



# Product Environmental Report

2022

December 2022

## Progress toward our 2030 goal

40% of manufacturing facilities are powered by renewable energy. Over 20% of manufacturing facilities are powered by 100% renewable energy.

## Responsible Sourcing

100% of our wood and wood products are sourced from responsibly managed forests. 96% of our suppliers are certified to responsible sourcing standards.

## Responsible Manufacturing

Our Supplier Code of Conduct is designed to ensure the highest standards of ethical and responsible manufacturing practices.



## Smarter chemistry

Our products are designed to be more durable and longer-lasting, reducing the need for replacement and waste.

## Log it

Our products are designed to be easy to use and maintain, reducing the need for repair and replacement.

## Recycle it

Our products are designed to be easy to recycle, reducing the need for new materials and waste.

Apple is the first product to use certified recycled steel in the battery tray.

Apple is proud to be the first product to use certified recycled steel in the battery tray.



# Our product carbon neutrality strategy

We go forward and reduce our carbon footprint by 23% during our 2023-2025 period. Our goal is to achieve net-zero emissions by 2030. We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint.

We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint. We will also focus on reducing our energy consumption and improving our energy efficiency. We will also focus on reducing our water consumption and improving our water efficiency.

## How we're reducing emissions

- **Transition to 100 percent clean electricity for manufacturing:** We are transitioning our manufacturing operations to 100% clean electricity by 2025. We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint.
- **Transition to 100 percent clean electricity for product use:** We are transitioning our product use to 100% clean electricity by 2025. We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint.
- **Prioritize non-air transportation:** We are prioritizing non-air transportation for our employees and customers. We will continue to invest in sustainable transportation options to reduce our carbon footprint.
- **Use recycled and low-carbon materials:** We are using recycled and low-carbon materials in our products. We will continue to invest in sustainable materials to reduce our carbon footprint.

## How we'll get to net zero emissions

We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint. We will also focus on reducing our energy consumption and improving our energy efficiency. We will also focus on reducing our water consumption and improving our water efficiency.

