



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

100% of our manufacturing facilities are certified to the Responsible Sourcing Code of Conduct. 100% of our manufacturing facilities are certified to the Responsible Manufacturing Code of Conduct.



Smarter chemistry

100% of our products are made with 100% recycled materials. 100% of our products are made with 100% recycled materials.

Log it

100% of our products are made with 100% recycled materials. 100% of our products are made with 100% recycled materials.

Recycle it

100% of our products are made with 100% recycled materials. 100% of our products are made with 100% recycled materials.

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

Apple is 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 will transition our manufacturing operations to 100% clean electricity by 2030. 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 will transition our product use to 100% clean electricity by 2030. We will continue to invest in renewable energy and sustainable practices to reduce our carbon footprint.
- **Prioritize non-air transportation:** We will prioritize 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 will use recycled and low-carbon materials in our products and packaging. 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.

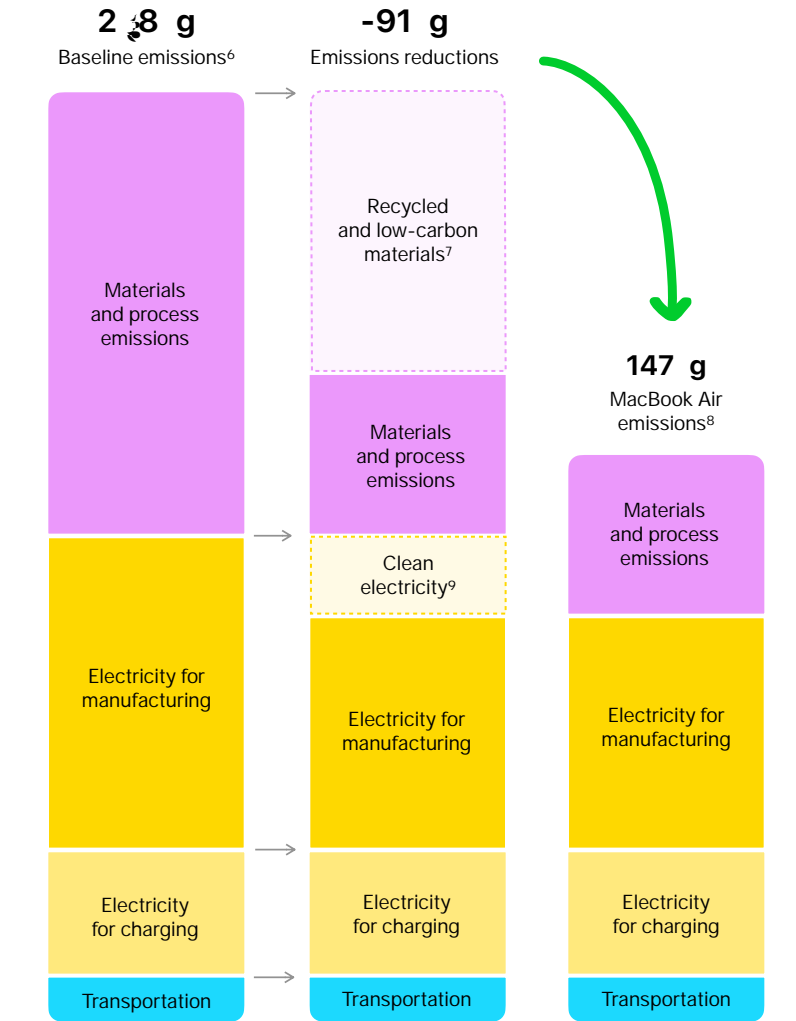
How we're monitoring progress

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 for manufacturing operations.
- 100% of our energy consumption will be from renewable sources.
- 100% of our water consumption will be from sustainable sources.

