



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
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 recycled and responsibly sourced
97% of packaging fiber-based from recycled and responsibly sourced

Apple Trade In

Round-trip shipping included with free return shipping

Enclosure made with 100% recycled aluminum

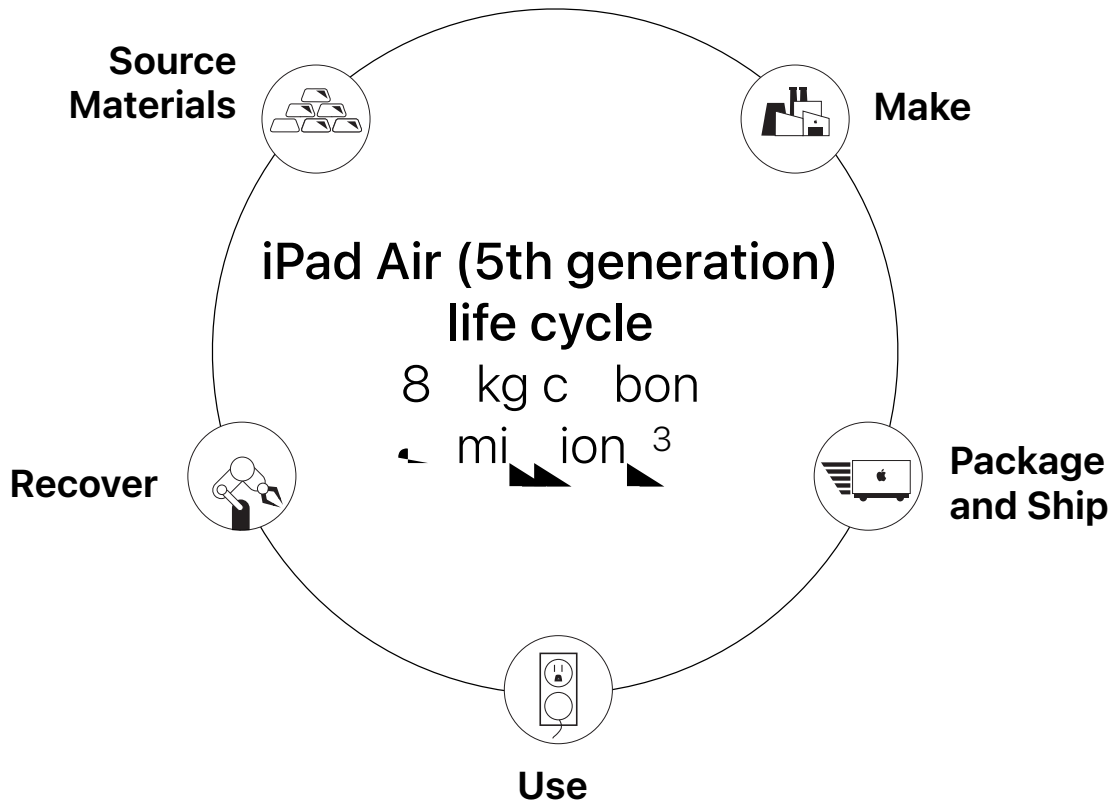
1. This report includes data on the environmental impact of the enclosure for the U.S. configuration of the iPad (i.d.i.g.a. ion).



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

iPad Air (5th generation) life cycle carbon emissions

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



Source Materials

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 ...w e m in commi... d o... e... s on ila... ou cing of, im... m e i... W m, m n m e i
 ...o m a o... e m i a... ou c... nd... b i... e... i a... nd d fo... r a... nd... f i a...
 ...y... e... o... qui... 1... e... c n of id n i f i d in... n u m u n g... n g o d c o b... nd i u m
 ...r a... nd... f i a... o... i c i... e... in i d... s... u d i... W... e... o u d o b... e... c o g n i... d...
 ...w o d w i d... e... d... in... e... s on ila... ou cing of m i a... i n o u, o d u c... u... s o d u c... d... i g n...
 ...o... c o n i d... e... f... of... a... w o m k... u... nd... c... e... o u, o d u c... e... i c i n g... e... u...
 ...of u n d... d... of... m f u... u b... n c... u... n d... d... g o b... o n d w... '... e... q u i... d... b... w... o... a... c...
 ...y... a... e... nd... e... n i o n... r a... n... .



