



# Product Environmental Report

iPhone 14 Pro

December 2022

## Made with better materials

100% 100%

Recycled gold in the wire of camera lenses and recycled copper in the main board

## Tackling climate change

100%

We committed to joining our net-zero manufacturing supply chain by 2030

## Energy efficient

46%

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



## Smarter chemistry

- Nickel
- Copper
- Ominidirectional
- Carbon
- Titanium

## Responsible packaging

100% 95%

100% of wood fiber comes from responsibly managed forests. 95% of recycled fiber-based packaging is made from recycled materials

## Apple Trade In

Round-trip shipping and in-store pickup are free

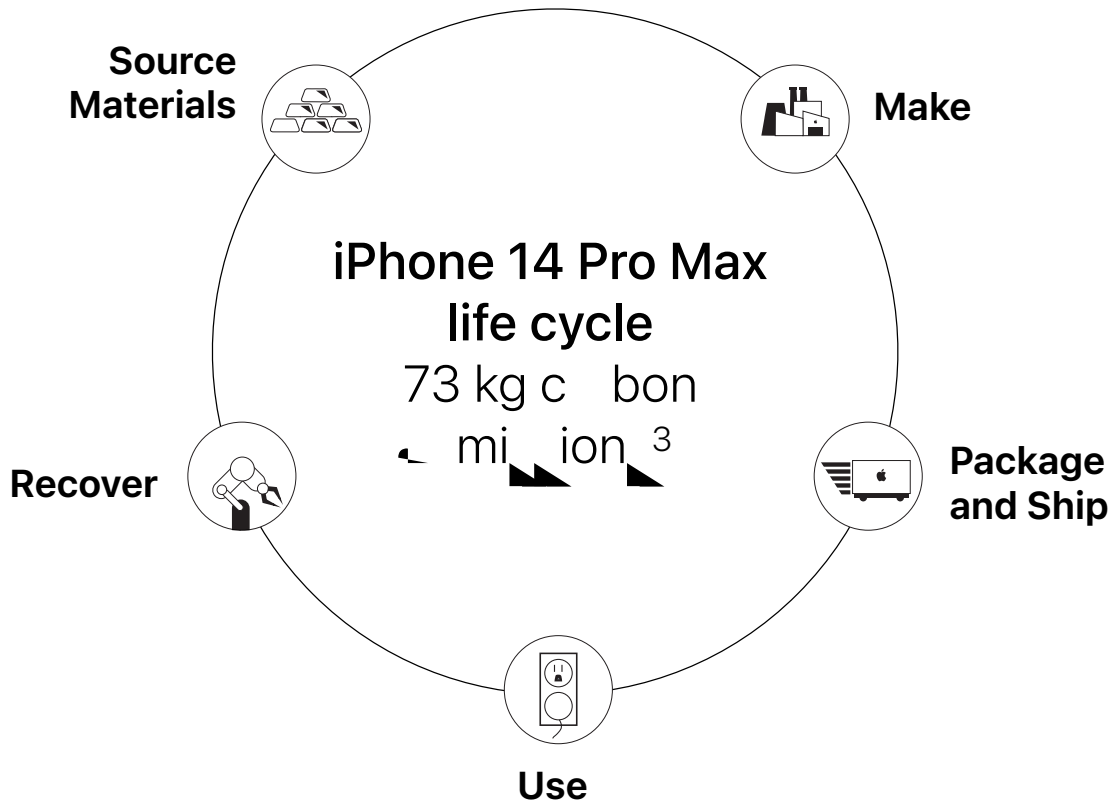
### 100% recycled gold in the wire of all cameras and in the plating of multiple printed circuit boards



# 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 working with our suppliers to reduce their carbon footprint. We are committed to reducing our carbon footprint in all areas of our business, including our products, our operations, and our supply chain. We are committed to reducing our carbon footprint by 25% by 2025, and we are committed to achieving net-zero carbon emissions by 2030.

