Product Environmental Report

i d i g n ion)

D in oduc d
c 18 2 22

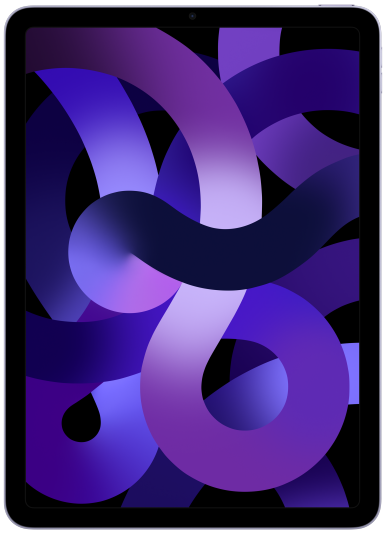
Made with better materials

100%

c c d uminum in nc o u

100%

c c d m n in nc o u nd udio m gn



Tackling climate change

100%

W commi d o n i ioning ou n i m nuf cu ing u c in o1 c n n w b c ici b 2 3 .

Energy efficient

56%

g con um d n ENERGY S R® n g ffici nc qui m n

Smarter chemistry[1]

nic-f di g
cu -f
omin d f m d n-f
C-f
ium-f

Responsible packaging

100%

of wood fib com f om c d nd on ib ou c

97%

of ck ging i fib -b d du o ou wo k ou ic in ck ging

Apple Trade In

R un ou d ic oug d In nd w ' gi i n w if o c c i fo .

Enclosure made with 100% recycled aluminum

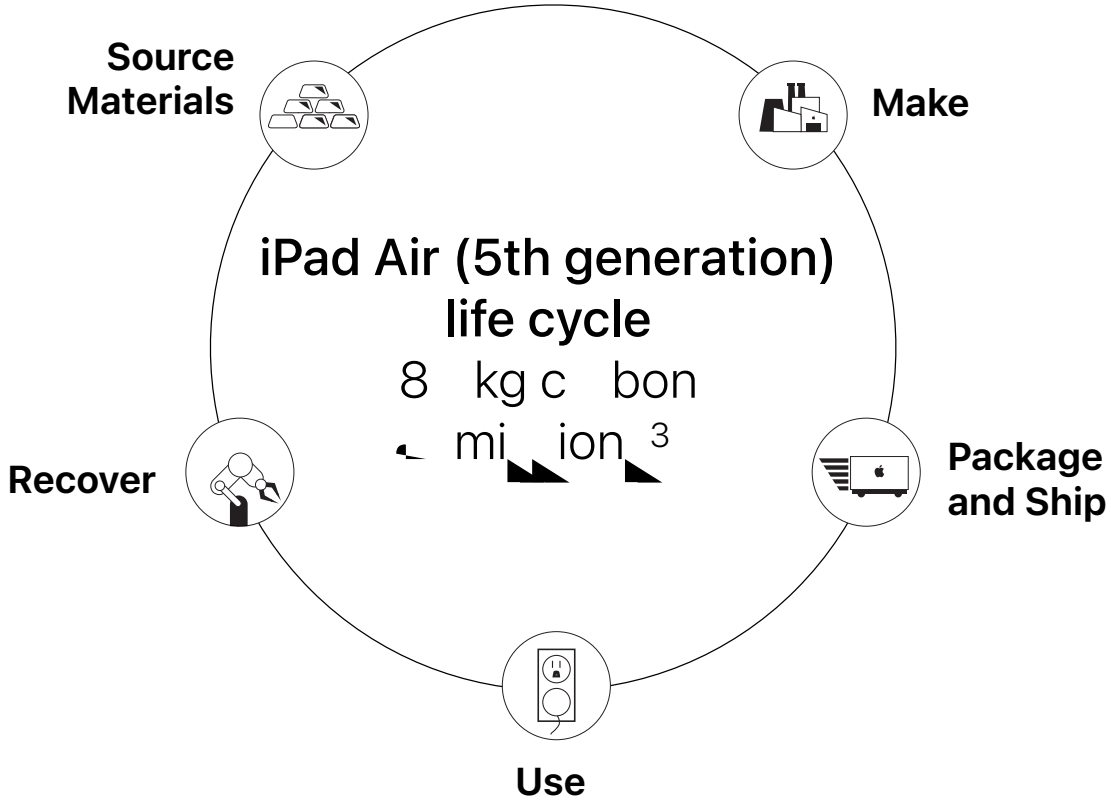
i o inc ud d cu n of oduc unc . oduc u ion b d on U.S. configu ion of i d i g n ion).

