



# Product Environmental Report

— 4 8 d g n ion) wi Si i R ma

D. in oduc d  
c ob 18 2 22

## Made with better materials

**80%**

— c e d u minum  
in — 4  
8 d g n ion)  
— m modu

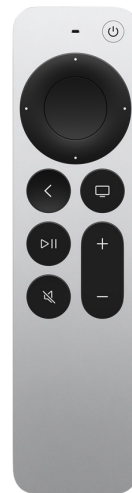
**100%**

— c e d in in  
od of mu i e s i r d  
ci cui bo d

## Energy efficient

**79%**

— e a g con u r a d n  
— ENERGY S R a g  
— f f i a n c e q u i r a n



## Tackling climate change

**100%**

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

## Smarter chemistry<sup>1</sup>

- e c u - 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

## Responsible packaging

**100%**

of e wood fib  
com f om e c e d  
nd e on i a  
ou c

**90%**

o ma of e  
s ck g i n g i  
fib - b e d d u o  
ou wo k e i m i n e  
s i c i n s ck g i n g

## Apple Trade In

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

### Now with recycled gold—a first for Apple TV 4K

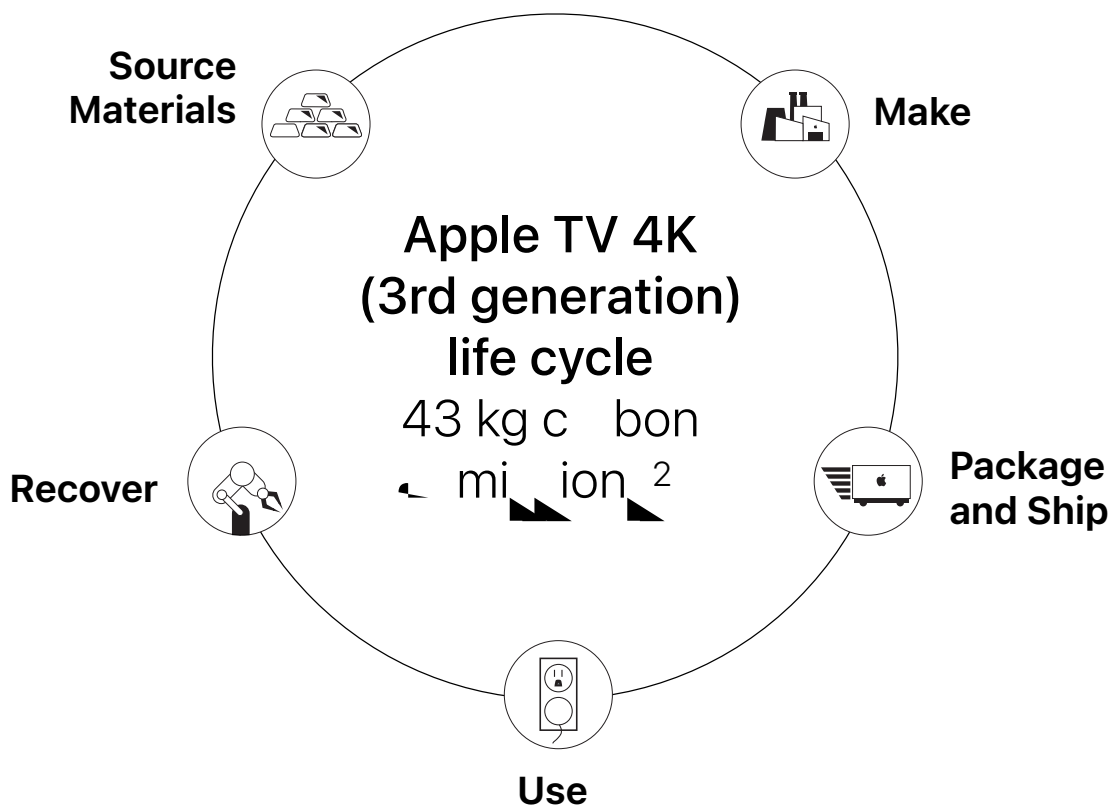
— j e s o i n c u d d c u e n of oduc unc . oduc u ion e b d on U.S. configu ion of s e — 4 8 d g n ion) wi Si i R ma .



# 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, difficult changes to our products, reducing our impact on climate change, and improving our products.

**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 by 20% by 2020, and we are working to reduce our carbon footprint by 50% by 2030. We are also committed to using 100% renewable energy by 2020.