## iPhone 14 Pro Max life cycle carbon emissions

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





# 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.

We work with our suppliers to ensure that they work in a way that respects the environment. We have a number of initiatives in place to ensure that our suppliers are working in a way that respects the environment. These initiatives include the following:

- Supplier energy use
- Supplier water use
- Supplier waste management
- Supplier labor practices
- Supplier human rights
- Supplier anti-corruption
- Supplier information security
- Supplier intellectual property
- Supplier product quality
- Supplier product safety
- Supplier product reliability
- Supplier product performance
- Supplier product innovation
- Supplier product design
- Supplier product development
- Supplier product testing
- Supplier product certification
- Supplier product compliance
- Supplier product documentation
- Supplier product support
- Supplier product training
- Supplier product education
- Supplier product awareness
- Supplier product communication
- Supplier product marketing
- Supplier product sales
- Supplier product distribution
- Supplier product logistics
- Supplier product transportation
- Supplier product storage
- Supplier product handling
- Supplier product packaging
- Supplier product labeling
- Supplier product identification
- Supplier product tracking
- Supplier product monitoring
- Supplier product evaluation
- Supplier product improvement
- Supplier product innovation
- Supplier product development
- Supplier product testing
- Supplier product certification
- Supplier product compliance
- Supplier product documentation
- Supplier product support
- Supplier product training
- Supplier product education
- Supplier product awareness
- Supplier product communication
- Supplier product marketing
- Supplier product sales
- Supplier product distribution
- Supplier product logistics
- Supplier product transportation
- Supplier product storage
- Supplier product handling
- Supplier product packaging
- Supplier product labeling
- Supplier product identification
- Supplier product tracking
- Supplier product monitoring
- Supplier product evaluation
- Supplier product improvement

## Greener chemicals

Apple is committed to using safer chemicals in our products. We have a number of initiatives in place to ensure that our suppliers are using safer chemicals. These initiatives include the following:

- Supplier chemical use
- Supplier chemical safety
- Supplier chemical handling
- Supplier chemical storage
- Supplier chemical disposal
- Supplier chemical transportation
- Supplier chemical packaging
- Supplier chemical labeling
- Supplier chemical identification
- Supplier chemical tracking
- Supplier chemical monitoring
- Supplier chemical evaluation
- Supplier chemical improvement

## Zero Waste to Landfill

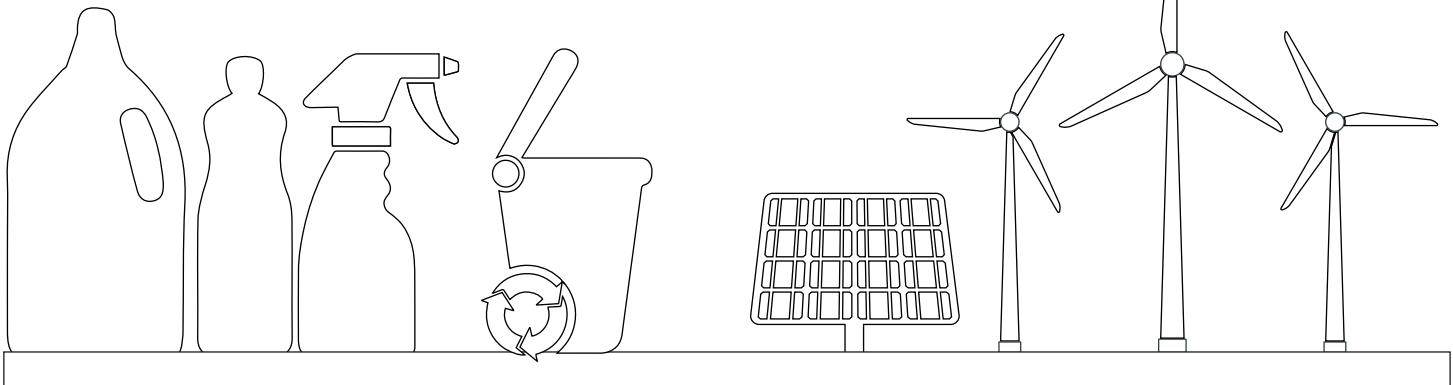
Apple is committed to achieving zero waste to landfill. We have a number of initiatives in place to ensure that our suppliers are achieving zero waste to landfill. These initiatives include the following:

