roduct E iro mei tal Re ort

c ook i wi 2c

D in oduc d
un 2 22

rogress to ard our 2 goal

40% c d o n w la con n[1]

Over 20% of m nuf c ing c ici ou c d f om u i e n g q j c[2]

Res o sible ac agi g

100% c d o on ib ou c d wood fib

96% fib -b d du o ou wo k o imin ic in ck ging

Res o sible ma ufacturi g

Su i Cod of Conduc ic nd d fo q c ion of in ou u c in nd n .

Smarter chemistr [3]

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

Lo ge it

n u du bii w d c ook i wi 2c in ou R i bii ing b u ing igo ou ing m od imu cu om i nc .

Reco er

R u n ou d ic oug d ln nd w ' gi i n wif o c c i fo .

irst le roduct to use certified rec cled steel— o i the batter tra

i o inc ud d cu n of, oduc unc . oduc u ion b d on U.S. configu ion of c ook i wi 2c i . oduc c bon foo in c cu ion inc ud in-bo cc o i w ck ging.

4

Our roduct carbo
eutralit strateg

u go i fo nd oduc w m k ob c bon u b 2 3 ducing ou o c bon mi ion ono mo n mi ion m ic on — 7 c n duc ion g in ou 2 1 b in . on w o c i mbi iou go i o ub n i d c bonk ou , oduc .

u , n od c bonk , oduc i igo ou nd focu on n i ioning o n c ici d igning wi c d nd ow-c bon m i nd, io i i ing ow -c bon w of i, ing, oduc ik wi oc nf ig . n f w ub n i duc d mi ion wi w , di fom ig -qu i c bon mo , oj c o c i c bon u i .

Ho e're reduci g emissio s

- **Transition to 100 percent clean electricity for manufacturing:** o imin mi ion f om c ici u d om k , oduc w , io i i ing m nuf c u ing n g ffici nc nd , ing o n ion ou ni u , c in o 1 c n n c ici .[5]
- **Transition to 100 percent clean electricity for product use:** o g du n g mi ion f om c ici ou cu om u oc g i , oduc w , io i i ing , oduc n g ffici nc nd in ing in n g , oj c ound wo d.
- **Prioritize non-air transportation:** o duc mi ion f om n , o ing, oduc w , io i i ing u of ow -c bon i, ing mod n i ik oc no i.
- **Use recycled and low-carbon materials:** o dd mi ion g n d b u ing, im m i w ing ing c d con n of ou , oduc m imi ing m i nd m nuf c u ing ffici nci nd im, o ing i d nd w w no fu n ion d o c d con n w , io i i ing ow-c bon m i uc uminum m d wi d o c ici .

Ho e'll get to et ero emissio s

o mi ion m in f duc ion w nd ou u , i u , o ing n u -b d c bon o u ion u in ig -qu i c bon di . , nim, o n in dd ing ou cim c i i n u -b d o u ion con ibu o of co m in ddi ion o mo ing c bon f om mo . W ign d wi ci n ific con n u ou ion ou d on b d, o d ong id gg i mi ion duc ion .