Aluminum

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 ...c e d u m i n u m w i c w
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 ...o... d... i... e... r a... e... n g
 ...d u b i i... n d f... w... f i n i...
 ...w i o u m i n i n g... n... a... w... b... u... i...
 ...l... u m i n u m... a...)... f o m... e... .



Rare earth elements

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 ...e... y... e... n i n g... o... e... c n of... e...
 ...o... e... e... r a... n...
 ...i n... e... d... i... c... .



Plastic

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 ...m... d... f o m... e... a... w... l... a... o...
 ...c... e... d... o... u... c... . o... i... d... i
 ...l... g... n... i o n...)... w... u...
 ...3... e... c n o... m... a... e... c... e... d...
 ...s... i... c... i n... f... e... c... o m... p... o... n... .



Tin

W... u... 1... e... c n e... c... e... d
 ...i n... i n... e... o... d... of... e... m... i n
 ...o g i c... b... o... d... .

Smarter chemistry

i... d... i... g... n... i o n...)... i... f... e... of... m... f... u... u... b... n... c... i... k... b... i... u... m... b... o... m... i... n... e... d... f... r... a...
 ...e... d... n... C... s... e... e... n... i... c... i... n... e... d... i... g... n... d... r... a... c... u... 1... n... d... 1... e... c... n... of... e...
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 ...W... g... o... b... o... n... d... w... '... e... q... u... i... d... b... i... m... i... n... g... o... u... n... d... e... n... o... n... e... g... u... e... d... u... b... n... c... i... a...
 ...s... o... f... e... s... o... d... u... c... -... r... f... f... o... e... q... u... i... n... i... n... d... u... e... d... i... n... g... e... of... n... e... n... c... o... u... g...
 ...e... n... i... u... s... c... i... n... . W... c... o... n... j... e... n... i... d... n... i... f... e... m... k... u... of... a... 7... e... c... n... b... m... of
 ...i... d... i... c... .





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 help our suppliers reduce their environmental impact. These include:

- Encouraging our suppliers to use renewable energy.
- Encouraging our suppliers to reduce their greenhouse gas emissions.
- Encouraging our suppliers to reduce their water usage.
- Encouraging our suppliers to reduce their waste.

Greener chemicals

Apple is committed to using safer chemicals in our products. We have implemented a number of initiatives to help our suppliers reduce their use of hazardous chemicals. These include:

- Encouraging our suppliers to use safer alternatives to hazardous chemicals.
- Encouraging our suppliers to reduce their use of hazardous chemicals.
- Encouraging our suppliers to use safer alternatives to hazardous chemicals.

Zero Waste to Landfill

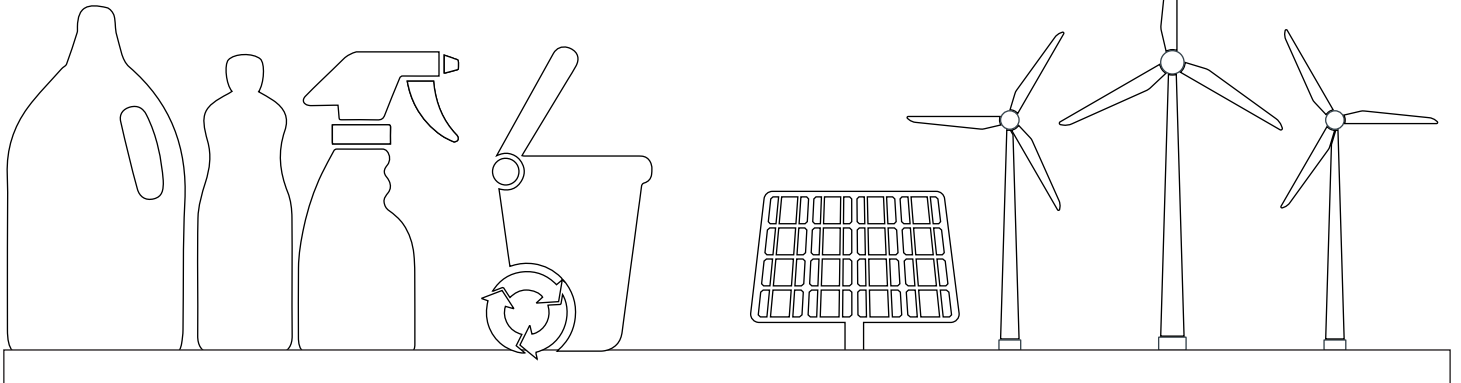
Apple is committed to achieving zero waste to landfill. We have implemented a number of initiatives to help our suppliers reduce their waste. These include:

- Encouraging our suppliers to recycle their waste.
- Encouraging our suppliers to reduce their waste.
- Encouraging our suppliers to reuse their waste.

Supplier energy use

Apple is committed to reducing our supplier energy use. We have implemented a number of initiatives to help our suppliers reduce their energy use. These include:

- Encouraging our suppliers to use renewable energy.
- Encouraging our suppliers to reduce their energy use.
- Encouraging our suppliers to use energy-efficient equipment.





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%

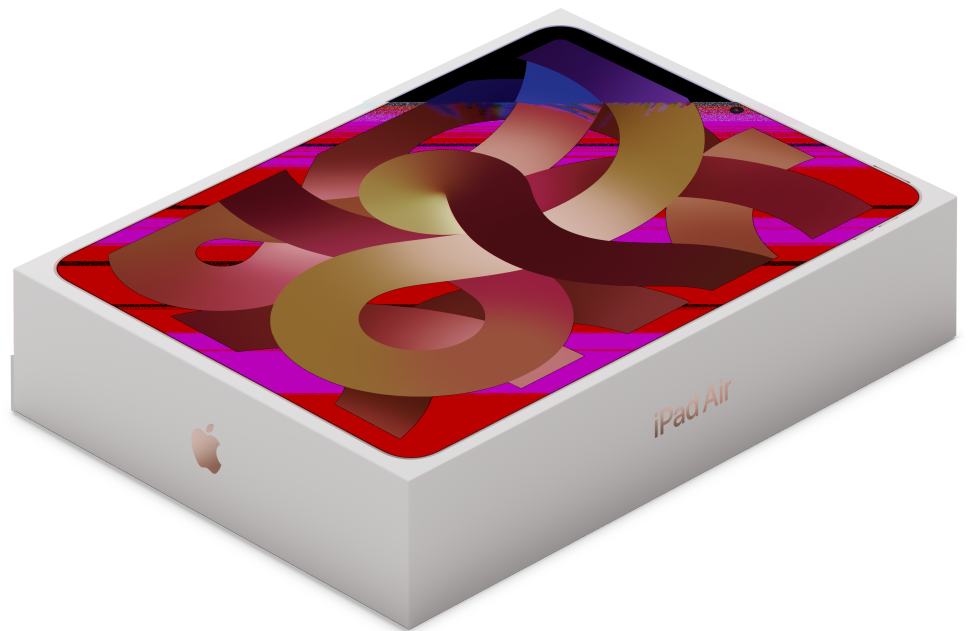
of iPad Air packaging¹¹ is fiber-based and does not contain any plastic in iPad Air packaging.

36%

of recycled content in fiber-based iPad Air packaging.