- Supplier waste management
- Supplier waste reduction
- Supplier waste recycling
- Supplier waste reuse
- Supplier waste energy recovery
- Supplier waste transportation
- Supplier waste packaging
- Supplier waste labeling
- Supplier waste identification
- Supplier waste tracking
- Supplier waste monitoring
- Supplier waste evaluation
- Supplier waste improvement

## Supplier energy use

Apple is committed to reducing our supplier energy use. We have a number of initiatives in place to ensure that our suppliers are reducing their energy use. These initiatives include the following:

- Supplier energy efficiency
- Supplier energy conservation
- Supplier energy audits
- Supplier energy management
- Supplier energy reporting
- Supplier energy transportation
- Supplier energy packaging
- Supplier energy labeling
- Supplier energy identification
- Supplier energy tracking
- Supplier energy monitoring
- Supplier energy evaluation
- Supplier energy improvement





# 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 paper and 100% recycled cardboard.

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

**95%**

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

**75%**

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

**100%**

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





# Use

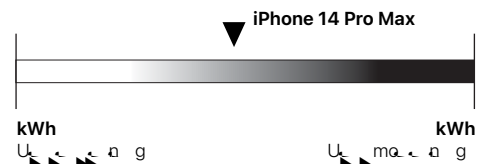
iPhone 14 Pro, use 40% less energy than the previous generation.<sup>12</sup>

With 50% more efficient on-chip neural engines, iPhone 14 Pro uses 40% less energy than the previous generation. With the new Energy Efficient Core, iPhone 14 Pro uses 40% less energy than the previous generation. With the new Energy Efficient Core, iPhone 14 Pro uses 40% less energy than the previous generation. With the new Energy Efficient Core, iPhone 14 Pro uses 40% less energy than the previous generation.

## Energy efficiency

As measured by the U.S. Department of Energy's Energy Conservation Standards, iPhone 14 Pro uses 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, which is the most durable smartphone cover ever, made with a new type of glass.

## Made with smarter chemistry

With a new type of battery, iPhone 14 Pro can hold more power than ever, and it's made with a new type of battery.



# Recover

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

We're proud to be a leader in product recovery and innovation. Our goal is 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 committed to making our products more sustainable and reducing our carbon footprint.

## iPhone recycling

With our new iPhone recycling program, you can now recycle your old iPhone. We'll take care of it for you, so you can focus on what's important. We'll take care of it for you, so you can focus on what's important.

[See Dave in action](#)



# Definitions

**Bio-based plastics:** io-b d, ic m d fom biologic ouc n fom fo i-fu ouc 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 n 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 r n mod wi s cific, ra o e m ining r 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 fom m nuf c u ing i o gion di ibu ion ub e n o of, oduc fom 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 um e 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 fom 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 of fini e ouc b ou cing fom 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 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 d f w fini e ouc . 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 ouc . - ' w w focu on ouc 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 ouc . 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 fom ir 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 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 ouc . - ' w w focu on ouc e c i fi d fo e i m n g r 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 r 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 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 ra 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) 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 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 l 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 e 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 e 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 a 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 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 e w i e U S - C o i g n i n g C l a m ) i 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 e f f i c i e n c y o f e 2 W U S - C o w d 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 n d 2 e c n o f e s o w d e ' e d o u u c u e n .

Power consumption for iPhone 14 Pro Max			
Mode	100V	115V	230V
ow d e n o - o d	. 4W	. 4W	. 4W
ow d 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 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 e a m s s .

© 2022 Apple Inc. ig e e d e s 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 e 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 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 .