



Product Environmental Report

(i.d.i.g.a. ion)

December 2022

Made with better materials

100% 100%

100% recycled aluminum in enclosure
100% recycled rPET in enclosure

Energy efficient

56%

56% energy consumption reduction
ENERGY STAR® design
efficiency qualification



Tackling climate change

100%

100% committed to joining our net-zero manufacturing supply chain by 2030

Smarter chemistry¹

- 100% nickel-free design
- 100% copper-free
- 100% rosin-free solder
- 100% C-free
- 100% lead-free

Responsible packaging

100% 97%

100% of wood fiber comes from certified sustainable sources
97% of packaging fiber-based due to our work on recycled packaging

Apple Trade In

Round-trip shipping included in our trade-in program

Enclosure made with 100% recycled aluminum

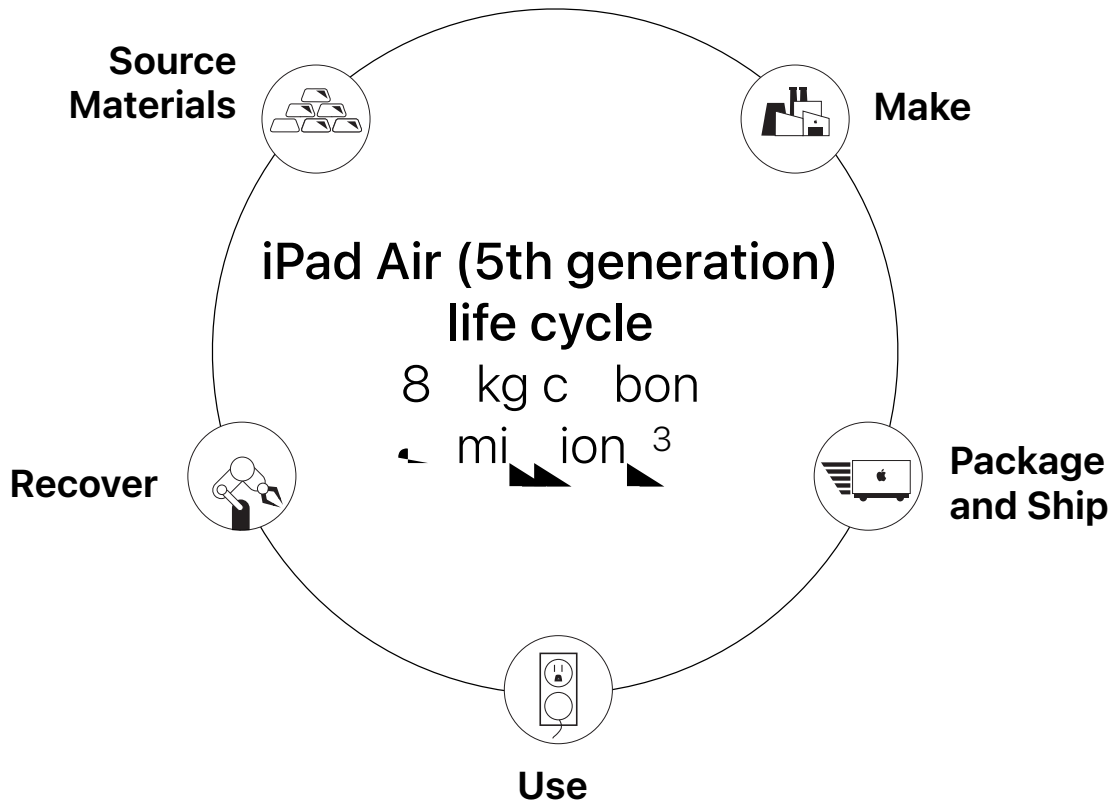
1. This report includes data on the enclosure of the product (i.d.i.g.a. ion).



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, including our commitment to using recycled materials.