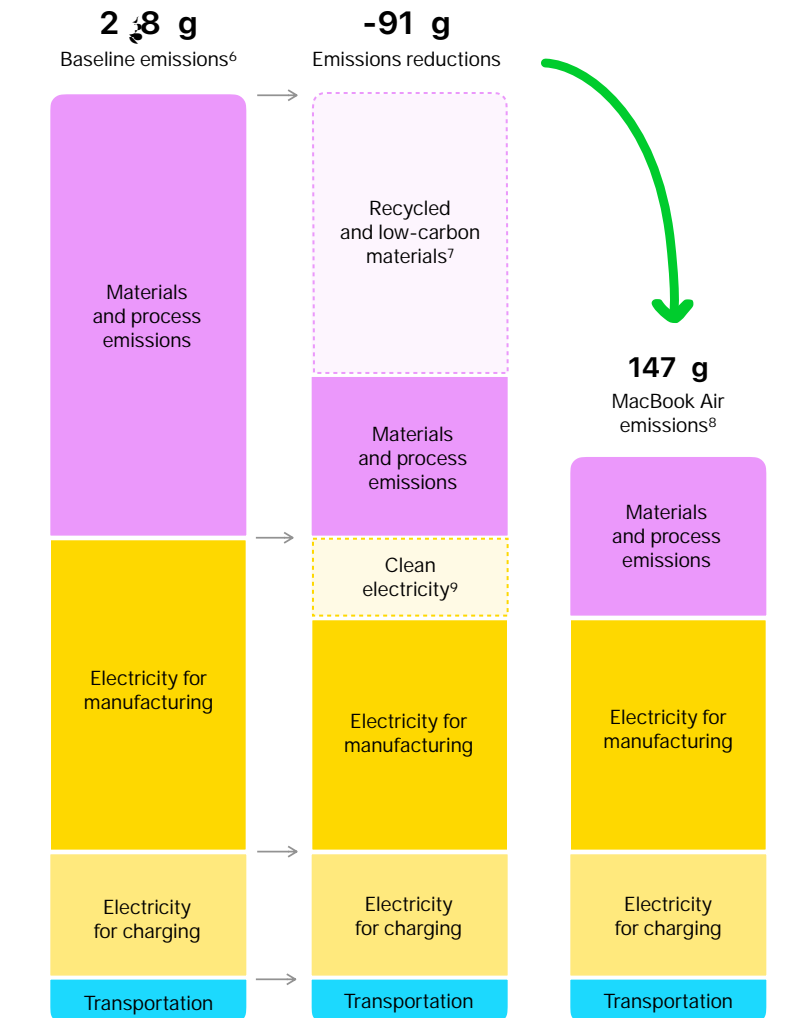
## How we're monitoring progress

We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint. We will also focus on reducing our energy consumption and improving our energy efficiency. We will also focus on reducing our water consumption and improving our water efficiency.

- No use of air conditioning, electric vehicles, or other high-carbon products.
- Use of recycled and low-carbon materials.
- Use of renewable energy for manufacturing and product use.

# Progress to reach carbon neutral

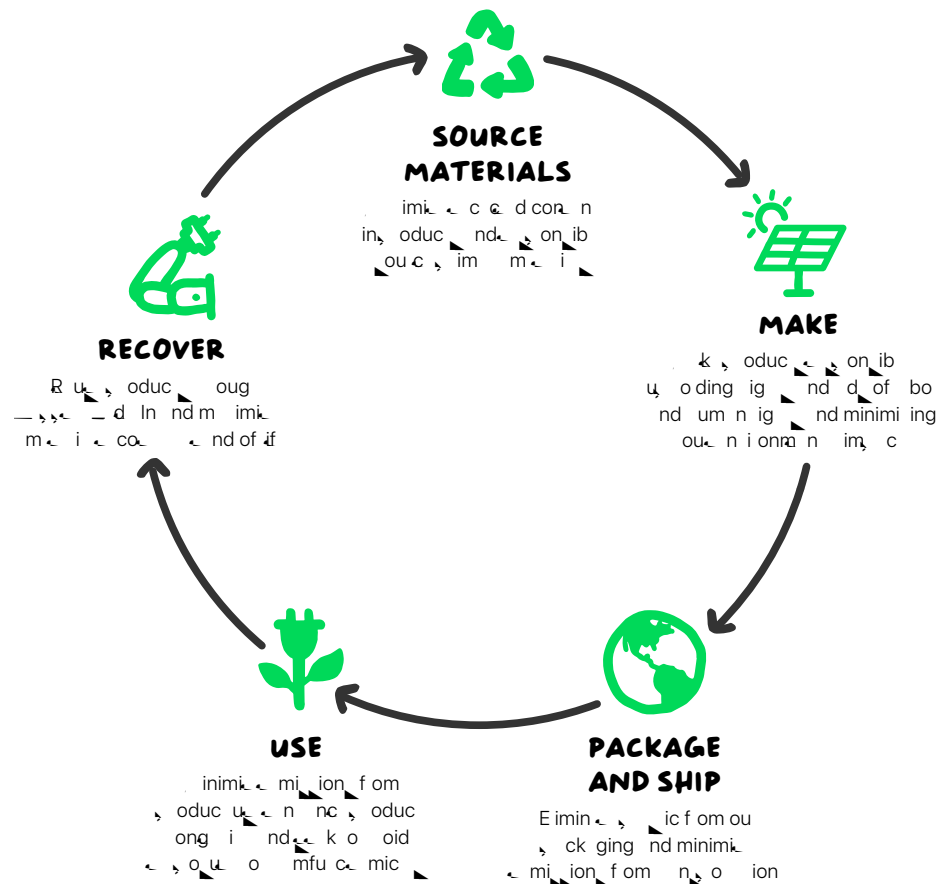
With reduced material for cookiwi, 2cib 38% can g in ou b e in .  
 cookiwi 2cib con in 4% can e e d con n including 1% can  
 e e d aluminu n o u e ducing cookiwi 2cib mi ion b bou  
 3% can. With owo king wi ou u y d i o n i ion o 1% can e e e c i c i  
 fo u y e y o duc ion. e e e c i c i o u ion u y d i e e d i m e r e d  
 o d e e e duc d cookiwi 2cib mi ion b 8% can.