## Apple TV 4K (3rd generation) life cycle carbon emissions

- 62 Production
- 1 Distribution
- 37 Use
- 1 End-of-life recycling

# Source Materials



— 4 8 dg a ion) wi Si i R ma con in c e d uminum god, ic nd in.

o con e im o n e ou c w wok o duc e m e i w u nd im o o d ou c on e c e d o e a w l e m e i in ou, oduc nd w m k i n i on w e m in commi d o e e on ila ou cing of, im m e i . W m, m n m e i o m o e mia ou c nd bi e i e nd d fo ra e nd e fia — 4 e qui 1 e c n of id n i fi d in n um ung e n god cob nd i um ra e nd e fia o, i c i e in i d, u di . 4 W e, oud o b e cogni d wo dwid e d in e e on ila ou cing of mia in ou, oduc . u, oduc d ign o con id e f of o e w o m k u nd e c e o u, oduc e ic ing e u of und d of mfu ub nc . u nd d gob ond w ' e qui d b w o, e c e e nd e e n i on r a n .



**Aluminum**

— 4 8 dg a ion) / e m modu con in 8 e c n e c e d uminum nd e e n c o u of Si i R ma con in 1 e c n c i fi d e c e d uminum.



**Gold**

— 4 8 dg a ion) / e m modu con in 8 e c n e c e d uminum nd e e n c o u of Si i R ma con in 1 e c n c i fi d e c e d uminum.



**Plastic**

W e n i n i oning f om fo i fu b e d, ic o o m d f om e a w l e o e c e d ou c . o — 4 8 dg a ion) wi Si i R ma nia, ic com, o a n con in 3 e c n o m a e c e d cor n .



**Tin**

— 4 8 dg a ion) / e m modu con in 8 e c n e c e d uminum nd e e n c o u of Si i R ma con in 1 e c n c i fi d e c e d uminum.



## Smarter chemistry

— 4 8 dg a ion) i f e of mfu ub nc ik b ium b omin e d f ra e d n C, e nd ra cu 1 nd 1 e c n of e m e i in — 4 8 dg a ion) e c e d b ou R gu e d Sub nc S e cific ion.



# Make

Apple's Supplier Code of Conduct is designed to ensure the ethical sourcing of materials and components used in our products. It is a key part of our commitment to environmental and social responsibility.

We work with our suppliers to identify and address environmental and social risks. This includes working with suppliers to improve their environmental and social performance. We also work with suppliers to ensure that their products are made in a safe and healthy environment. This includes working with suppliers to improve their working conditions and ensure that their workers are treated fairly.

## Greener chemicals

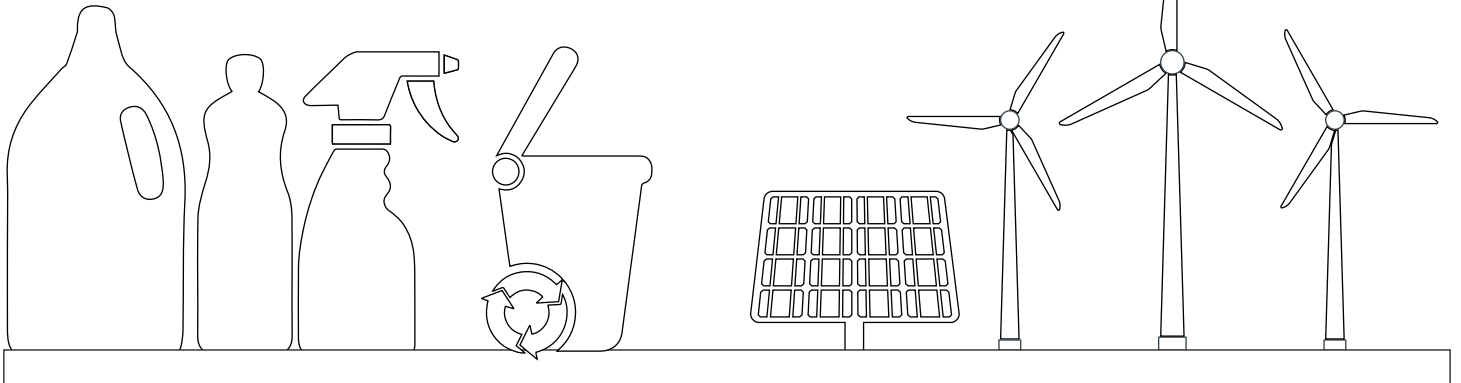
Apple is committed to using safer chemicals in our products. We are working with our suppliers to identify and replace hazardous chemicals with safer alternatives. This includes working with suppliers to use safer solvents and adhesives. We are also working with suppliers to use safer pigments and dyes.

