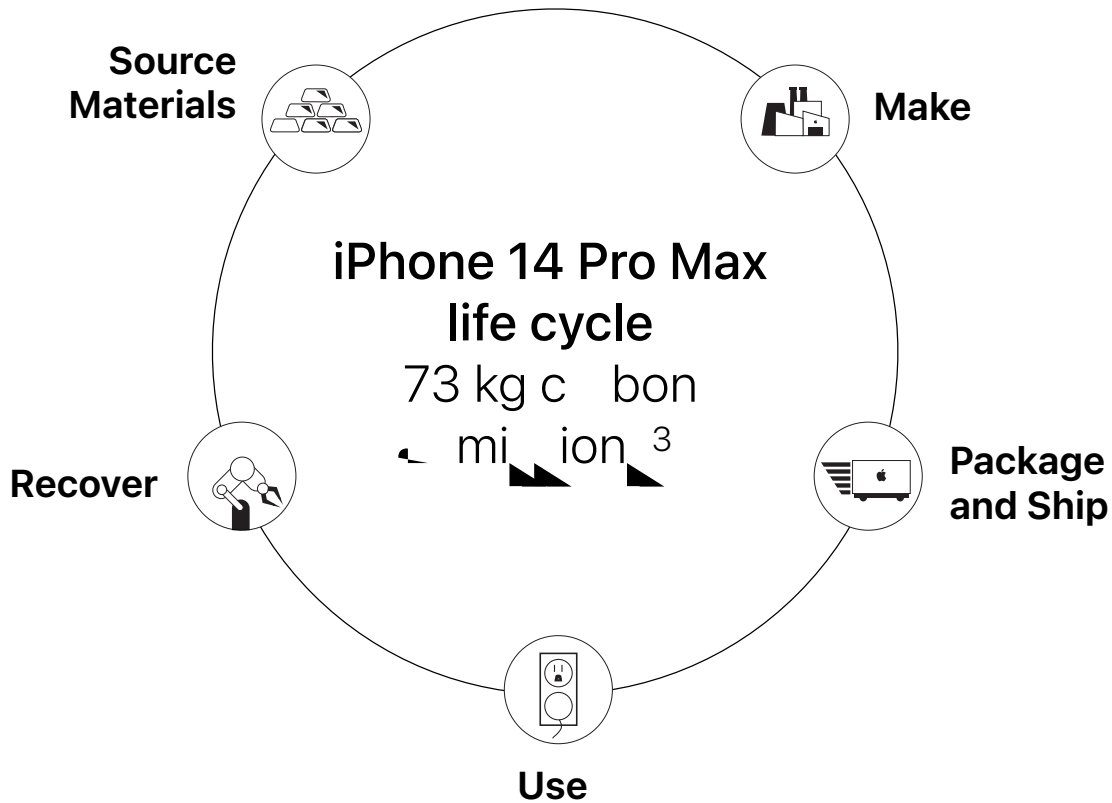
# 100% recycled gold in the wire of all cameras and in the plating of multiple printed circuit boards



# 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 25% by 2030. We are committed to reducing our carbon footprint by 25% by 2030. We are committed to reducing our carbon footprint by 25% by 2030.

## iPhone 14 Pro Max life cycle carbon emissions

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



# Source Materials

The world of consumer electronics is made with 100 different kinds of materials.

Our company is committed to working with our suppliers to ensure that our products are made with responsible and sustainable materials. We are committed to reducing our environmental footprint and to using materials that are sourced responsibly. We are committed to using materials that are sourced responsibly. We are committed to using materials that are sourced responsibly.



## Rare earth elements

We use 1% of the world's supply of rare earth elements in our products. We use 1% of the world's supply of rare earth elements in our products.



## Tungsten

We use 1% of the world's supply of tungsten in our products. We use 1% of the world's supply of tungsten in our products.



## Tin

We use 1% of the world's supply of tin in our products. We use 1% of the world's supply of tin in our products.



## Plastic

We use 1% of the world's supply of plastic in our products. We use 1% of the world's supply of plastic in our products.



## Gold

We use 1% of the world's supply of gold in our products. We use 1% of the world's supply of gold in our products.

## Smarter chemistry

We are committed to using smarter chemistry to reduce our environmental footprint. We are committed to using smarter chemistry to reduce our environmental footprint.





# Make

Apple's Supplier Code of Conduct is designed to ensure the production of our products is done in a way that respects the environment and the well-being of our suppliers' employees and the communities in which they operate.