2

Taking responsibility for our products at every stage

W k on ibi i fo ou , oduc oug ou i if c c —inc uding m i m d of w o mb m nd ow c c d nd of if . nd w focu on w w c n mk bigg diff nc fo ou , n ducing ou im, c on cim c ng con ing im, o n ou c nd u ing f m i .

We sell millions of products. So making even small adjustments can have a meaningful impact.



Carbon footprint

W con inu o m k , og in ducing ' con ibu ion o c im c ng —b focu ing on m king n g ffici n , oduc wi n w b o c c d m i nd wi n w b n g n ing in u i ' u of n w b n g oug ou Su i C nE n g og m d duc , oduc ' c bon foo in b bou 8 c n com d wi iou g n ion[4] i commi d o u ing c bon if c c m n oid n if o , o uni i od i down, oduc g n ou g mi ion .

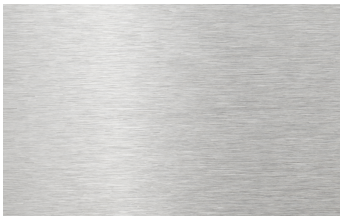
iPad Air (5th generation) life cycle carbon emissions

7[2]	oduc ion
7	n o
14	U
1	End-of-if , oc ing

Source Materials

nc o ul of i dl i gn ion) i m d wi 1 c d uminum.

o con im, o n ou c w wo k o duc m i w u nd im oon d ou c on c d o n wh m i in ou, oduc nd w m k i n i ion w m in commi d o on ih ou cing of, im m i . W m, m n m i om o min ou c nd bi ic nd d fo m nd fin . o qui 1 c n of id ni fi d in n um ung n go d cob nd i ium m nd fin o, ici in id, udi . W , oud ob cogni d wo dwid d in on ih ou cing of min in ou, oduc . u, oduc d ign o con id f of o w om k u nd c ou, oduc ic ing u of und d of mfu ub nc . u nd d go b ond w qui d b w o, c nd n i onmn .



Aluminum

d n uminum o m d of 1 c n c i fi d c d uminum w ic w u fo nc o ul of i dl i gn ion). i o d i m ng du bi i nd f w fini — wi ou mining n w b u i uminum) f om .

Rare earth elements

W u 1 c n c d m n in nc o ul nd udio m gn ning c n of o m n in d ic .

Plastic

W n i ioning f om fo i fu –b d, ic o o m d f om w h o c d ou c . o i dl i gn ion) w u 3 c n o mo c d , ic in fi com, on n .

Tin

W u 1 c n c d in in od of m in ogic bo d.

Smarter chemistry

i dl i gn ion) i f of mfu ub nc ik b ium b omin d f m d n C, nic in di g nd m cu 1 nd 1 c n of m i ini dl i gn ion) co d b ou Rgu d Sub nc Sc cific ion. W go b ond w qui d b iming ound nd non- gu d ub nc in , of , oduc — n ffo qui n indu ding of n nc oug ni u, c in. W con i n id nif mk u, of o 7 c n b m of i d d ic .

Make

Supplier Code of Conduct
ic nd d fo
ion of in ou c in nd
w . E w ou i fo m nc
in o ding nd d qui d b ou Cod .

W wo k co wi ou i o, o id f nd wo k, c w
d wi digni nd c nd o duc i n i onm n im c. u
qui m n c o ou c in nd inc ud on ib ou cing of m i .
om ong found ion b ou Cod w go fu —f om ing i n i ion
o n w b g o, o iding duc ion o, o uni i fo i m, o o ing
fin mb i in ducing w .