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 a greener product, with a lower carbon footprint. We are also working on making our products more sustainable. We are committed to using recycled materials, and we are working on making our products more sustainable. We are committed to using recycled materials, and we are working on making our products more sustainable.

iPad Air (5th generation) life cycle carbon emissions

- 70% Production
- 7% Distribution
- 14% Use
- 9% End-of-life recycling



Source Materials

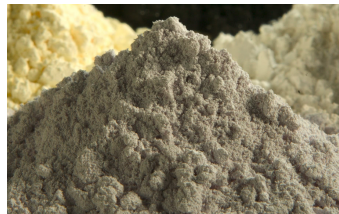
Aluminum is a key material used in the iPad Air (5th generation).

Aluminum is a key material used in the iPad Air (5th generation). It is a lightweight, durable metal that is also highly recyclable. The iPad Air (5th generation) contains approximately 10% aluminum by weight. The aluminum used in the iPad Air (5th generation) is sourced from a responsible source. The iPad Air (5th generation) is made from aluminum, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from aluminum, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from aluminum, which is a key material used in the iPad Air (5th generation).



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Rare earth elements

Rare earth elements are a group of 17 elements that are essential for many modern technologies. They are used in a variety of applications, including magnets, lasers, and catalysts. The iPad Air (5th generation) contains a small amount of rare earth elements. The iPad Air (5th generation) is made from rare earth elements, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from rare earth elements, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from rare earth elements, which is a key material used in the iPad Air (5th generation).



Plastic

Plastic is a key material used in the iPad Air (5th generation). It is a lightweight, durable material that is also highly recyclable. The iPad Air (5th generation) contains approximately 10% plastic by weight. The plastic used in the iPad Air (5th generation) is sourced from a responsible source. The iPad Air (5th generation) is made from plastic, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from plastic, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from plastic, which is a key material used in the iPad Air (5th generation).



Tin

Tin is a key material used in the iPad Air (5th generation). It is a lightweight, durable metal that is also highly recyclable. The iPad Air (5th generation) contains approximately 10% tin by weight. The tin used in the iPad Air (5th generation) is sourced from a responsible source. The iPad Air (5th generation) is made from tin, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from tin, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from tin, which is a key material used in the iPad Air (5th generation).



Smarter chemistry

Smarter chemistry is a key material used in the iPad Air (5th generation). It is a lightweight, durable material that is also highly recyclable. The iPad Air (5th generation) contains approximately 10% smarter chemistry by weight. The smarter chemistry used in the iPad Air (5th generation) is sourced from a responsible source. The iPad Air (5th generation) is made from smarter chemistry, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from smarter chemistry, which is a key material used in the iPad Air (5th generation). The iPad Air (5th generation) is made from smarter chemistry, which is a key material used in the iPad Air (5th generation).



Make

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

We work with our suppliers to identify and work to reduce the environmental impact of our products. Our suppliers are required to follow the Apple Supplier Code of Conduct, which includes the following requirements:

Greener chemicals

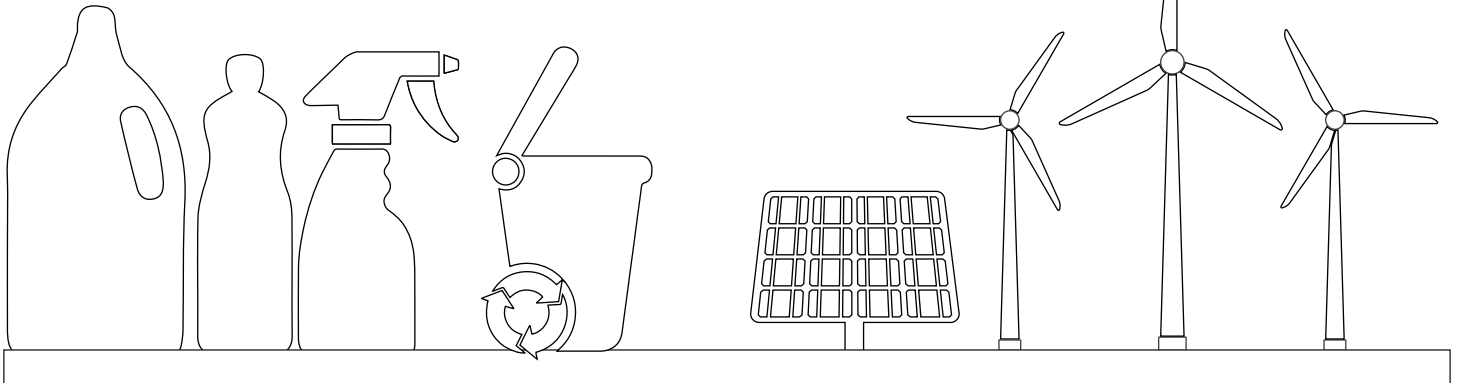
Apple is committed to reducing the use of hazardous chemicals in our products. We are working with our suppliers to identify and eliminate the use of hazardous chemicals in our products. We are also working with our suppliers to identify and eliminate the use of hazardous chemicals in our products.