We work closely with our suppliers to identify and address environmental and social risks and ensure that our products are produced in a way that respects the environment and the well-being of our suppliers' employees and the communities in which they operate. We work closely with our suppliers to identify and address environmental and social risks and ensure that our products are produced in a way that respects the environment and the well-being of our suppliers' employees and the communities in which they operate.

## Greener chemicals

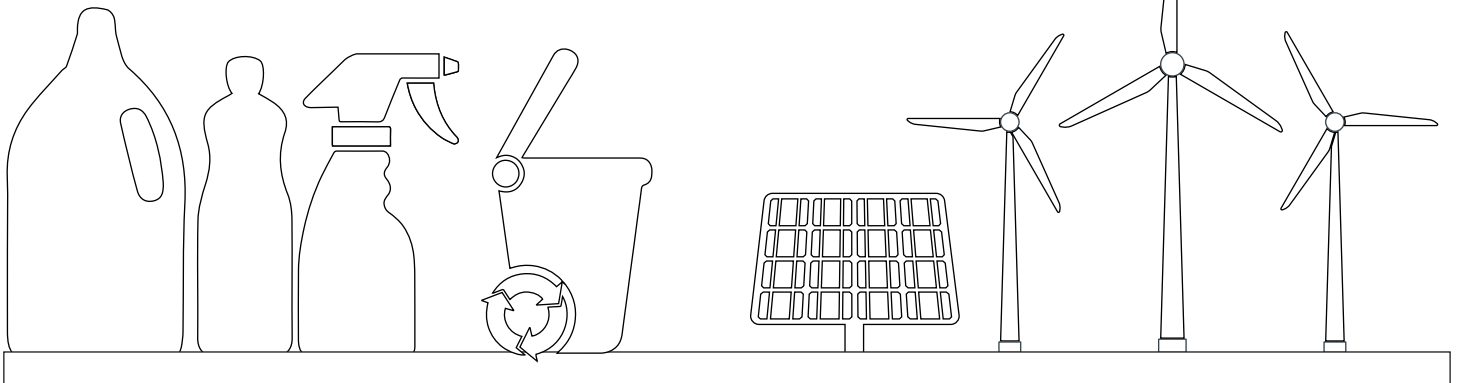
Apple's Supplier Code of Conduct requires suppliers to use safer chemicals in their manufacturing processes. Apple is committed to reducing the use of hazardous substances and promoting the use of safer alternatives.

## Zero Waste to Landfill

Apple's Supplier Code of Conduct requires suppliers to achieve zero waste to landfill. This means that all waste generated by suppliers must be recycled, reused, or otherwise managed in a way that does not result in waste being sent to a landfill.

## Supplier energy use

Apple's Supplier Code of Conduct requires suppliers to reduce their energy consumption. Apple is committed to reducing the carbon footprint of our products and promoting the use of renewable 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.





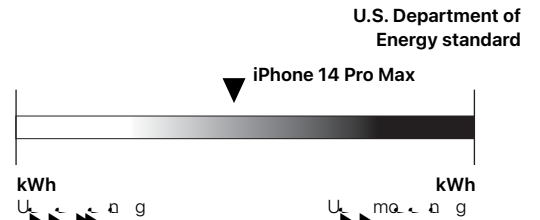
# Use

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, with up to 29 hours of video playback. And with the new 5-core A16 Bionic chip, iPhone 14 Pro is designed to last longer, with up to 29 hours of video playback.

## 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.



## Designed to last

iPhone 14 Pro features a Ceramic Shield front cover, which is made of a new type of glass that is 4x 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, with up to 29 hours of video playback.





# Recover

Run our product recovery and innovation program to help you recover your products.

We're committed to helping you recover your products. We've created a program that allows you to return your products to us for recycling. This program is designed to help you reduce your environmental footprint and improve your bottom line. We'll take care of everything from collection to recycling, so you can focus on your business.

## iPhone recycling

With our iPhone recycling program, you can easily return your old iPhones to us for recycling. We'll take care of everything from collection to recycling, so you can focus on your business.

[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 n c 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 con ma 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 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 r nd 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/n/w](https://www.com/nionra/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 . - ' 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 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 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 e s o i e i . E s 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 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.e.d](http://www.e.d) .

<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) 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 e f i a i n o u u s c i n . i d s r a n e 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 a 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 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 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 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 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 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 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 a s e ' d - i n , a m s s .

© 2022 Apple Inc. ig e e d s e e o g a 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 i 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 i 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 i 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 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 p a i .