



# Product Environmental Report

Cook i wi 2 c i

December 2022

## Progress toward our 2030 goal

40% recycled with content  
Over 20% of manufacturing facilities  
located from U.S. to RAG  
Q1 2022

## Responsible Sourcing

100% recycled content in wood fiber  
96% fiber-based product work  
eliminating ink

## Responsible Manufacturing

Supplier Code of Conduct  
and disclosure of  
information in our  
industry.



## Smarter chemistry

- nickel die
- copper
- chromium and nickel
- C
- titanium

## Log it

— new digital  
— cook i wi 2 c i in our R i b i  
— ing b u ing i go ou ing r a o d  
— i m u e c u o m e y i n c

## Recycle

— R u n o u d i c o u g  
— d l n d w ' g k i  
— a w i f o e c e i f o f e .

— first le product to use certified recycled steel—  
— o i the batter tra

— i e s o i n c u d d c u e n of, o d u c u n c . o d u c u i o n e b e d o n U.S. c o n f i g u r a t i o n o f c o o k i w i 2 c i .  
— o d u c c o n f o o , i n c c u i o n i n c u d i n - b o c c o i w c k g i n g .



# 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.

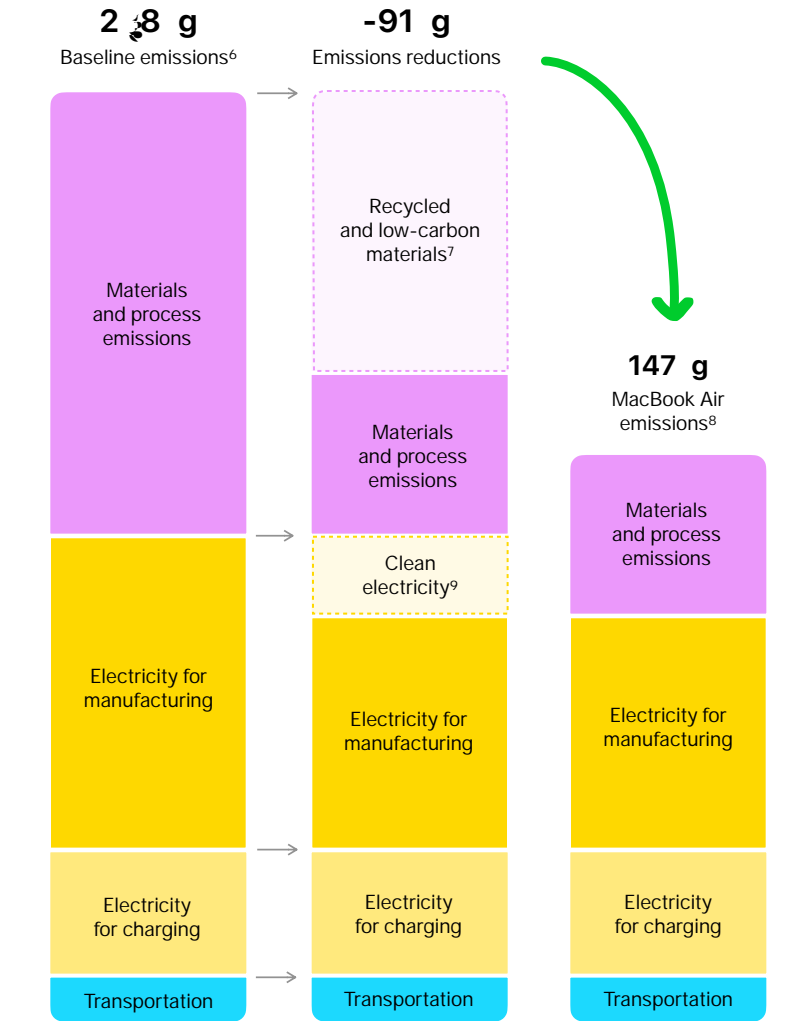
## How we're monitoring progress

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 or other high-energy-consuming equipment in our facilities.
- Use of recycled and low-carbon materials in our products.
- Use of green building materials in our facilities.