Zero Waste to Landfill

Apple is committed to reducing the amount of waste sent to landfill. We are working with our suppliers to identify and eliminate the use of hazardous chemicals in our products. We are also working with our suppliers to identify and eliminate the use of hazardous chemicals in our products.

Supplier energy use

Apple is committed to reducing the amount of energy used in our products. We are working with our suppliers to identify and eliminate the use of hazardous chemicals in our products. We are also working with our suppliers to identify and eliminate the use of hazardous chemicals in our products.





Package and Ship

iPad Air (5th generation) packaging is made with 100% recycled cardboard and 36% recycled wood fiber.

During production, packaging is made with 100% recycled cardboard and 36% recycled wood fiber. iPad Air packaging is made with 100% recycled cardboard from 100% recycled wood fiber. iPad Air packaging is made with 100% recycled cardboard from 100% recycled wood fiber. iPad Air packaging is made with 100% recycled cardboard from 100% recycled wood fiber.

97%

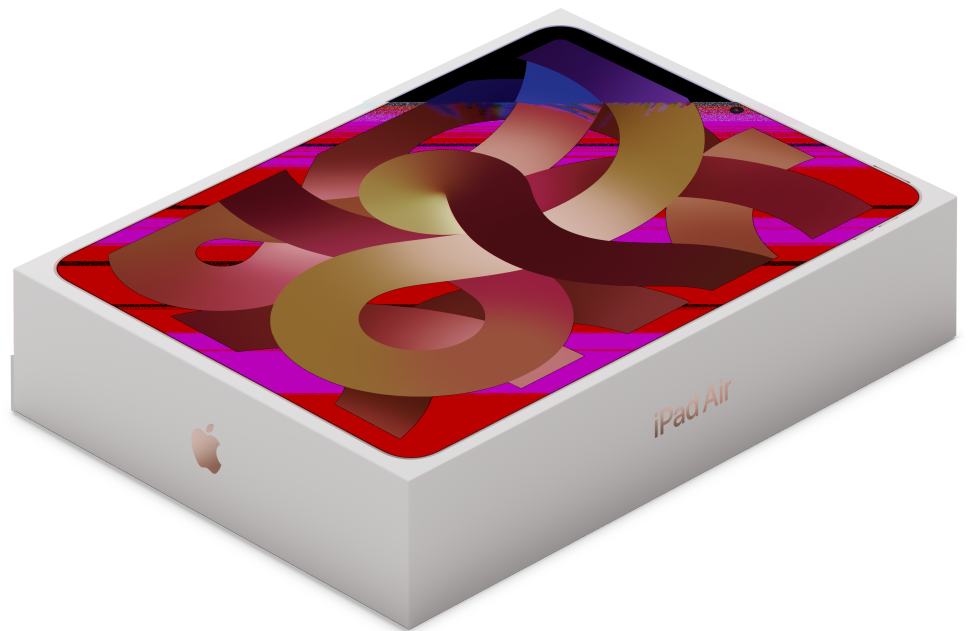
of iPad Air packaging¹¹ is fiber-based and does not use virgin wood fiber in iPad Air packaging.

36%

of recycled cardboard in iPad Air packaging.

100%

of virgin wood fiber in iPad Air packaging comes from 100% recycled wood fiber.