Greener chemicals

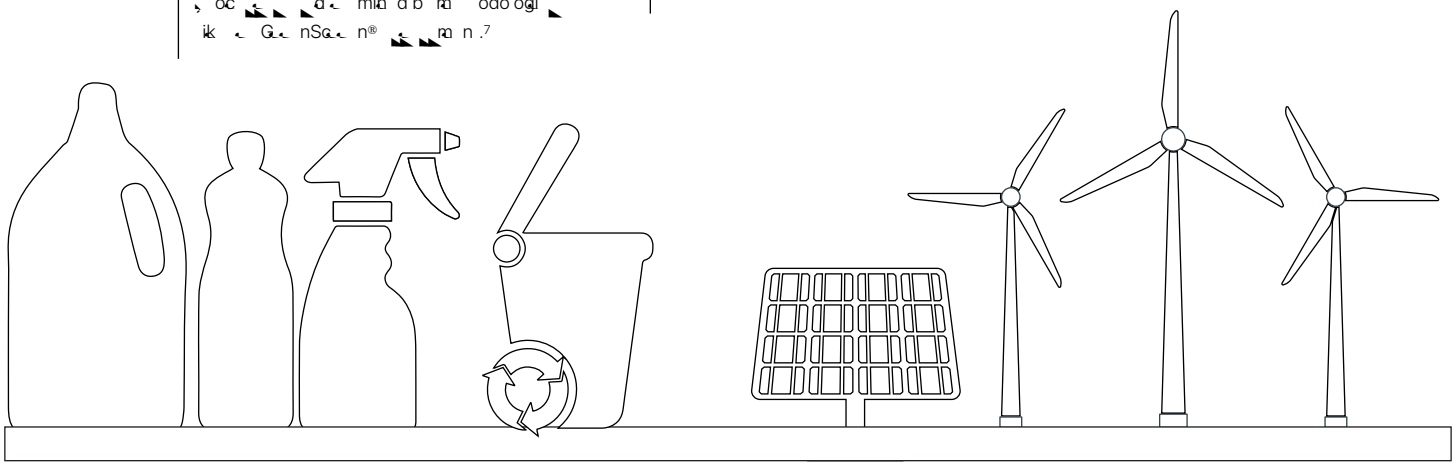
bi di i ion) fin
mb i u f c n
nd d g in i m nuf cu ing
, oc d min db m odoogi
ik G nSc n® m n.[7]

Zero Waste to Landfill

N bi di i ion)
fin mb i g n
n w n o ndfi .[8]

Supplier energy use

i i ion) fin
mb i n i ioning
o 1 c n w b g fo
, oduc ion.



Package and Ship

i d i (g n ion), ck ging i m d wi 1 c n c d nd on ib ou c d wood fib .

o im ou ck ging w wo king imin ic ing c d con n nd u ck ging o of wood fib in ou ck ging i i c d o com f om on ib m n g d fo nd w o d o d noug on ib m n g d fo o co i gin wood fib w u in ou ck ging.[1] i n u wo king fo b o g ow nd con inu o n ou i nd, u if ou w .