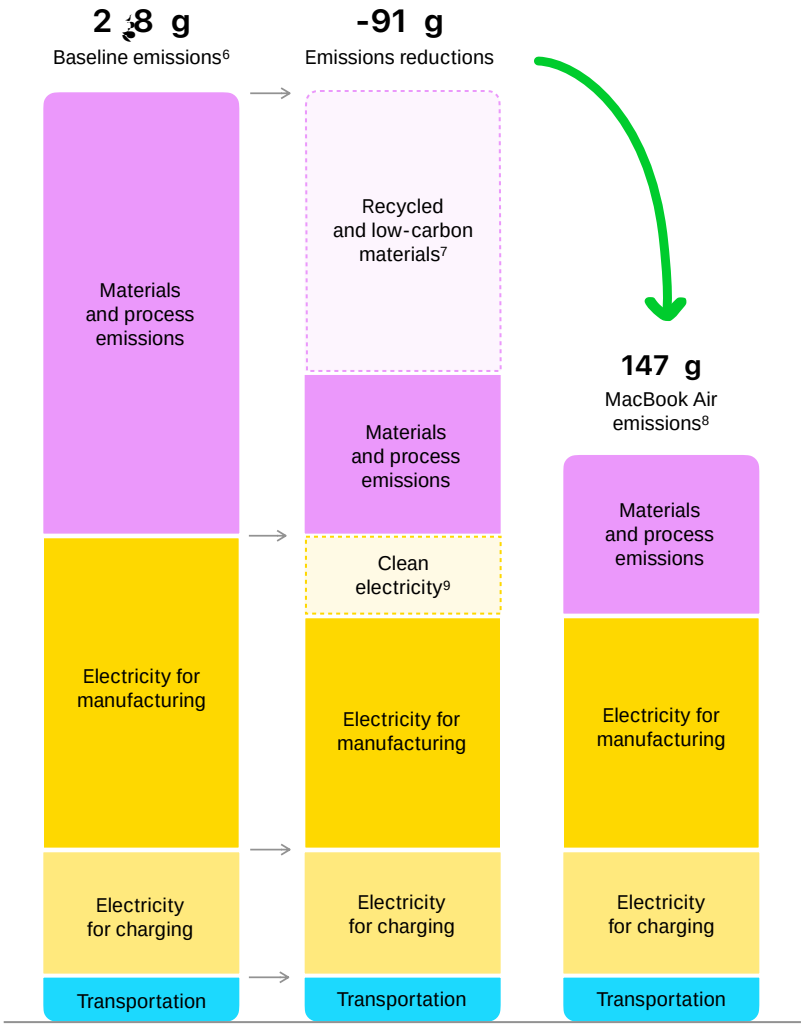
Ho e're mo itori g rogress

W fi c cu fin c bon foo, in of , oduc u ing if c c bon n i , o c in cco d nc wi in n ion nd d. , n u ou wo k i n ing o duc ion w con id w mi ion wou d b n wi ou ou c ion . W , fo owing um, ion o b in c n io

- No u of n c ici fo m nuf c u ing o , oduc u b ond w i d i b on g id b d on gion mi ion f c o).
- ' c bon in n i of k m i of 2 1 C bon in n i of m i f c u of c d con n nd, oduc ion c no og .
- ' g mi of n , o ion mod i i oc n ucking) b , oduc in c o ic 2 17 o 2 1) ob c , u b in n , o ion mi ion of ou , oduc .

rogress to ard carbo n eutral

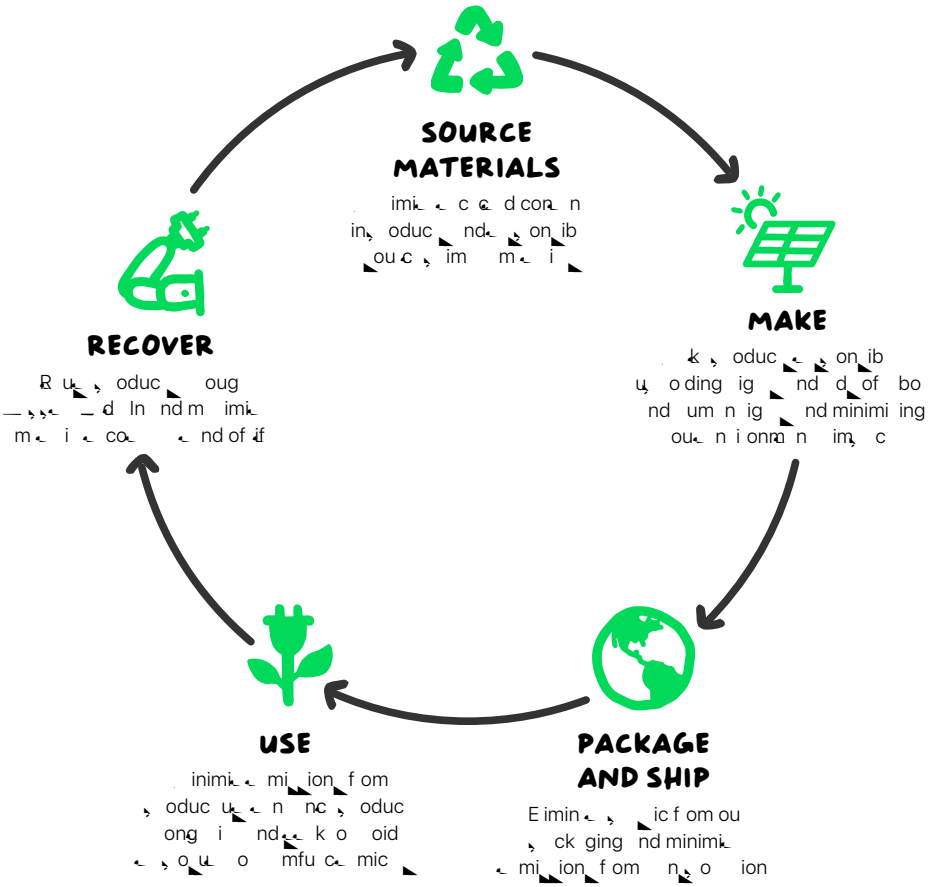
W ' duc d mi ion fo c ook i wi 2 c i b 38 c n g in ou b in. c ook i wi 2 c i con in 4 c n c d con n inc uding 1 c n c d uminum nc o u ducing c ook i wi 2 c i mi ion b bou 3 c n. W o wo king wi ou u i o n i ion o 1 c n c ici fo oduc ion. c ici ou ion u i d im m d od duc d c ook i wi 2 c i mi ion b 8 c n.