# 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 source them, how we make them, how we package and ship them, how we use them, and how we recover them. We work to make big differences for our products by reducing our impact on the environment, our communities, and our customers.

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





# Source materials

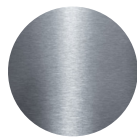
... cook i wi ... 2 c i con in 4 ... c n c e d o ... n w b e con n.1

... con ... im o n e ou c w w o k o d u c e m e i w u e nd im o o a d ... ou c on e c e d o e n w b e m e i in ou s o d u c ... nd w m k i n i o n w ... m in commi d o e e ... on i l a ou c i n g o f ... im m e i . W m s m n m e i ... o r a o e m i n o u c n d b i e i e ... nd d f o r a e n d e f i a ... o e q u i 1 ... c n o f i d n i f i d i n n u m u n g e n g o d c o b n d i u m r a e ... n d e f i a o s i c i e i n i d s u d i .<sup>10</sup> W e s o u d o b e c o g n i d w o d w i d ... d i n e e ... on i l a ou c i n g o f m i n i n o u s o d u c . u s o d u c d i g n o c o n i d ... e f o f o w o m k u e n d e c e o u s o d u c e i c i n g e u e o f u n d d o f ... 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 s a c e e n d ... e n i o n r a n .



## Rare earth elements

W u 1 ... c n e c e d e e ... r a n i n m g a ... n i n g ... 8 ... c n o f e o ... e e r a n ... i n e d i c .



## Steel

W u 2 ... c n e c e d e e i n e ... b e ... - f i f o ... .



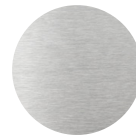
## Ti

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



## Elastomer

W e n i o n i n g f o m f o i f u - b e d ... i c o o m d f o m e n w b ... o e c e d o u c . o c c o o k i ... w i 2 c i w u 3 ... c n o m a ... c e d s i c i n 1 c o m o a n .



## Aluminum

... e e d n u m i n u m o m d o f 1 ... c n e c e d u m i n u m w i c w u e f o ... e n c o u e o f c o o k i w i 2 c i .<sup>11</sup> ... i 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 ( u m i n u m e ) f o m e e .



## Smarter chemistry

... c o o k i w i 2 c i i f e o f 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 n i c i n e d i s g ... n d r a c u 3 ... n d 1 ... c n o f e m e i i n ... c o o k i w i 2 c i e c o e d b o u R g u e d S u b n c S e c i f i c i o n . W g o b o n d ... w ' e q u i d b i m i n g o u n d ... n d e n o n e g u e d u b n c i r e s o f e ... s o d u c - r e f f o e q u i n i n d u e d i n g e o f n e n c o u g e e n i u s ... c i n . W c o n i e n i d n i f e m k u o f a 7 ... c n b m o f c d i c .



## Value

Supplier Code of Conduct is a standard for the operation of our business in and around the world. It is a way for our suppliers to form a new industry standard and build our Code.

We work with our suppliers to identify and work to reduce the environmental and social risks in our supply chain. Our Code of Conduct includes provisions on the following: environmental protection, human rights, labor practices, anti-bribe, and anti-corruption. Our Code of Conduct is a key part of our commitment to responsible business. For more information, visit [www.3m.com/suppliercodeofconduct](http://www.3m.com/suppliercodeofconduct).