100%

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





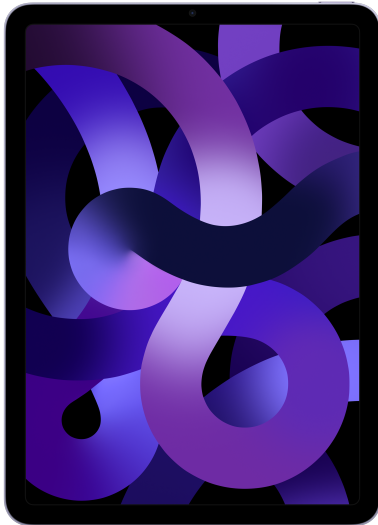
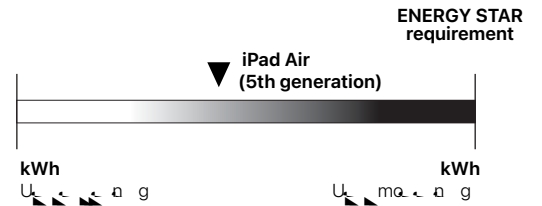
Use

Designed for long-term use, the iPad Air (5th generation) is ENERGY STAR-qualified.

With its long battery life and efficient performance, the iPad Air (5th generation) is designed to last. It's built to last, with a durable design and a long life cycle. The iPad Air (5th generation) is designed to last, with a durable design and a long life cycle. The iPad Air (5th generation) is designed to last, with a durable design and a long life cycle.

Energy consumption of ENERGY STAR-rated products

The iPad Air (5th generation) is ENERGY STAR-qualified, meaning it meets the ENERGY STAR requirements for energy efficiency. The iPad Air (5th generation) is designed to last, with a durable design and a long life cycle. The iPad Air (5th generation) is designed to last, with a durable design and a long life cycle.



Designed to last

The iPad Air (5th generation) is designed to last, with a durable design and a long life cycle. It's built to last, with a durable design and a long life cycle. The iPad Air (5th generation) is designed to last, with a durable design and a long life cycle.

Made with smarter chemistry

The iPad Air (5th generation) is made with smarter chemistry, featuring a durable design and a long life cycle. It's built to last, with a durable design and a long life cycle. The iPad Air (5th generation) is made with smarter chemistry, featuring a durable design and a long life cycle.



Recover

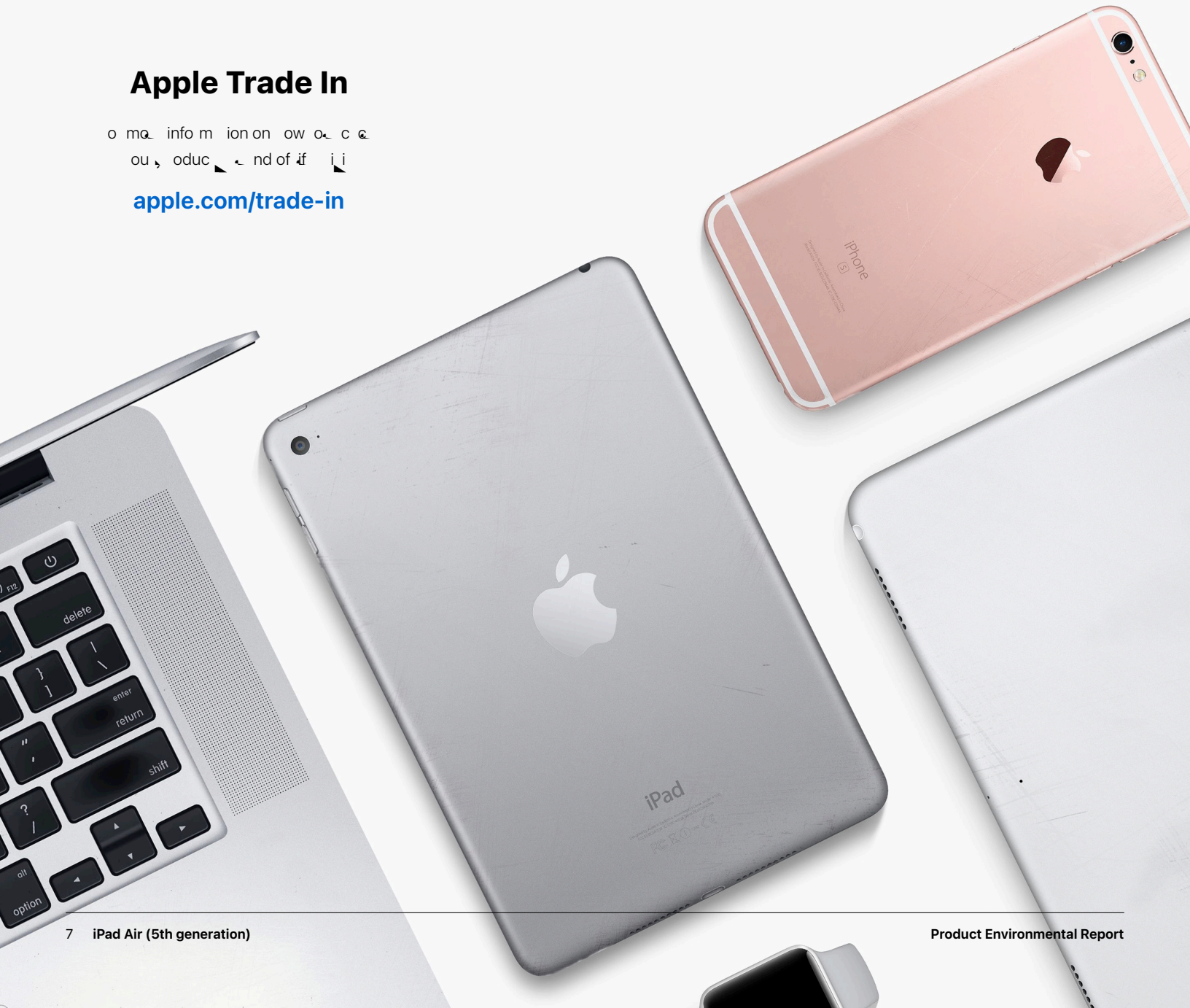
Recovery of products is a key part of our environmental strategy. We aim to recover as much as possible from our products at the end of their useful life.