Ta i g res o sibilit for our roducts at e er stage

W k on ibi i fo ou oduc oug ou i if 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 m k bigg diff nc fo ou n ducing ou im c on c im c ng con ing im o n ou c nd u ing f m i .

We sell millio s of roducts. So ma i g e e small adjustme ts ca ha e a mea i gful im act.



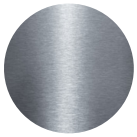
Source aterials

 c ook i wi 2c i con in 4 c n c d o n w b con n.[1]

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 w b m i in ou oduc nd w mk i n ion w m in commi d o on ib 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.[10] W oud o b cogni d wo dwid d in on ib ou cing of min in ou oduc. u oduc d ign o con id f of o w mk 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 o nd n ionm n.

Rare earth eleme ts

W u 1 c n c d m n in m gn ning 8 c n of o m n in d ic.



Steel

W u c n c d in b — fi fo .

Ti

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

lastic

W n ioning f om fo i fu –b d ic o o m d f om n w b o c d ou c. o cook i wi 2c i w u 3 c n o mo c d, ic in 1 com on n.

\ lumi um

 c d n uminum o m d of 1 c n c d uminum w ic w u fo nc o u of cook i wi 2c i.[11] i o d i m ng du bi i nd f w fini —wi ou mining n n w b u i uminum) f om .

Smarter chemistr

cook i wi 2c i i f of mfu ub nc ik b ium b omin d f m d n C nic in di g nd m cu 3 nd 1 c n of m i in cook i wi 2c i co d b ou R gu d Sub nc S 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 n if mk u, of o 7 c n b m of cd ic.

a e

Su i Cod of Conduc ic nd d fo c ion of in ou c in nd n w . E w ou i fo m nc in u o ding nd d qui d b ou Cod .

W wo k co wi ou o, o id f nd wo k, c w o dwi digni nd c nd o duc i n ionm n im c. u qui m n co 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 ion o m c ici o o iding duc ion o, o uni i fo ik m, o o ing fin mb i in ducing w . o mo info m ion .com/ on ibi i .