### Reduce chemicals

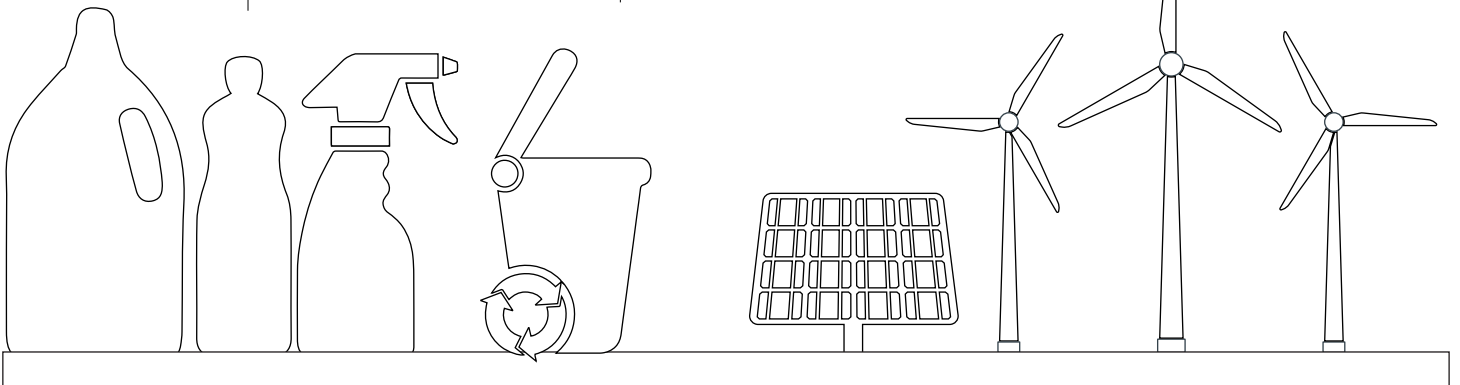
Reduce the use of hazardous chemicals in our manufacturing process. We are committed to reducing the use of hazardous chemicals in our manufacturing process. We are committed to reducing the use of hazardous chemicals in our manufacturing process. We are committed to reducing the use of hazardous chemicals in our manufacturing process.

### Zero Waste to Landfill

Reduce the amount of waste sent to landfill. We are committed to reducing the amount of waste sent to landfill. We are committed to reducing the amount of waste sent to landfill. We are committed to reducing the amount of waste sent to landfill.

### Supplier energy use

Reduce the energy consumption of our suppliers. We are committed to reducing the energy consumption of our suppliers. We are committed to reducing the energy consumption of our suppliers. We are committed to reducing the energy consumption of our suppliers.





# ac age a d Shi

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

... im, a ou, ck ging w ... wo king a imin ... ic ing ... c e d cor n nd ... ck ging a ... of ... wood fib in ou, ck ging i ... c e d o cor n ... f om ... on ib m n g d fa ...<sup>14</sup> nd w ... a e d o a ... d noug ... on ib m n g d fa ... o ca ... i gin wood fib w ... in ou, ck ging.<sup>15</sup> ... i ... n u ... wo king fa ... b ... a g ow nd con inu o e 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 ... io i ing ... c bon-in ... n k ... i, ing mod ... n i ... n ... o ... uc ... i nd oc n.

## 95%

of ... ck ging<sup>16</sup>  
i fib -b ... d du o  
ou wo k a imin ...  
... ic in, ck ging

## 45%

c e d cor n in  
fib ... ck ging

## 10%

of ... i gin wood  
fib in ... ck ging  
com ... f om ... on ib  
m n g d fa ...<sup>14</sup>





# Use

... cook i wi ... 2 c i u ... 7 ... c n ... a g ... n ...  
 ... qui m n fo ENERGY S...R.17

W d ignou, oduc ob a g e f f i a i n o n g - i n g n d f . c o o k i w i . 2 c i  
 u ... of w e n d , o w e f f i a i n c o m , o a n ... i r i g n m n g , o w c o n u m , i o n .  
 W o u n o u o w n R i b i i n d E n i o n r a n ... i n g b w e o u , o d u c g o u g  
 i g o u e ... i n g b f a e e e o u d o o . u u , o c o n i n u ... o u g o u e c , o d u c '  
 i f c e w i e g u ... of w e u d e ... o k e , d i c c u e n n d a w o k o f u o i d  
 e , i , q f i o n ... o ... i c e m i f a c ... . o d d ... m i , i o n , i d o e e e c i c i o u  
 , o d u c u w e b u i l d i n g e r a a g , a j c n d n g g i n g w i o u c u o m o  
 e d u c e n d , o i d a , o u n i k i o u , o e d c b o n i i o n o f e g i d .