Recover

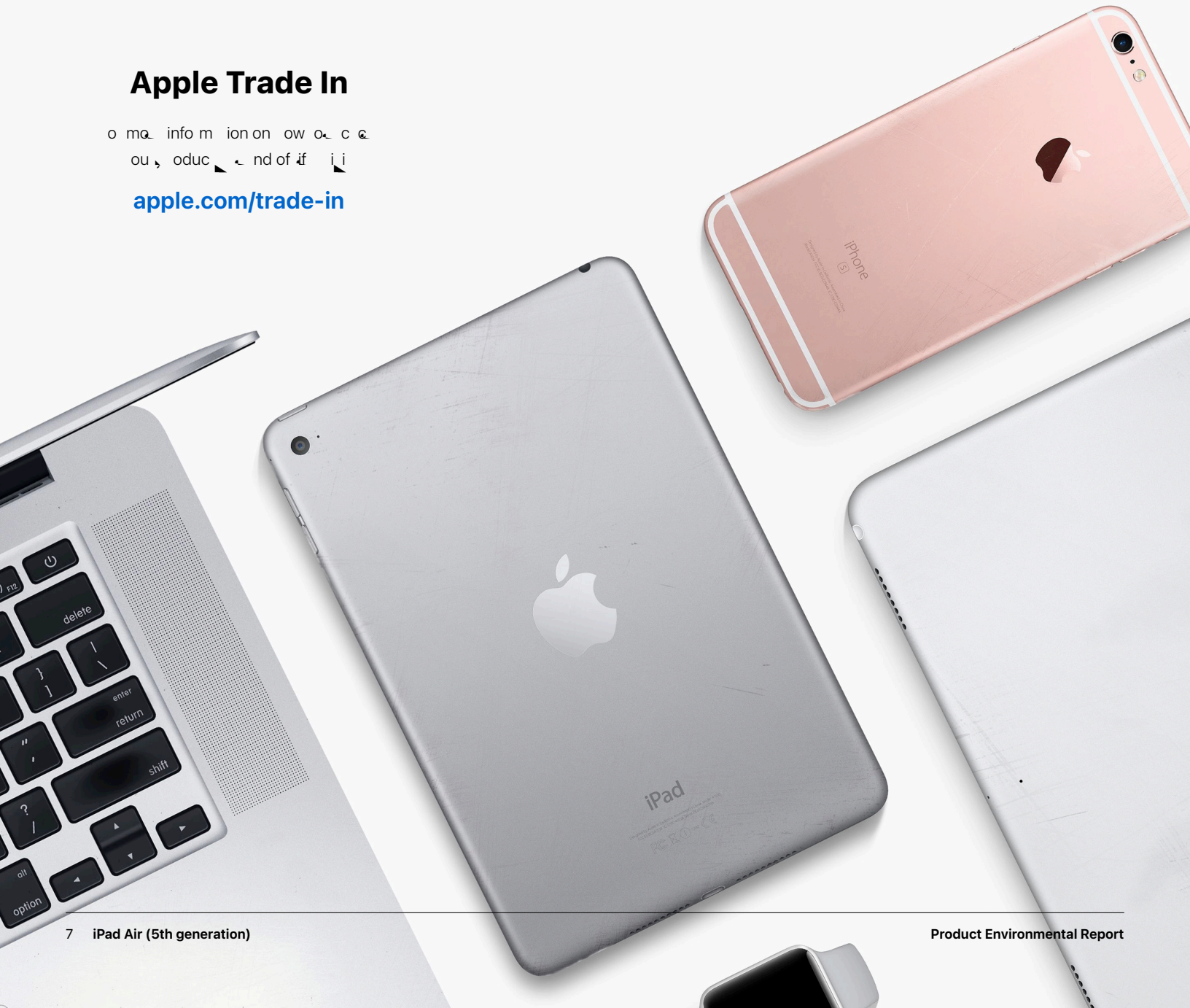
Recovery of products is a key part of our environmental strategy. We aim to recover as much as possible from our products at the end of their useful life.

We are committed to recovering as much as possible from our products at the end of their useful life. This includes recovering materials and components from our products, as well as recovering energy from our products. We are also committed to recovering as much as possible from our products at the end of their useful life. This includes recovering materials and components from our products, as well as recovering energy from our products.