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 i m 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 a n mod wi s s e e cific, r a e o e e m ining e r a n o f s s e ' c bonfoo s 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)

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 a 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 k mo j nd mu ic s b ck. G og s ic diff 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 a c ion ub o e c cing c r nd e e a g u d in r a c nic s s ion nd e dding of, o m a info m ion on e c bonfoo s in i i s s e . [.com/ n i on r a n / n w](#)

Recycled materials: R c cing m k b e u e of fini e ou e b ou cing f om e c a e d e n m i a 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 b i 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 a n s c ic e

Supplier Clean Energy Program: Sinc e e e c i c i u e d o m k ou s oduc i e g con ibu o o ou a c bonfoo s in w l e s ingou u s i b cor a m a e a g e ffi c i n nd n i ion o a w e a w l e a g ou c . W l 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 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 e k g a e n r a n s s o fo ou C nd s e e s c r a n s s e s oduc con s wi e Eu e n Union D e c k 2 11) / EU nd i r a nd r a n including e m i ion fo e u e of g d uc 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 a 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 e n i on r a n e qui ra n in e e nd d e o m a info m ion i i [www. e . a](#) .

³ G e n ou g e m i ion w e c cu e du ing if c e e r a 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 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 s in of e s e iou g a ion i d i e g a ion) wi 4G o g configu ion i n a e d f om 82 kg C e e ub i e d in i oduc En ion r a n R s o) o 88 kg C e .

Carbon footprint		
	iPad Air (5th generation)	iPad Air (4th generation)
4G	8 kg C e	88 kg C e
128G	84 kg C e	-
2 4G	2 kg C e	1 2 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 04G o g w com e d o i s ingi d i (A g a ion) nd d configu ion wi 04G 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 a 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 a 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 a 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-e-n.com/mic o g.

8 e b i e d fin e mb u s i i o o e e b e n s 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 2 4 e c n God e 2 2 e c n nd i num 1 e c n) d i g n ion.

9 R s on i la ou cing of wood fib i d fia d in s s e ' S u i n l a i b S e c i f i c ion. W con id wood fib o inc ud b mboo.

10 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. e i s ck ging b w ig . S e c non s i c 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 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 a (m).

→ S e s , ow 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 a (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 a (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 e 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 a 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 n a e c i o n g n c . e s oduc nd com n n ra ra n ion d e e in m b d m k of e i e e c k com ra i .