## Ei erg col sum tio, of ENER Y S T R-rated roducts

... d i c c o n j e n n k m o n g e i g ... f o m i n g , o d u c e d b ENERGY S...R  
 w i c e ... c i f i c i o n ... , i c e f c e 2 ... c n m o e a g e f f i a i n d i c o n  
 e m k ... c o o k i w i . 2 c i c o n u m ... 7 ... c n ... a g ... n ... e q u i m n  
 fo ENERGY S...R.17

## esig, ed to last

... n u du b i i w ... d  
 ... c o o k i w i . 2 c i i n o u  
 R i b i i ... i n g b u i n g i g o u  
 ... i n g m o d ... i m u e  
 c u o m e ... i n c .

## ade ith smarter chemistr

W ... i g o u c o n o f o  
 m e i u e o u c - b e d  
 o n e c o m m a n d i o n f o m  
 o i c o o g i n d d m o o g i .





# Recover

Run our product with us and in new ways. It's a long if not a life cycle.

When you use our products, we're not just using them, we're making them. In our factories, we use recycled materials to create our products. It's a long if not a life cycle. We're not just using them, we're making them. In our factories, we use recycled materials to create our products. It's a long if not a life cycle.

## Apple Trade In

Our information on how to trade in your old device is available at [apple.com/trade-in](http://apple.com/trade-in).

With our new [Recycle Guide](#), you can find out how to recycle your old device. It's a long if not a life cycle. We're not just using them, we're making them. In our factories, we use recycled materials to create our products. It's a long if not a life cycle.



# Definition

**Bio-based plastics** Bio-based plastics are made from biological sources and can be used for a wide range of applications. Bio-based plastics are made from renewable resources and can be used for a wide range of applications.

**Carbon footprint** The carbon footprint of a product is the total amount of greenhouse gases (GHG) emitted during its production, use, and disposal. The carbon footprint of a product is the total amount of greenhouse gases (GHG) emitted during its production, use, and disposal.

**Reduction** Reduction is the process of decreasing the amount of waste or emissions. Reduction is the process of decreasing the amount of waste or emissions.

**Traceability** Traceability is the ability to track the origin and movement of a product. Traceability is the ability to track the origin and movement of a product.

**Use** Use is the process of consuming a product. Use is the process of consuming a product.

**End-of-life process** End-of-life process is the process of disposing of a product. End-of-life process is the process of disposing of a product.

For more information on our bio-based plastics, visit [www.bonfoos.com/en/onran/nw](http://www.bonfoos.com/en/onran/nw).

**Low-carbon materials** Low-carbon materials are materials that have a low carbon footprint. Low-carbon materials are materials that have a low carbon footprint.

**Recycled materials** Recycled materials are materials that have been recycled. Recycled materials are materials that have been recycled.

**Renewable materials** Renewable materials are materials that can be replenished. Renewable materials are materials that can be replenished.

**Supplier Clean Energy Program** The Supplier Clean Energy Program is a program that encourages suppliers to use clean energy. The Supplier Clean Energy Program is a program that encourages suppliers to use clean energy.

# Carbon Footprint

Greenhouse gas emissions were calculated during the production of the product in accordance with ISO 14047 and ISO 14048 and based on the data provided. The product is made of 20g of plastic and 12g of metal. The product is made of plastic and metal. The product is made of plastic and metal. The product is made of plastic and metal.

Greenhouse gas emissions	Product with 20g plastic and 12g metal
<b>Total product footprint</b>	<b>147 kg CO<sub>2</sub>e</b>
Greenhouse gas emissions from the production of the product (CO <sub>2</sub> e)	147 kg CO <sub>2</sub> e
Greenhouse gas emissions from the production of the product (CO <sub>2</sub> e)	147 kg CO <sub>2</sub> e
Production	0
Transportation	8
Production	22
End-of-life recycling	-1
GHG reduction credit	-38

Net carbon footprint is 147 kg CO<sub>2</sub>e.

Weight of the product is 32g, including the packaging.