# Progress to reach carbon neutral

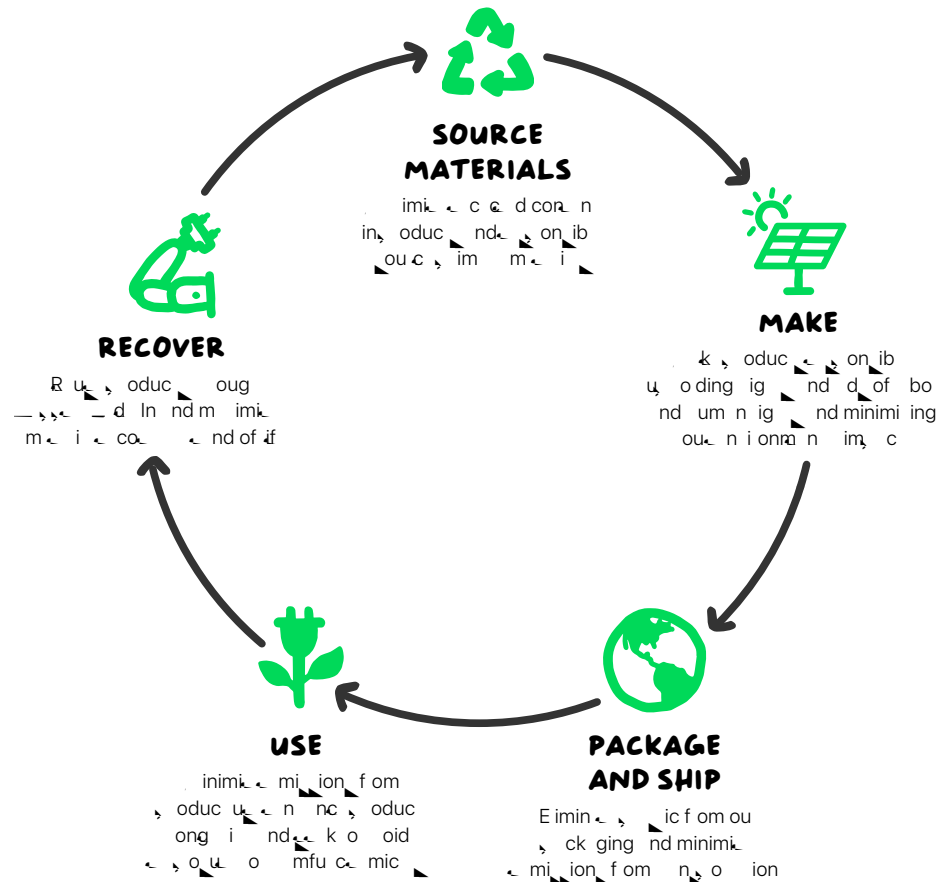
We reduced emissions for MacBook Air by 20% by 2020, and by 38% by 2022. We are on track to reach carbon neutrality for MacBook Air by 2025. We are committed to reducing MacBook Air emissions by 50% by 2030. We are committed to reducing MacBook Air emissions by 80% by 2040.



# 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 planet.

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





# Source materials

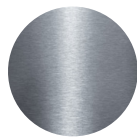
... cook i wi ... 2 c i con in 4 ... c n c e d o ... n w b e con n.1

... 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 l 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 e c e a 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 ... .



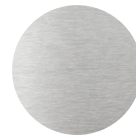
## Ti

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 l ... n i o n i n g f o m f o i f u - b e d ... s ... i c o o m d f o m e n w b ... o e c e d o u c . o o c o o k i ... w i ... 2 c i w u 3 ... c n o m a ... e c e d s ... i c i n 1 c o m p 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 a ) 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 .<sup>3</sup> 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

Our Supplier Code of Conduct is a key element of our commitment to ethical and responsible business practices. It sets out the standards we expect of our suppliers and partners, covering areas such as human rights, labor practices, environmental protection, and anti-corruption. We believe that ethical and responsible business practices are essential for long-term success and sustainable growth.