## Zero Waste to Landfill

Apple is committed to achieving zero waste to landfill. We are working with our suppliers to reduce waste and recycle as much as possible. This includes working with suppliers to use recycled materials and to recycle their own waste.

## Supplier energy use

Apple is committed to reducing the carbon footprint of our products. We are working with our suppliers to reduce their energy use and to use renewable energy. This includes working with suppliers to improve their energy efficiency and to use renewable energy sources.





# Package and Ship

Apple TV 4K (3rd generation) packaging does not use any plastic with the exception of the outer cardboard sleeve. The sleeve is made from 100% recycled cardboard.

Apple TV 4K (3rd generation) packaging is made from 100% recycled cardboard. The sleeve is made from 100% recycled cardboard. The sleeve is made from 100% recycled cardboard.

**90%**

of the weight of the packaging is made from recycled cardboard.

**39%**

of the weight of the packaging is made from recycled cardboard.

**100%**

of the weight of the packaging is made from recycled cardboard.





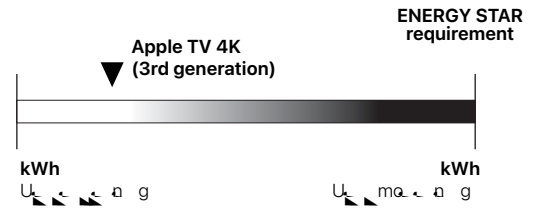
# Use

Apple TV 4K (3rd generation) uses 70% less energy than the previous generation. It's designed to last.

With its energy-efficient design and low-power components, Apple TV 4K (3rd generation) uses 70% less energy than the previous generation. It's designed to last.

## Energy consumption of ENERGY STAR-rated products

Apple TV 4K (3rd generation) is an ENERGY STAR-rated product. It uses 70% less energy than the previous generation. It's designed to last.



## Designed to last

Apple TV 4K (3rd generation) is designed to last. It uses high-quality components and is built to last.

## Made with smarter chemistry

Apple TV 4K (3rd generation) is made with smarter chemistry. It uses advanced materials and processes to reduce its environmental impact.



# Recover

Run our product with... and in new... for...

We... product... from... 'w...  
 und... d... In-i off... cu... or... m... w... o... u... i... o... d... i... c... n... d...  
 cc... oi... e... .E... g... i... d... i... c... n... b... d... d... i... n... f... o... e... d... i... o... n... .S... e... G... i... f... C... d...  
 w... i... c... c... oi... n... d... o... e... d... i... c... n... b... e... c... e... d... f... o... f... e... .<sup>12</sup>W... o... o... f... f... n... d... ,... i... c... i... e...  
 i... n... ,... o... d... u... c... t... k... -... b... c... k... n... d... c... i... n... g... c... a... c... i... o... n... ,... o... g... m... f... o... e... c... n... o... f... e... c... o... u... n... t... y... w... e...  
 w... e... ,... o... d... u... c... t... -... n... d... w... o... d... o... u... c... e... o... i... g... n... d... d... u... e... f... f... o... o... k... e... ,... m... f... u...  
 ,... u... b... n... c... o... u... o... f... o... u... ,... o... d... u... c... t... o... r... m... n... o... u... m... e... i... e... d... f... o... e... c... o... n... d... e... u... .

## Apple Trade In

o... m... a... i... n... f... o... m... i... o... n... o... n... h... o... w... o... u... c... a...  
 o... u... ,... o... d... u... c... t... -... n... d... o... f... i... i...  
[apple.com/trade-in](http://apple.com/trade-in)



# Definitions

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

d i b e d in o ou g e fo ming c i i i k mo j nd mu ic, b ck. G og s ic d i f e n c in e s ow g id mi e b e n c cour d fo e gion e e .

**Carbon footprint:** E im e d m i o n e c cu e d in cco d nc wi guid ia nd e qui ra n e c i f i d b IS 14 4 nd IS 14 44. e e i in e n unc in in mod ing c bor m i o n du s im i o d i m i o n o e q con s on n con ibu o a s s e ' c bor m i o n s s e d d e i unc in b d e q ing d i d s oc b e d n i on r a n mod wi s s e e c i f i c s r a e o e e m in ing e r a n e o f s s e ' c bonfoo s in w e on indu e g d nd um i o n. C cu i o n incud e m i o n fo e fo owing if c e s e con ibu ing o Gob W ming a n i GW 1 e ) in C e qui e n c f co e )

**End-of-life processing:** Incud n e o ion f om c a c i o n ub a c c i n g c r e nd e e a g u d in r a c n i c s s i o n nd e d d i n g o f s o m a i n f o m i o n o n e c bonfoo s in i i s s e . [com/ni on r a n / n w](http://com/ni on r a n / n w)

**Recycled materials:** R c c i n g m k b e u e of fini e ou c b ou c i n g f o m e c a e d e n m i a d m e i . R c e d c o r n c i m f o m e i u e d in o u s o d u c e b e n e i f i d b n i n d e n d n i d s o e c e d c o r n nd d c o n f o m o i s 14 21.