Configuration	Product with 20g plastic and 12g metal
20g plastic	147 kg CO <sub>2</sub> e
12g metal	171 kg CO <sub>2</sub> e

# Et dnotes

1 oduc c e d o e a w l e cor n i e m of c i f i d e d m e i e k o e a m of e d i c n o i n c u d i n g s c k g i n g o i n b o c c o i

2 W e i m e e e c n o e c i c i e e d m i j o n i n o u m n u f c u i n g i j o u c d f o m e a e c i c i b i b u i n g o o u c b o n m o d e a r a g s o c u d b o u u s j i i n e s i o f i c e b e d o n e u s j i m n u f c u i n g o c i o n i r a o f s o d u c u n c . I n c u d d i n i n u m b j o n e a e c i c i u s e o i u s j i e s o c u d s a f s s e ' S u s j i G e n E a g o g m .

3 s s e ' R g u e d S u b n c S e c i f i c i o n d c i b s s e ' e i c i o n e u e o f c i n c a m i c u b n c i n m e i i n s s e s o d u c c c o i m n u f c u i n g s o c e n d s c k g i n g u e d f o i s i n g s o d u c o u 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 i c i e g u o g n e 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 e i . E e u s s e ' o d u c i e e o f C n d s e e c s f a C s o w c o d i n d i i n d f o 2 s o n g C s o w c o d j ) n d S o u s a e w e w c o n i n u o e k g o e n 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 w i e E u o e n U n i o n D i c k 2 1 1 6 / E U n d i r a n d r a n i n c u d i n g e m j o n f o e u e o f d u c i g e m e u o d . u s e i w o k i n g o s e o u e u e o f 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 e .

4 c o o k i w i 2 c i c i e d G o d i n g i n e U n i d S e n d C n d i n c c o d n c w i I E E E 1 0 8 . 1 o U 1 1 n d i j e d u c o n e E c o n i c o d u c E n i o n r a n e e r a n o o E E J R g i . E E e g i e c o m u d i s n d m o b i s o a b e d o r a n i o n r a n e q u i r a n i n e e n d d . o m a i n f o m i o n i j w w w e . a .

W e c o g n i t e e n e n o u c o f e c i c i e e i d u c b o r m i j o n c o e i f c e e g . f o m m n u f c u i n g ) w i c w e c c o u f o w e n e c u i n g o u s o d u c c a e 3 m i j o n .

6 C b o n e d u c i o n e c c u e d g i n b e i a c n i o 1) N o u o f e a e c i c i f o m n u f c u i n g o s o d u c u b o n d w i e d i l a o n e g i d b e d o n e g i o n e m i j o n f c o . 2) s s e ' c b o n i r a n j i o f k m e i o f 2 1 . o u b e i a e f o u 2 3 s o d u c c b o n a u i g o . C b o n i r a n j i o f m e i e f c u e o f c e d c o r n n d s o d u c i o n e c n o o g . 3) s s e ' e g m i o f n o i o n m o d i i o c n u c k i n g ) b s o d u c i a c o e e e f i c e 2 1 7 o 2 1 6 ) o b c s u e b e i a n s o i o r m i j o n o f o u s o d u c .

7 W c c u e e m i j o n i n g f o m e u e o f c e d o o w c b o n m e i i n o u s o d u c b c o m i n g e c b o n i r a n j i o f k m e i o 2 1 . b e i a . W c u e n o n q u n i f e c b o n i n g f o m e u e o f e c e d u m i n u m w i c r a n e c u e m i j o n o i d d e i k g . W s n o i m a o u c c o u n i n g o f e c e d c o r n a i r a .

8 G e n o u e g e m i j 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 i n c c o d n c w i I S 1 4 4 n d 1 4 4 4 n d d n d b e d o n . c o o k i w i 2 c i n d 2 0 G o g .

9 W e i m e e m i j o n i n g f o m u s j i e a w l e e c i c i b o c i n g o o u c b o n m o d e a e c i c i g a e d b o u u s j i i n e s i o f i c e b e d o n e u s j i m n u f c u i n g o c i o n i r a o f s o d u c u n c .