Progress to reach carbon neutral

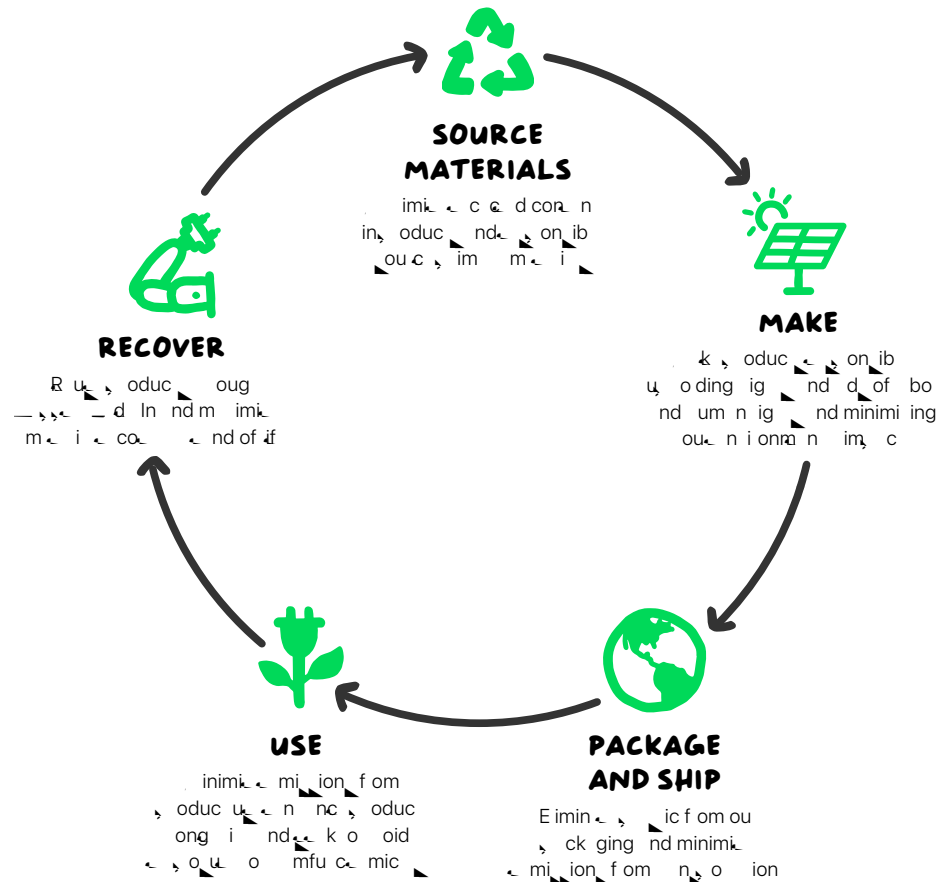
We reduced emissions for MacBook Air by 20% by 2020, a 38% reduction in our baseline. To reach carbon neutrality by 2030, we need to reduce emissions by 91% from our baseline. This includes 1% from recycled and low-carbon materials, 3% from clean electricity, and 87% from other sources. We are working with our suppliers on a number of initiatives to reduce emissions. We are committed to reaching our goal of carbon neutrality by 2030.



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

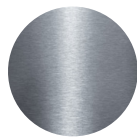
... cook i wi ... 2 c i con in 4 ... c n c e d o ... n w b e con n.1

... 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 .¹⁰ 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



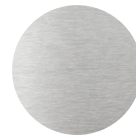
Ti

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 .¹¹ ... 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 .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 guide our business.

We work with our suppliers to identify and work on areas where we can improve our business and reduce our environmental impact. We require our suppliers to include environmental clauses in their contracts. Our findings from our audits are shared with our suppliers. For more information, visit www.3m.com/suppliercodeofconduct.

Reduce chemicals

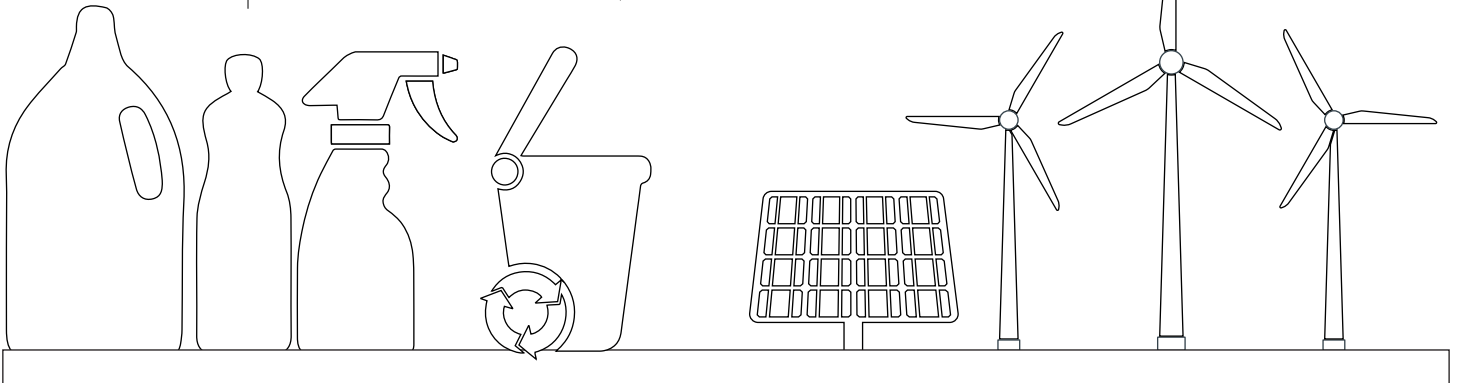
Our biodegradable cleaning products are designed to be safe for the environment and our employees. We are committed to reducing our chemical footprint and are working on developing new products that are safer and more sustainable.¹²

Zero Waste to Landfill

Our biodegradable cleaning products are designed to be safe for the environment and our employees. We are committed to reducing our chemical footprint and are working on developing new products that are safer and more sustainable.¹³

Supplier energy use

Our 2020 energy footprint is 1.2 million metric tons of CO₂ equivalent. We are committed to reducing our energy footprint and are working on developing new products that are safer and more sustainable.²





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 cor n ... on ib ... ou c d wood fib .