97%

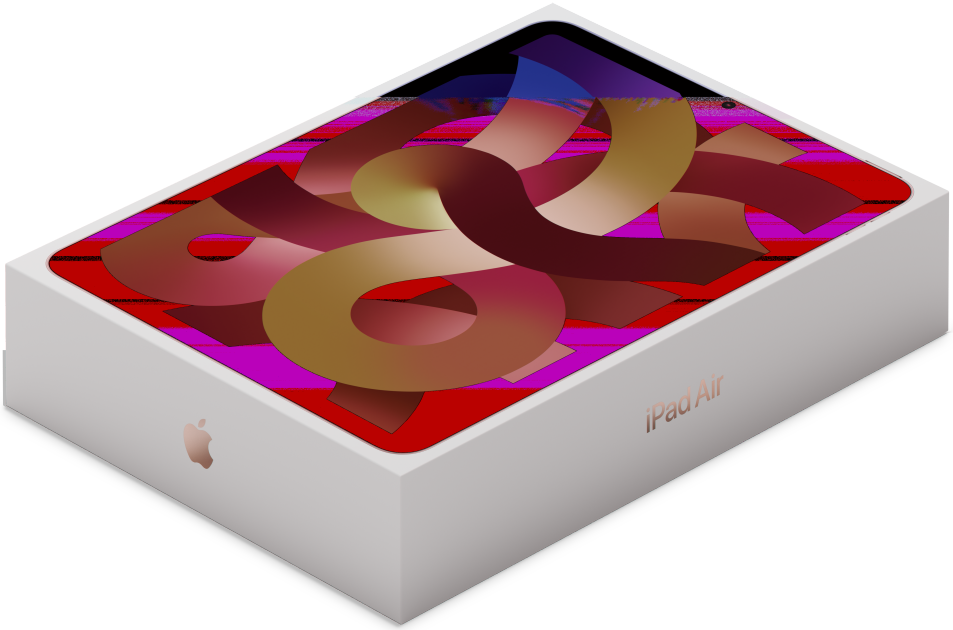
of ck ging[11] i fib -b d du o ou wo k o u ic in ck ging

36%

c d con n in fib ck ging

100%

of i gin wood fib in ck ging com f om on ib m n g d fo



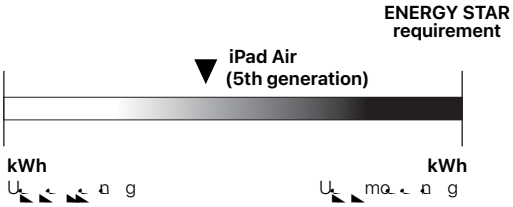
Use

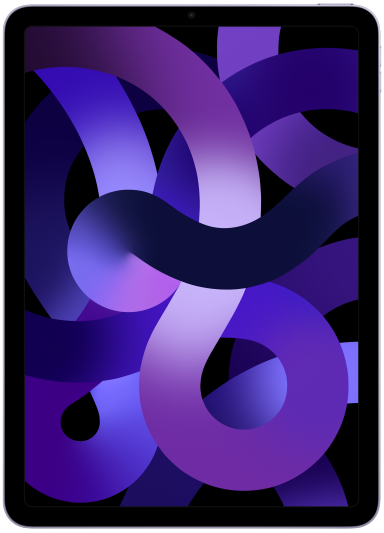
i d i g n ion) u o c n g n
qui m n fo ENERGY S R.[12]

W d ign ou , oduc o b n g ffici n ong- ing nd f . i d i g n ion)
u of w nd, ow ffici n com, on n in ig n m n g , ow con um, ion.
W o un ou own R i bi i nd En i onm n ing b w ou , oduc go oug
igo ou ing b fo ou doo . u u, o con inu oug ou c , oduc '
if c wi gu of w u, d o k, d ic cu n nd n wo k of u o i d
, i, af ion o ic m if n c .

Energy consumption of ENERGY STAR–rated products

d ic con i n nk mong ig fo ming, oduc d
b ENERGY S R w ic cific ion , ic f c 2 c n
mo n g ffici n d ic on m k . i d i g n ion)
con um o c n g n qui m n fo ENERGY S R.[12]





Designed to last

i d i f u du b unibod
con uc ion nd und gon
igo ou ing fo du bi i .

Made with smarter chemistry

W igo ou con o fo
m i u ouc — b d
on comm nd ion f om
o ico ogi nd d m o ogi .