1 W m s m e i i n o u u s c i n d s u b i j i o f i d n i f i d i n n u m u n g e n n d g o d 8 G ) c o b n d i i u m r a e n d e f i a i n o u u s c i n . i d s e r a n e k o c o n f i m o u c i n g s c i c n d e s o f o u e o n i b o u c i n g s o g m . I n d d i o n o u e f f o c o n i d b o d n g o f i k i n c u d i n g o c i e n i o n r a n u m n i g n d g a n n e i k .

11 R c e d m e i c i m s s j i o e e n c o u .

12 C e m i c r e G e n S a e n 6 n c m k 3 o 4 o o e e q u i e n r a o d o o g i k U S E S f C o i c e c o n i d e d e f n d e f e d f o u e G e n S a e n 6 j c o m e e n k d e r a n o o e u e u b n c g i n 1 8 d i f f e n c i i . o m a i n f o m i o n i j w w w g e n a e n c e m i c o g .

13 e b j e d f i n e m b u s j i i o o e e b e n s s e u s j i f o m a n o a e f o c o o k i w i 2 c i e i d s e i f i d e o W e b U C 2 7 0 0 S n d d ) . U e q u i e e c n d e i o n o u g r a o d o e n w e e a g o c i e e o W e o n d f i i e e 0 4 e c n G o d 0 0 e c n n d i n u m 1 e c n ) d i g n i o n .

14 R o n i l a o u c i n g o f w o o d f i b i d f i a d i n s s e ' S u i n l e i b S e c i f i c i o n .

1 o m a i n f o m i o n b o u o u w o k o s e c n d e e e s o n i b m n g d f a s s e e e d o u E n i o n r a n o g . R s o .

16 e k d o w n o f U S e i s c k g i n g b w i g d e k i n k n d c o i n g e e c u d d f o m o u c c u i o n o f s i c c o r a n n d s c k g i n g w i g .

# Ednotes

<sup>17</sup> Energy consumption and efficiency under the bed on ENERGY STAR and required for ComUE including the following for cook i wi 2c i . o ma info m i j i [www.aga.gov](http://www.aga.gov). ENERGY STAR and ENERGY STAR kitchen gas and d m k o w a d b U.S. En i on r a n a c i o n g n c .

cook i wi 2c i j i d w i f u c g d b e n d , o w e d b e 3 W US -C o w d s e w i e US -C o g S f 3 C b e 2 m ) .

- ff ow s ow mod of e m . S e m i u down.
- S e s ow s ow e j 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 ) o b e c i n g S e s f o m e s s e r a n u . W k f o a w o k c c e n b e d .
- I d -D i e on S e m i on n d c o m e d o d i n g m c S . D i e b i g a w e d f i a d b ENERGY STAR and m R qui r a n fo ComUE nd u o- i g a w u a d o f f . C o n a e d o W i- i .
- ow d s e n o - o d C o n d i o n i n w i c e 3 W US -C o w d s e w i e US -C o g S f 3 C b e 2 m ) i c o n a e d a C s o w b u n o c o n a e d o e m .
- ow d s e e f f i c i e n c e g o f e 3 W US -C o w d s e w i e US -C o g S f 3 C b e 2 m ) r a u d e f f i c i e n c e n e d 1 e c n 7 e c n e c n n d 2 e c n o f e s o w d s e e d o u s u c u e n .

Mode	Power consumption for ac 115V		
	115V	115V	230V
ff	.13W	.13W	.13W
S e s	.27W	.27W	.27W
I d -D i e on	3.9W	3.14W	3.18W
ow d s e n o o d	.7W	.7W	.8W
ow d s e e f f i c i e n c e	88.8	89.1	88.8

<sup>18</sup> d-in u b e d on e condition e nd config i on of ou d -in d i c n d m o b w e n o n i a n d i n - a d -in . You m u b e 18 e o d . I n - a d -in e qui s e n i o n of i d g o e n r a n - i u d s o o I D p o c w m e qui i n g i i n f o m i o n ) \_ d d i o n e m f o m s s e a s s e d -in , a m s s .