ree er chemicals

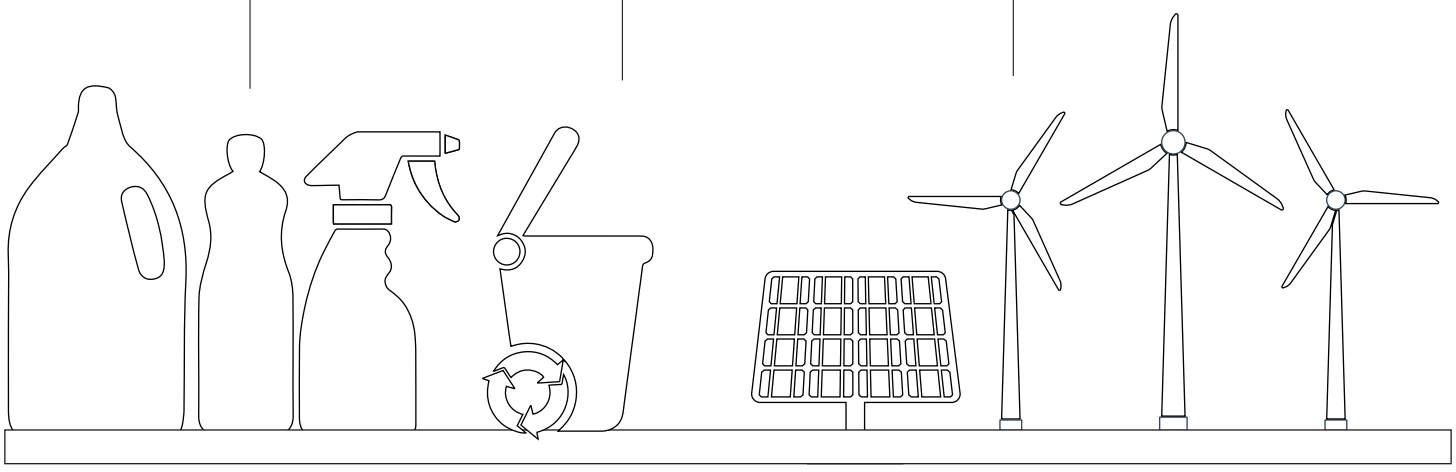
bi d c ook i wi 2 c i fin mb i u f e n nd d g in i m nuf c u ing, oc d min d b m odo ogi ik G nSa n® m n.[12]

Zero Waste to La dfill

N bi d c ook i wi 2c i fin mb i gn n w n o ndfi .[13]

Su lier e erg use

2 c n of m nuf c u ing c ici i ou c d fom n g, o c u o d b Su i G nEn g og m.[2]



ac age a d Shi

c ook i wi 2 c i , ck ging i m d wi 1 , c n c c d nd , on ib ou c d wood fib .

o im o ou , ck ging w wo king imin , ic ing c c d con n nd u , ck ging o of wood fib in ou , ck ging i i c c d o com f om , on ib m n g d fo .[14] nd w , c c d o c d noug , on ib m n g d fo o co i gin wood fib w u in ou , ck ging.[15] i n u wo king fo b o g ow nd con inu o c n ou i nd, u if ou w .

w n o ou , oduc f om ou m nuf c u o ou con um w i , io i i ing c bon-in n i i , ing mod n i n o uc i nd oc n.

96%

of , ck ging[16] i fib -b d du o ou wo k imin , ic in, ck ging

45%

c 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 [14]

Use

c ook i wi 2c i u 7 c n n g n qui m n fo ENERGY S R.[17]

W d ign ou , oduc o b n g ffici n ong- ing nd f. c ook i wi 2c i 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, of ion o ic m if n c . o dd mi ion i d o c ici ou , oduc u w bui ding c n n g , q c nd ng ging wi ou cu om o duc nd, o id q, o uni i o u, o d c boni ion of g id.

E erg co sum tio of ENER Y S R–rated roducts

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. c ook i wi 2c i con um 7 c n n g n qui m n fo ENERGY S R.[17]

esig ed to last

o n u du bi i w d c ook i wi 2c i in ou R i bi i ing b u ing igo ou ing m od imu cu om i nc .

ade ith smarter chemistr

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 .

Reco er

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 c d f om — nd w w n
m i in ou , oduc o k on in o , oduc _ ' w w unc d , , _ d ln—
i off cu om m w o un i od d ic nd cc o i o , , . E igib
d ic c n b d d in fo c di o n , , S c Gif C d w i cc o i nd o
d ic c n b c c d fo f . [18] 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 c o ig nd d u ffo o k , mfu ub nc ou of ou , oduc
m n ou m i f o co nd u .