Recover

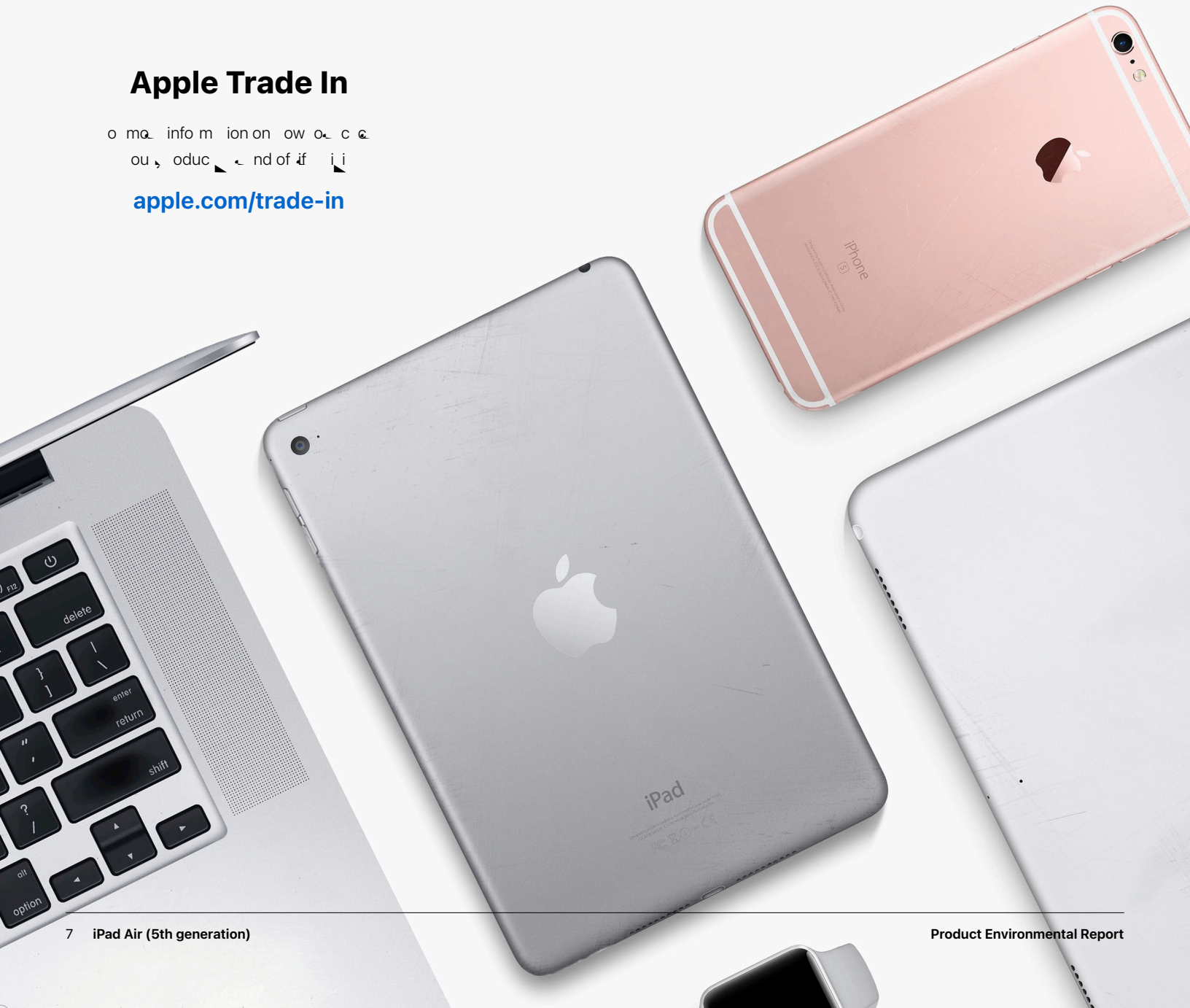
R u n ou , oduc wi — _d ln nd w ' n u i ong if o c c i fo f .

W n , oduc u d ong f w ou c d fom . _ ' w w unc d _d ln—i off cu om m w o u n i od d ic nd cc o i o . E igib d ic c nb d d in fo di o n S Gif C d w i cc o i nd o d ic c nb c d fo f .[13] W o off nd , ici in , oduc k -b ck nd c c ing co c ion , og m fo c n of coun i w w , oduc — nd w o d ou c o ig nd d u ffo o k , mfu ub nc ou of ou , oduc om n ou m i f o co nd u .