We work closely with our suppliers to identify and address any areas of concern. We provide training and support to help our suppliers understand and meet the requirements of our Code of Conduct. We also conduct regular audits to ensure compliance. For more information, please visit [www.3m.com/SupplierCode](http://www.3m.com/SupplierCode).

### Reduce Chemicals

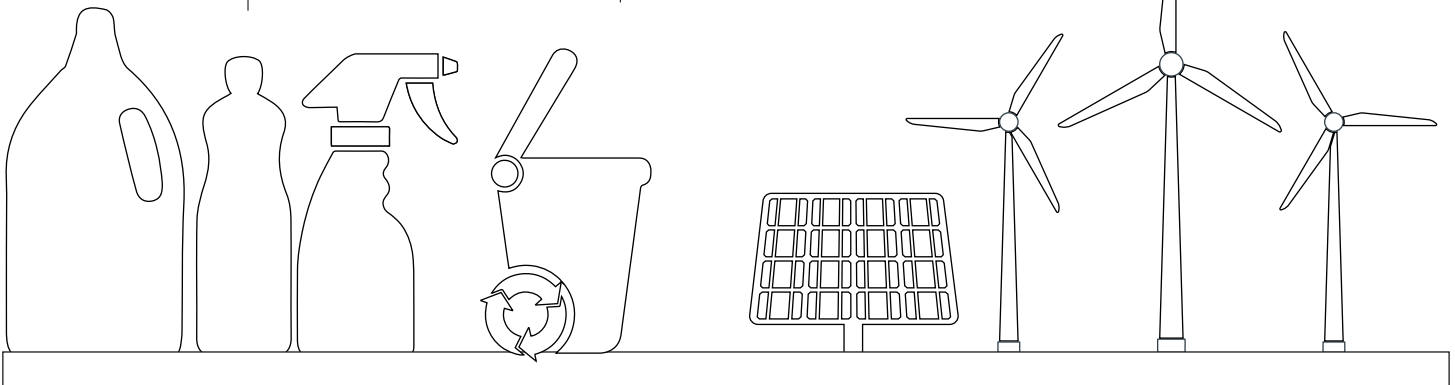
Our commitment to reducing chemicals is a key part of our environmental strategy. We are working to eliminate the use of hazardous substances and reduce the overall volume of chemicals used in our products and processes. This helps to minimize the risk of environmental contamination and protect the health and safety of our employees and the community.

### Zero Waste to Landfill

Our goal is to achieve zero waste to landfill by 2025. We are implementing a variety of waste reduction strategies, including recycling, composting, and energy recovery. We are also working to reduce the amount of waste generated in our operations and to ensure that any waste that is generated is properly managed and disposed of.

### Sustainable Energy Use

Our commitment to sustainable energy use is a key part of our environmental strategy. We are working to increase the use of renewable energy sources, such as wind, solar, and hydro. We are also implementing energy efficiency measures to reduce our overall energy consumption and carbon footprint.





# 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 in ... 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 ... e 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 ... i o i 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> ... fib -b ... d du o ... ou wo k a imin ... s ... 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 o b e 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 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 e w e b u i l d i n g e r a a g , e 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 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

e 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. Our goal is to ensure that our products are made from recycled materials.

When you use our products, we use recycled materials. Our goal is to ensure that our products are made from recycled materials. We use recycled materials in our products. We use recycled materials in our products. We use recycled materials in our products.

## The Trade In

Our information on how we collect our products and of if you

[apple.com/trade-in](http://apple.com/trade-in)

We're going to [Recycle Guide](#), our guide to help you recycle your old products. Our guide to help you recycle your old products. Our guide to help you recycle your old products.