W o ing , , R c c Guid o , o id guid nc fo , af ion
c onic c c on ow o f di mb — , , , oduc o m imi
co of ou c . guid , o id u b in ig in o , ,
fo c cing w comm nd d down m m i
c c fo di mb d , .

le Trade I

o mo info m ion on ow o c c
ou , oduc nd of if i
a le.com trade-i

efi itio s

io-based lastics 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 o duc i nc on fo i fu .

Carbo foot ri t 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 n unc in in mod ing c bon mi ion du im i o d imi ion. o o, com, on n con ibu o o ' c bon mi ion dd i unc in b d o, ing d i d, oc - b d n ionm n mod wi - 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 Glob W ming o n i (GW 1) in C qui nc f o (C 2)

- **roductio** Inc ud c ion, oduc ion nd n, o ion of w m i w m nuf c u n, o nd mb of , nd, oduc , ck ging.
- **Tra s ort** Inc ud g ound i nd n, o ion of fini d, oduc nd i oci d, ck ging f om m nuf c uring i o gion di ibu ion ub . n, o of , oduc f om di ibu ion ub nd cu om i mod d uring g di nc b d on gion g og , .
- **Use** um - o fou iod fo , ow u b fi own b d on , oduc . oduc u c n io b d on i o ic 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 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 .
- **E d-of-life rocessi g** Inc ud n, o ion f om co c ion ub o c cing c n nd n g u d in m c nic , ion nd dding of, .

o mo info m ion on ou , oduc c bon foo, in m odo og i i .com/ n i onm n / n w .

Lo -carbo materials R f om i c d uring, oduc ion c niqu wi duc d c bon im, c uc E i , n d c no og imin di c g n ou g mi ion f om di ion uminum m ing, oc) o uminum m d uring d o c ici in d of co .

Rec cled materials R c cing m k b u of fini ou c b ou cing f om co d n min d m i . R c d con n c im fo m i u d in ou , oduc b n ifi d b n ind nd n id, o c d con n nd d confo m o IS 14 21.

Re e able materials W d fin bio-m i o c n b g n d in um n if n ik , fib o ug c n . io-m i c n , u u f w fini ou c . u n oug bio-m i bi o g ow no w m n g d , on ib . R n w l m i of bio-m i m n g d in w n l con inuou , oduc ion wi ou d , ing ' ou c . ' w w focu on ou c c ifi d fo i m n g m n , cic .

Su lier Clea E erg rogram Sinc c ici u d om k ou , oduc i g con ibu o o ou c c bon foo, in w ' , ing ou u , i d c boni i , oduc ion inc uding b n i ioning c ici u o 1 c n n w l ou c .

Carbo oot ri t

G n ou g mi ion w c cu d u ing if c m n m odo og in cco d nc wi IS 14 4 nd 14 44 nd d nd b d on c ook i wi 2 c nd 2 G o g . if c m n bound fo i oduc inc ud ic oduc nd of i com on n w in-bo c o i nd ck ging.

reen house gas emissio s	ac oo ir ith 2 Chi 256GB storage
Total product footprint	**147 kg CO_2e**
mi ion f om u i i u c d c ici (co 2)	kg C
if c oduc mi ion (co 3)	147 kg C
oduc ion	[illegible]
n o ion	8
oduc u	22
End-of-if oc ing	1
GHG duc ion c i d[6]	↓38

No c n g m no o 1 du o ounding.

W o c cu d oduc c bon foo in fo diff n configu ion

Co figuratio	ac oo ir ith 2 chi
2 G o g	147 kg C
12G o g	171 kg C

E d otes

[1] oduc c d o w l con i m of c ifi d c d m i i o o m of d ic no incuding, ck ging o in-bo cc oi

[2] W im c n of c ici d mi ion in ou m nuf cu ing i ou c d fom n ici b ibu ing o ou c bon mod n g, ocu d b ou i in , io fi c b d on i m nuf cu ing oc ion im of, oduc unc . Incud din i numb i on n ici o i i , ocu d , of 'Su i G n Eng og m.