Apple Trade In

o mo info m ion on ow o c c ou , oduc nd of if i i

apple.com/trade-in



Definitions

Bio-based plastics: io-b d, ic m d f om bio ogic ou c n f om fo i-fu ou c io-b d, ic ow u duc inc on fo i fu .

Carbon footprint: E im d mi ion c cu d in cco d nc wi guid in nd qui m n ci fi d b IS 14 4 nd IS 14 44. i in unc in in mod ing c bon mi ion du im i od imi ion. o o com on con ibu o '-c bon mi ion dd i unc in b d o ing d i d, oc -b d ni onm n mod wi -p cific, m . o m ining m n of '-c bon foo, in w on indu g d nd um ion. C cu ion inc ud mi ion fo fo owing if c , con ibu ing o Gob W ming o ni (GW 1) in C qui nc f co (C 2)

- **Production:** Inc ud c ion, oduc ion nd n o ion of w m i w m nuf cu n o nd mb of nd, oduc , ck ging.
- **Transport:** Inc ud i nd n o ion of fini d, oduc nd i oci d, ck ging f om m nuf cu ing i o gion di ibu ion ub. n o of, oduc f om di ibu ion ub o nd cu om i mod d u ing g di nc b d on gion g og .
- **Use:** um -o fou p iod fo, ow u b fi own b d on, oduc . oduc u cn io b d on i oic cu om u d fo imi , oduc. En g u i imu d in iou w fo m b mod ing d i b d in o oug fo ming c i ik mo i nd mu ic, b ck. G og , ic diff nc in , ow g id mi b n ccoun d fo gion .
- **End-of-life processing:** Inc ud n o ion f om co c ion ub o c cing c nd g u d in m c nic , ion nd dding of, o mo info m ion on c bon foo, in i .com/ n ionm n/ n w .

Recycled materials: R c cing m k b u of fini ou c b ou cing f om co d nmin d m i. R c d con n c im fo m i u d in ou, oduc b n if d b nind nd n id, o c d con n nd d confo m o IS 14 21.

Renewable materials: W d fin bio-m i o cnb g n d in um n if n ik fib o ug cn. io-m i cn , u f w fini ou c. u n oug bio-m i bii o g ow no w m n g d on ib. R n w b m i of bio-m i m n g d in w n b con inuou, oduc ion wi ou d ing ' ou c. ' w w focu on ou c c if d fo imp ving m n, cic .

Supplier Clean Energy Program: Sinc c ici u d om k ou, oduc i g con ibu o ou o c bon foo, in w ' ing ou u i b com m g ffici n nd n ion o n w n w b g ou c. W' commi d o n ioning ou ni m nuf cu ing u, c in o 1 cn n w b c ici b 2 3 .

Endnotes

1 d fin i ic ion on mfu ub nc inc uding d fini ion fo w con id ob "f of" in R gu d Sub nc Sp cific ion. E oduc i f of C nd, c , fo C, ow co d in Indi i nd fo 2, ong C, ow co d) nd Sou Ko w con inu o k go nm n , o fo ou C nd, c , com oduc com wi Eu n Union Di c 2 11/ /EU nd i nd m n inc uding m ion fo u of d uc ig m u od i wo king o, ou u of m d ub nc w c nic , o ib .

2 i d i gn ion) c i d God ing in Uni d S nd C n d in cco d nc wi IEEE 1 8 .1 o U 11 nd i i d uc on E c onic oduc En ionm n m n oo (E E) R gi . E E gi com u di nd mobi , on b d on n ionm n qui m n in nd d. o mo info m ion i ww .

3 G n ou g mi ion w c cu d u ing if c m n m odoo g in cco d nc wi IS 14 4 nd 14 44 nd d nd b d on i d i gn ion) nd d configu ion wi 4G o g. W of nu d ou c bon mod o g n w info m ion u ou im fo c bon foo, in of iou gn ion—i d i 4 gn ion) wi 4G o g configu ion—inc d f om 82 kg C 2 ubj d in i oduc En ionm n R, o) o 88 kg C 2 .