... im, a ou, ck ging w ... wo king e 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 ...¹⁴ nd w ... e e d o e ... d noug ... on ib
 m n g d fa ... o ca ... i gin wood fib w ... in ou, ck ging.¹⁵ ... i ... n u
 wo king fa ... e b ... o 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 ging¹⁶
 i fib -b ... d du o
 ou wo k e 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 ...¹⁴





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 s, 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 s o w e f f i a i n c o m o a n ... i r i g n m n g s 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 s 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 s o c o n i n u ... o u g o u e c s o d u c '
 i f c e w i e g u ... of w e u d e ... o k e s d i c c u e n n d a w o k o f u o i d
 e s i s q f i o n o ... i c e m i f a c ... o d d e m i i o n i d o e e e c i c i o u
 s o d u c u w e b u i l d i n g e r a a g s 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 s o i d a s o u n i k i o u s 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 s o d u c e d b ENERGY S...R
 w i c e c i f i c i o n ... s 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 d u 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 s s i g o 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. Using our recycling process.

When you use our products, we take them back and we'll make them into new products. Our goal is to create a circular economy. We'll use our recycling process to create new products. We'll use our recycling process to create new products. We'll use our recycling process to create new products.

Apple Trade In

Our information on how our products are made and how they are recycled.

apple.com/trade-in

We're going to create a circular economy. We'll use our recycling process to create new products. We'll use our recycling process to create new products. We'll use our recycling process to create new 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 (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.

Transfer Transfer is the process of moving something from one place to another. Transfer is the process of moving something from one place 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.

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 in the 2022 GRI report. The carbon footprint is based on the production of the product, including the production of the components, the production of the in-box components, and the packaging.

| Greenhouse gas emissions | Product with 256GB storage |
|---|-------------------------------|
| Total product footprint | 147 kg CO₂e |
| Greenhouse gas emissions from electricity (CO ₂ e) | kg CO ₂ e |
| Greenhouse gas emissions from production (CO ₂ e) | 147 kg CO ₂ e |
| Production | 0 |
| Manufacturing | 8 |
| Production | 22 |
| End-of-life recycling | -1 |
| GHG reduction credit | -38 |

Net carbon footprint is 147 kg CO₂e.

Weighted carbon footprint of the product is based on the different configurations.

| Configuration | Product with 256GB storage |
|---------------|----------------------------|
| 256GB storage | 147 kg CO ₂ e |
| 128GB storage | 171 kg CO ₂ e |

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 including, 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 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 j 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 x c i f i c i o n d c i b s s e ' e i c i o n o n e u e 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 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 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 a 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 . 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 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 u 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 .
- 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 f c e e g . f o m m n u f c u i n g) w i c w 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 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 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 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 a n a i r a .
- 8 G e n o u 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 ' o e 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 e d f o u e . 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.a.e.n.c.e.m.i.c.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 x 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

¹⁷ Energy consumption and efficiency under the bed on ENERGY STAR and MRL requirements for Computed including the following: cook i wi 2 c i . o m a i n f o m i o n i j i www.energystar.gov. ENERGY STAR and ENERGY STAR kitchen guidelines and m k o w a d b e U.S. En i o n r a n a c i o n g n c .

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

- ff o w s o w m o d o f e m . S e m i u d o w n .
- S e s o w s o w e i e r e d u o m i c f 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 o n S e m i o n 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 E N E R G Y S T A R o g m R q u i r a n f o C o m p u t e r n d u o - i g a w u a d o f f . C o n a e d o W i - i .
- o w d s e n o - o d C o n d i o n i n w i c e 3 W U S - C o w d s e w i e U S - 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 .
- o w d s e e f f i c i e n c e g o f e 3 W U S - C o w d s e w i e U S - 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 power with 2 chi | | |
|-------------------------------|---|-------|-------|
| | 115V | 115V | 230V |
| ff | .13W | .13W | .13W |
| S e s | .27W | .27W | .27W |
| I d - D i e o n | 3.9W | 3.14W | 3.18W |
| o w d s e n o o d | .7W | .7W | .8W |
| o w d s e e f f i c i e n c e | 88.8 | 89.1 | 88.8 |

¹⁸ d - i n u b e d o n e c o n d i o n e n d c o n f i g u r a t i o n o f o u d - i n d i c a t o r b w e n o n i a n d i n - a d - i n . Y o u m u b e 18 e o d . I n - a d - i n e q u i e n t i o n o f 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 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 - i n , a m s s .