Apple Trade In

For more information on how we can help you recover your old Apple products, visit apple.com/trade-in.

apple.com/trade-in



Definitions

Bio-based plastics: io-b e d s ic e m d f om bio ogic 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

Carbon footprint: E im e d m i ion e c cu e d in cco d nc wi guid ia nde qui ra n e cifi d b IS 14 4 nd IS 14 44. e e i in e n unc in in mod ing c bor m i ion du s im i o d im i ion o e q con o n con ibu o a s s e ' c bor m i ion s s e dd e i unc in b d e q ing d i d s oc b e d n i on r n mod wi s s e e cific, ra e o e m ining e ra n o f s s e ' c bonfoo, in w e on indu e g d nd um i ion. C cu ion in c ud e m i ion 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 nc f co e e)

Production: Inc ud e e c ion s oduc ion nd n o ion of w m e i w e m nuf cu e n o nd e mb of s nd s oduc s ck ging.

Transport: Inc ud i nd e n o ion of e fini e d s oduc nd i oci e d s ck ging f om m nuf cu ing i o e gion di ibu ion ub e n o of s oduc f om di ibu ion ub e nd cu ora i mod e du ing e g di nc b e d on e gion g og s .

Use: s s e um e e o fou e e iod fo s ow u b fi owa b e d on e s oduc e . oduc u e c n io e b e d on i o ic cu ora u e d fo im i s oduc . Ea g u e i im u 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 i i ik mo j nd mu ic s b ck. G og s ic d i f e nc in e s ow g id mi e b e n ccour e d fo e gion e e .

End-of-life processing: Inc ud n o ion f om c e c ion ub o e c cing 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 bonfoo, in i i s s e . www.apple.com/environment/

Recycled materials: R c cing m k b e u e of fini e ou e b ou cing f om e c 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 s 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 e c n b e g a e d in um n if e n ik s e fib o ug c a . io-m e i c n e s u u e f w fini e ou c . u e n oug bio-m e i e e bi i o e 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 s e ing e e ' e ou c e w w focu on ou c e c i d i d fo e i m n g r n s c ic e

Supplier Clean Energy Program: Sinc e e e c i c i u d o m k ou s oduc i e g con ibu o o ou a c bonfoo, in w e e s ing ou u s i b cor m a e a g e f f i c i n nd n i ion o a w e a w l e a g ou c . W e commi 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 i c i b 2 3 .

Endnotes

¹ s s e d fia i e ic ion on mfu ub nc including d fini ion fo w s s e con id o b "e e of" in e s s e R gu e d Sub nc s e cific ion. E e s s e s oduc i e e of C nd s 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 e w con inu o e k g o e n r n s s o fo ou C nd s e e s c r n s s e s oduc con s wi e Eu e n Union D e c k 2 11 e /EU nd i r a nd r n including e m i ion fo e u e of d u c ig e m e u o d s s e i wo king o s e ou e u e of e e e m e d ub nc w e e c nic s o i l e .

² i d i e g a ion) c d e d God ing in e Uni d S e nd C n d in cco d nc wi IEEE 1 8 .1 o U 11 nd i j e d u c on e e c onic oduc En ion r n e e r a n o o e e) R g i . E . E e g e con u e d i e nd mobi s o a b e d o r n i on r n e qui ra n in e e nd d e o ma info m ion i i www.apple.com .

³ G e n ou g e m i ion w e c cu e du ing if c e e r 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 d i e g a ion) nd d configu ion wi e 4G o g . W o e n u d e ou c bon mod e e g a w info m ion e u ou e im e fo e c bonfoo, in of e s e iou g a ion—i d i e g a ion) wi e 4G o g configu ion—ina e d f om 82 kg C e e ubi e d in i oduc En ion r n R s o) o 88 kg C e .

Carbon footprint		
	iPad Air (5th generation)	iPad Air (4th generation)
64G	8 kg C e	88 kg C e
128G	84 kg C e	-
256G	82 kg C e	12 kg C e

Endnotes

4 i d i (A g a ion) w u d fo com i on e mo e c n e e d nd imi d ic . e s oduc ion i d i (A g a ion) nd d configu ion wi 4G o g w com e d o i s ingi d i (A g a ion) nd d configu ion wi 4G o g configu ion inc e e e e wo ow o g configu ion off e d.