	Carbon footprint	
	iPad Air (5th generation)	iPad Air (4th generation)
4G	8 kg C 2	88 kg C 2
128G	84 kg C 2	-
2 G	2 kg C 2	1 2 kg C 2

Endnotes

[4] i d i (4 g n ion) w u d fo com, i on mo c n d nd imi d ic . , oduc ion i d i g n ion) nd d configu ion wi 4G o g w com, d o, ing i d i (4 g n ion) nd d configu ion wi 4G o g configu ion inc wo ow o g configu ion off d.

[5] W m, m i in ou u, c in nd, ub i i of id n ifi d in n um ung n nd go d (8 G) cob nd i ium m nd fin in ou u, c in. _ i d, m n k o confi m ou cing, c ic nd , of ou on ila ou cing, og m. In ddi ion ou ffo con id b o d ng of i k inc uding oci n ionm n um n ig nd go n nc i k.

[6] R c d m i c im , i o nco u nd i b d on udi ing doo b U C.

[7] C mic m G nS n® b nc m k 3 o 4 o qui n m odoogi ik U.S. E S f C oic con id d f nd, f d fo u . G nS n® i com, n i d m n oo u ub nc g in 18 diff n c i i . o m info m ion i i www.g n g nc mic .o g.

[8] bi d fin mb u, i i —o o b n , u, i fo m non — fo i d i g n ion) id, if id o W b U C U 27 S nd d). U qui 9 c n di ion oug m od o nw g o c i o W o ndfi i 9 —9 4 c n Go d 9 —9 c n nd inum 1 c n) d ign ion.

[9] R on ila ou cing of wood fib i d fin d in , ' Su in la ib S cific ion. W con id wood fib o inc ud b mboo.

[10] o m info m ion bou ou wo k o c nd on ib m n g d fo d ou En ionm n og R, o .

[11] kdown of U.S i, ck ging b w ig . S c non, ic non-fib m i cud d.

[12] En g con um, ion nd n g ffici nc u b d on ENERGY S R og m R qui m n fo Com, u inc uding m n g ow nc fo i d i g n ion). o m info m ion i i ww n g .go . ENERGY S R nd ENERGY S R m k gi d d m k own d b U.S. En ionm n c ion gnc .

i d i g n ion) i d wi fu c g d b nd, ow d b 2 W US -C ow d, wi US -C o C g C la (1 m).

- S , ow, ow i n d u om ic f wo minu of in c i i d f u) o b ing S , /W k bu on. Conn c d o Wi- i o ing w f in id f u .
- Id —Di on Di b ig n w d fin d b ENERGY S R og m R qui m n fo Com, u nd u o- ig n w un d off. Conn c d o Wi- i o ing w f in id f u .
- ow d, no- o d Condi ion in w ic 2 W US -C ow d, wi US -C o C g C la (1 m) i conn c d o C, ow bu no conn c d o i d i g n ion).
- ow d, ffici nc g of 2 W US -C ow d, wi US -C C g C la (1 m) m u d ffici nc w n d 1 c n 7 c n nd 2 c n of , ow d, ' d ou u cu n .

	Power consumption for iPad Air (5th generation)		
Mode	**100V**	**115V**	**230V**
S ,	.44W	.44W	.42W
Id —Di on	3.3W	3.3W	3. W
ow d, no- o d	. 4W	. 4W	. W
ow d, ffici nc	8 .8	87.9	87.8

[13] _ d -in u b d on condi ion nd configu ion of ou d -ind ic nd m o b w nonin nd in- d -in. You mu b 18 od. In- d -in qui n ion of id go nm n -i u d, oo ID oc w m qui ing i info m ion) ddi ion m f om o ' d -in, n m .

© 2 22 Inc ig d — ogo c c ogoi on i d W c Hom od _ i Si d Sm c S S nd w c S d m k of Inc. gi d in U.S. nd o coun i nd gion i d i g n ion) i d m k of Inc S i ic m k of Inc. gi d in U.S. nd o coun i nd gion. ENERGY S R nd ENERGY S R m k gi d d m k own d b U.S. En ionm n c ion gnc . , oduc nd com, n n m n ion d in m b d m k of i c com, ni .