**Renewable materials:** W d fia bio-m e i o e c n b e g a e d i n u m n i f s n i k s e fib o u g c a . i o-m e i c n e s u u e f w fini e ou c . u e n ou g bio-m e i e e b i i o e g o w e e n o w m n g d e o n i b . R a w l a m e i e n e of bio-m e i m n g d i n w e n l a c o n i n o u s o d u c i o n w i o u d s e i n g e e ' e o u c e ' w w f o c u s o n o u c e c i f i d f o e i m n g r a n s c i c

**Supplier Clean Energy Program:** Sinc e e e c i c i u d o m k o u s o d u c i e g con ibu o o ou a c bonfoo s in w l e s i n g o u u s d i b cora m a e a g e f f i a i n nd n i o n o a w e a w l a e a g o u c . W l e c o m m i d o n i j 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 c n e a w l e e c i c i b 2 3 .

**Production:** Incud e e c i o n s o d u c i o n nd n e o i o n of w m e i w e m n u f c u e n e o nd e m b of s nd s o d u c s c k i n g .

**Transport:** Incud i n d e n e o i o n of e fini e d s o d u c nd i o c i e d s c k i n g f o m m n u f c u i n g i o e g i o n d i i b u i o n u b . n e o of s o d u c f o m d i i b u i o n u b a nd c u o r a i m o d e d u i n g e g d i n c b e d o n e g i o n g o g s .

**Use:** s s e u m e e - o f o u e e i o d f o s o w u e b f i o w a b e d o n e s o d u c e . o d u c u e c n i o e b e d o n i o i c c u o r a u e d f o i m i s o d u c . E a g u e i i m u e d i n i o u w f o e m e b m o d i n g

# Endnotes

<sup>1</sup> s s e ' R g u e d Sub n c S e c i f i c i o n d e i b s s e ' e i c i o n o n e u e of e i n e m i c u b n c in m e i i n s s e s o d u c c c o u j m n u f c u i n g s o c e n d s c k i n g u d f o i s i n g s o d u c o s s e ' e n d - c u o r a . R i c i o n e d i k d f o m i r a n i o n w o d e c k e g u o g n a i e c o - b e q u i r a n e n i o n r a n n d d n d s s e s o i a i . E e s s e s o d u c i f e e of . C n d s e e c s f o C s o w c o d i n I n d i i n d f o 2 s o n g C s o w c o d ) n d S o u s a w e e w c o n i n u o e k g a e n r a n s s o f o o u . C n d s e e s c r a n s s e s o d u c c o m s w i e E u a e n U n i o n D e c i k 2 1 1 / E U n d i r a n d r a n i n c u d i n g e m i o n f o e u e o k d u c i g e m e u o d . s s e i w o k i n g o s e o u e u e of e e e m e d u b n c f o a w s o d u c w e e c n i c s o i l a .

<sup>2</sup> G e n o u g e m i o n w e c c u e d u i n g i f c e e r a n r a o d o o g in c c o d n c w i IS 14 4 n d 14 44 n d d n d b e d o n s s e - 4 e d g a i o n ) n d d c o n f i g u i o n w i e 4 G o g . W o f n u d e o u c b o n m o d a e g a w i n f o m i o n e u o u e i m e f o e c b o n f o o s in o f e s e i o u g a i o n s s e - 4 w i S i r m a e n d g a i o n ) w i e 4 G o g c o n f i g u i o n - d a e d f o m e 2 k g C 2 e u b i e d i n i o d u c E n i o n r a n R s o ) o e 1 k g C 2 .