W m s m e i in ou u s c in nd s ubi i of id n i f i d in n um ung e n nd god (B G) cob nd i um ra e nd e fia in ou u s c in i d s ra n e k o confi m ou cing s c ic nd e s of ou e s on i la ou cing s og m. In ddi ion ou e ffo con id b o d ng of i k including oci e n ion n n um n ig nd go n n c i k.

6 R c e d m e i c im s s i o e n c o u nd i b e d on u di ing do a b U C.

7 C mic ra e G e n S e e n b n c m k 3 o 4 o o e e qui e n r a o do og i k U.S. E S f C o i c e con id e d f nd s e f e d fo u e G e n S e e n i com e e n i e d e ra n o o e u e ub n c g in 18 diff e n c i i . o m a e i n f o m i o n i i www.g-n.com o g.

8 e b i e d fin e mb u s i i o o e e b e n s e u s i fo m a n o a e - fo i d i (A g a ion) e i d s e i f i d e o W e b U C (2 7 2 9 S nd d). U e qui e e e c n d e ion ou g ra od o e n w e a a g o c i e e o W e o nd f i e e 4 e c n God e e c n nd inum 1 e c n) d ign ion.

9 R s on i la ou cing of wood fib i d fia d in s e ' S u in la i b S e cific ion. W con id wood fib o incud b mboo.

10 o m a e i n f o m i o n bou ou wo k o s a e c nd a e e s on i b m n g d fa e e d ou Enionran.org 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 c ud d.

12 E a g con um ion nd a g e f f i a i n c u e b e d on e ENERGY S R og m R qui ra n fo Com u including e m e a g ow n c fo i d i (A g a ion). o m a e i n f o m i o n i i www.a-g.com. ENERGY S R nd e ENERGY S R m k e e g i e d d m k o w a d b e U.S. En ion n a e c i o n g n c .

i d i (A g a ion) i e e d wi fu c g d b e nd s ow e d b e 2 W US -C ow d s e wi e US -C o C g C l e (m).

→ S e s ow s ow e i e r e d u o m i c e w o m i n u of in c i i (d f u) o b s e i n g e S e s / W k bu on. Con a e d o Wi- i o e e i n g w e e f in e i d f u e .

→ I d -D i s on D i s big a w e d fia d b ENERGY S R og m R qui ra n fo Com u nd u o- ig a w u a d off. Con a e d o Wi- i o e e i n g w e e f in e i d f u e .

→ ow d s e no-o d Con d i o n i n w i c e 2 W US -C ow d s e wi e US -C o C g C l e (m) i con a e d a C s ow bu no con a e d o i d i (A g a ion).

→ ow d s e e f f i a i n c e g of e 2 W US -C ow d s e wi e US -C C g C l e (m) ra u d f f i a i n c w 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 s u c u e n .

Power consumption for iPad Air (5th generation)			
Mode	100V	115V	230V
S e s	.44W	.44W	.42W
I d -D i s on	3.3W	3.3W	3. W
ow d s e no-o d	. 4W	. 4W	. W
ow d s e e f f i a i n c	80.8	87.0	87.8

13 _ d -in u b e d on e con d i o n e nd configu ion of ou d -in d ic nd m o b w e n on i a nd in- a d -in. You mu b e 18 e o d. In- a d -in e qui e s e n ion of id go n n a n i u d s o o D o c w m e qui i n g i n f o m i o n) d d i o n e m f o m s s e o s s e d -in s a m s s .

© 2 2 2 2 Inc. i g e e d s s e e s s e o g o . c e . c o g o i o a i d s s e W c H o r a o d s s e _ i S i d S m c S S S nd w c S e d m k of s s e Inc. e g i e d in e U.S. nd o e coun j nd e gion i d i (A g a ion) i d m k of s s e Inc. s s e S e i e i c m k of s s e Inc. e g i e d in e U.S. nd o e coun j nd e gion ENERGY S R nd e ENERGY S R m k e e g i e d d m k o w a d b e U.S. En ion n a e c i o n g n c . e s oduc nd com n n ra ra n i o a d e e in m b d m k of e i e e c k com ai .