# 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 that are emitted during its production, use, and disposal. The carbon footprint of a product is the total amount of greenhouse gases that are emitted during its production, use, and disposal.

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

**Transport** Transport is the process of moving goods or people from one location to another. Transport is the process of moving goods or people from one location to another.

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

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

For more information on our products, visit [www.bonfo.com/en/online](http://www.bonfo.com/en/online).

**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 14044 and based on the data provided in the 2023 Product Environmental Footprint (PEF) report. The data is based on the 2023 Product Environmental Footprint (PEF) report. The data is based on the 2023 Product Environmental Footprint (PEF) report.

Product	Carbon Footprint (kg CO <sub>2</sub> e)
Product A	147
Product B	171
Product C	147
Product D	171
Product E	147
Product F	171
Product G	147
Product H	171
Product I	147
Product J	171
Product K	147
Product L	171
Product M	147
Product N	171
Product O	147
Product P	171
Product Q	147
Product R	171
Product S	147
Product T	171
Product U	147
Product V	171
Product W	147
Product X	171
Product Y	147
Product Z	171

Not including the following items:

Waste generated during production of the product in different configurations

Configuration	Carbon Footprint (kg CO <sub>2</sub> e)
Configuration A	147
Configuration B	171
Configuration C	147
Configuration D	171
Configuration E	147
Configuration F	171
Configuration G	147
Configuration H	171
Configuration I	147
Configuration J	171
Configuration K	147
Configuration L	171
Configuration M	147
Configuration N	171
Configuration O	147
Configuration P	171
Configuration Q	147
Configuration R	171
Configuration S	147
Configuration T	171
Configuration U	147
Configuration V	171
Configuration W	147
Configuration X	171
Configuration Y	147
Configuration Z	171

# Et dnotes

- 1 oduc e e do e a w la cor n i e m of c ifi d e e d m e i e k o e a m of e d ic no incuding, ck ging o in-bo cc ai
- 2 We im 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 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 o f c i n 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 a 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 a i . E u s s e s 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 o f d u c i g e m e u o d . s s e i w o k i n g o s e o u e u 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 l 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 i [www.e.a](http://www.e.a) .
- 5 We cogni 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 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 e c e d c o r a 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 s 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 o f e c e d o o w c b o n m e i i n o u s o d u c b 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 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 a 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 We im e e m i j o n i n g f o m u s j i e a w l a 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 .
- 10 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 l a 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 e d m e i c i m s s e i o e n c o u .
- 12 C e m i c r e G e n S a e n @ b 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 s e f e d f o u . G e n S a e n @ 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 i [www.g.e.n.e.n.c.mic.o.g](http://www.g.e.n.e.n.c.mic.o.g) .
- 13 e b i 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 .
- 15 o m a i n f o m i o n b o u o u w o k o s a e c n d a 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 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 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 required for ComUE and 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 y 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 y 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 operation with 2 chi		
	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 y	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 q u i 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 q u i 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 e .

© 2023, Inc. ig e e d s s e e o g a s s e s s e W c H o m o d i d i d S i o a e c o o k i e c o g o m c S S n d w o S e d m k o f s s e I n c . e g e e d i n e U . S . n d o e c o u n j i n d g i o n e c o o k i e i w i 2 c i j i d m k o f s s e I n c . s s e S a i e i c m k o f s s e I n c . e g e e d i n e U . S . n d o e c o u n j i n d e g i o n . I S i e d m k o e g e e d d m k o f C i c o i n e U . S . n d o e c o u n j i n d i u d u n d i c n e . ENERGY STAR e ENERGY STAR k e e g e e d d m k o w a d b e U . S . E n i o n r a n a c i o n g n c . e s o d u c n d c o m s n n r a n i o a d e e i n m b e d m k o f e i e c k c o m s a i e .