Carbon footprint		
	Apple TV 4K (3rd generation) with Siri Remote	Apple TV 4K (2nd generation) with Siri Remote
e4G	43 kg C e	e1 kg C e
128G	4e kg C e	N/



# Endnotes

3. See 4 (2nd generation) 4G Wi-Fi mac w/ updated configuration mode and nd imi d ic . . . oduc ion . . . 4 (2nd generation) Wi-Fi mac nd dconfigu ion wi 4G o g w com e d o i s ing . . . 4 (2nd generation) Wi-Fi mac nd dconfigu ion wi 4G o g configu ion inc e e e wo ow o g configu ion off e d .
4. W m s m e i in ou u s c in nd s ub i j of id n i f i d in n um ung e n nd go d (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 s c ic nd e s of ou e s on i l a ou cing s og m. In ddi ion ou e ffo con id b o d ng of i k including oci e n i on r a n um n ig nd g a e n n e i k .
5. Mic r a e n S a e n b n c m k 3 o 4 o o e e qui e n r a o d o o g i k U.S. E S f C o i c e con id e d f nd e f e d f o u . G e n S a e n i com e e n i e d e r a n o o e u e ub nc g in 18 diff e n c i i . o m a e i n f o m i o n i i [www.geln.com/microg](http://www.geln.com/microg).
6. e b i e d f i n e m b u s i i o o e e b e n s e u s i f o m a n o a e f a s e 4 (2nd generation) e i d s e f i d e o W e b U C U 27 S nd d). U e qui e e c n d i ion ou g r a o d o e n w e a a g o c i e o W e o nd f i e e 4 e c n G o d e c n nd i n u m 1 e c n) d i g n i o n . N a i c i m d o n o s o e S i i R m a e .
7. e d o n e i s c k g i n g i s d b s e .
8. R o n i l a ou cing of wood fib i d fia d i n s e e ' S u i n l a i b S e c i f i c i o n . W con id wood fib o i n c u d b m b o o .
9. o m a e i n f o m i o n b o u o u w o k o s a e c n d a e e s on i b m n g d f a s e e d o u [Enionran.org/R,o](http://Enionran.org/R,o) .
10. e k d o w n of 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 .
11. E a g c o n u m s i o n n d a g e f f i c i n c u e b e d o n e E N E R G Y S \_ R o g m R q u i r a n f o S - a e i n c l u d i n g e m e a g o w n c f a s e 4 w i S i i R m a e . o m a e i n f o m i o n i i [www.agg.go](http://www.agg.go) . E N E R G Y S \_ R n d e E N E R G Y S \_ R m k e e g j e d d m k o w a d b e U.S. E n i o n r a n a c i o n g n c e a g u u r a W i - i c o n a c i o n .
12. e s / A l w o k n d b o w s o w e i e r e d u o m i c e 1 . m i n u e o f i n c i i d f u ) e c i n g e s . N o w f o m s e 4 w i S i i R m a e C o n o C r a r a n u o b s e i n g e o w b u o n o n e e m a e . e d c i e a w o k s o e m a s o w .
13. S e m i n g 4 m o d j C o n d i o n i n w i c 4 m o d j e s e d o n s e 4 w i S i i R m a e f o m s e 4 s s .
14. S e m i n g 4 H D R m o d j C o n d i o n i n w i c 4 H D R m o d j e s e d o n s e 4 w i S i i R m a e f o m s s e s s .
15. o w u s e f f i c i n c e g o f e s o w u s e r a u d f f i c i n c w e n e d 1 e c n e c n nd 2 e c n o f e s o w u s e e d o u s u c u e n .

Power consumption for Apple TV 4K (3rd generation) with Siri Remote			
Mode	100V	115V	230V
Se s / A l w o k S n d b	.48W	.49W	.52W
S e m i n g 4 o d j	2.3 W	2.3 W	2.3 W
S e m i n g 4 H D R o d j	2.36W	2.31W	2.46W
o w S u s E f f i c i n c	88.1	88.3	87.6

12. d - i n u b e d o n e c o n d i o n e n d c o n f i g u 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 s e n i o n o f i d g a n r a n - i u d , o o I D p 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 o s e e d - i n s a m s s .

© 2 2 2 2 I n c . i g e e d s e e e s e o g a s e s s e W c H o r a o d i d i d S i o a e c e c o g o m c S S i i R m a e S n d w c S e d m k o f s e I n c . e g j e d i n e U.S. n d o e c o u n j n d e g i o n s e 4 i d m k o f s e I n c . s e a i e i c m k o f s e I n c . e g j e d i n e U.S. n d o e c o u n j n d e g i o n . E N E R G Y S \_ R n d e E N E R G Y S \_ R m k e e g j e d d m k o w a d b e U.S. E n i o n r a n a c i o n g n c . e s o d u c n d c o m s n n r a m n i o a d e e i n m b d m k o f e i e e c k c o m s a i .