[3] 'R gu d Sub nc Sp cific ion d cib 'ic ion on u of c in mic ub nc in m i in , oduc cc oi m nuf cu ing, oc nd, ck ging u d fo i ing, oduc o 'nd cu om .R ic ion d ic d fomin n ion w o di ic gu o g nci co- b qui m n n ionm n nd d nd , oici E , oduc i f of C nd, c , fo C, ow co d in Indi in d fo 2, ong C, ow co d) nd Sou w w con inu o k go nm n , o fo ou C nd, c , om n , oduc com, wi Eu o n Union Di ic 2 11/ /EU nd i m ndm n incuding m ion fo u of d uc ig m u od . i wo king o, ou u of m d ub nc fo n w, oduc w c nic , o ib .

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

[5] W cogni n ou c of c ici id u c bon mi ion co i if c .g. fom m nuf cu ing) w ic w ccoun fo w nc cu ing ou, oduc co 3 mi ion.

[6] C bon duc ion c cu d g in b in cn io 1) No u of c ici fo m nuf cu ing o , oduc u b ond w i d ib on g id b d on gion mi ion f co). 2) 'c bon in n i of k m i of 2 1 ou b in fo ou 2 3, oduc c bon u i go). C bon in n i of m i f c u of c d con n nd, oduc ion c noog . 3) 'g mi of n o ion mod i oc n ucking) b , oduc in co f ic 2 17 o 2 1) ob c, u b in n o ion mi ion of ou , oduc .

[7] W c cu mi ion ing fom u of c d ow c bon m i in ou, oduc b com, ing c bon in n i of k m i o 2 1 b in .W cu n on qu nif c bon ing fom u of c d uminum w ic m n cu mi ion oid d ik g .W, no im, ou ccoun ing of c d con n o im .

[8] G n ou g mi ion w c cu du ing if c m n m odoog in cco d nc wi IS 14 4 nd 14 44 nd d nd b d on c ook i wi 2c i nd 2 G og .

[9] W im mi ion ing fom u i w l c ici b oc ing o ou c bon mod n c ici g n db ou u i in , io fi c b d on u i m nuf cu ing oc ion im of , oduc unc .

[10] W m, m i in ou u, c in nd, ubi i of id ifi d in n um ung n nd god (8 G) cob nd i ium m nd fin in ou u, c in. id, m n k o confi m ou cing, cic nd , of ou on ib ou cing, og m. In dd ion ou ffo con id b d ng of ik incuding oci n ionm n um n ig nd go nc ik.

[11] R c d m i c im i o nc ou .

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

[13] bi d fin mb u i i —o o b n u i fo m non — fo c ook i wi 2c i id , ifi d oW b U C U 27 S nd d). U qui d c ndi ion oug m od o nw n g o ci i oW o ndfi i d 4 c n God c nd inum 1 c n) d ign ion.

[14] R on ib ou cing of wood fib i d fin d in 'Su in l ib Sp cific ion.

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

[16] kdown of U.S. i, ck ging b w ig d ik ink nd co ing cud d fom ou c cu ion of , ic con n nd, ck ging w ig .

E d otes

[17] E 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 c ook i wi 2c i . o mo info m ion i i ww n g .go . ENERGY S R nd ENERGY S R m k gi d d m k own db U.S. En ionmn o cion gnc .

c ook i wi 2c i i d wi fu c g db nd, ow db 3 W US -C ow d wi US -C o gS f 3C h (2m).

- ff ow , ow mod of m. S mi u down.
- S , ow, ow i n d u om ic f 1 minu of in c i i d f u) o b cing S , f om m nu. W k fo n wo k cc n h d.
- Id —Di on S mi on nd com, d o ding m c S. Di b ig n w d fin db ENERGY S R og m R qui m n fo Com u nd uo- ig n w un d off. Con o d o Wi- i.
- ow d no- o d Condi ion in w ic 3 W US -C ow d wi US -C o gS f 3C h (2m) i con o d o C, ow bu no con o d o m.
- ow d ffici nc g of 3 W US -C ow d wi US -C o gS f 3C h (2m) 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 .

	o er co sum tio for ac oo ir ith 2 chi		
ode	1 V	115V	2 V
ff	.13W	.13W	.1 W
S ,	.27W	.2 W	.27W
Id —Di on	3. W	3.14W	3.18W
ow d no o d	. 7W	. 7W	. 8W
ow d ffici nc	88.8	8 .1	88.8

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