

## What Consumers Need to Know to Save Energy, Water and Money

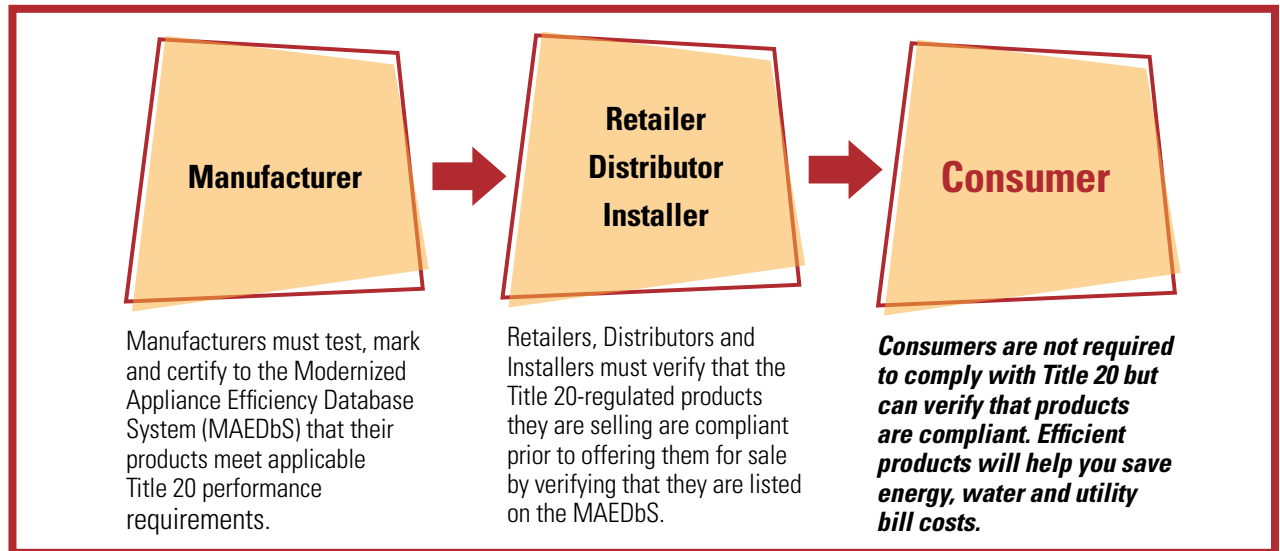
The [California Appliance Efficiency Regulations](#) (Title 20), combined with federal appliance standards, set minimum efficiency levels for energy and water consumption in appliances.

### What products are regulated by Title 20?

Title 20 regulates consumer, commercial and industrial appliances. Here are some examples of consumer appliances:

- Air conditioners, heating equipment and fans
- Clothes washers and dryers
- Computers and monitors
- Dishwashers
- Lighting products
- Irrigation products
- Plumbing fittings and fixtures
- Pool and spa equipment
- Refrigerators, refrigerator-freezers and freezers
- Televisions, and consumer audio and video equipment
- Water heaters

### What's my role?



**Figure 1.** Title 20 Supply Chain – Your Role

### How can I make sure I am buying energy or water efficient products?

The California Energy Commission's [Modernized Appliance Efficiency Database System](#) (MAEDbS) contains all federally and state-regulated appliances that are legally allowed to be sold in California. If a product is not listed in the MAEDbS, it cannot legally be sold to you in California. Each certified product has information on its energy and/or water consumption (in addition to other features) which can help you determine the product that is best for you and can help you save the most on your utility bills.

To find out more about how to search the MAEDbS, take this [On-Demand Energy Code Ace training](#).

### How can I tell which products are more efficient?

Every appliance has its own way of being measured for efficiency. For example, refrigerators are rated by annual energy use in kilowatt-hours (kWh) per year. Most residential air conditioners are rated by their energy efficiency ratio (EER) – the higher the EER, the more efficient it is. A water heater's energy factor determines its efficiency, so look for the water heater with the highest energy factor. Once you know the efficiency metric and understand what it represents, you'll be able to identify higher efficiency products.



## Why is Title 20 important?

Rising energy and water costs, along with growing climate change concerns make appliance efficiency increasingly important to everyone, including consumers.

Saving Money	Saving the Environment
<p>Not only does energy and water efficiency benefit our environment, it also helps consumers save money on utility bills – more than an estimated \$5.7 billion annually across California! It's important to note that efficient appliances save money over the lifetime of the product even if they may cost more upfront.</p> <ul style="list-style-type: none"><li>• A \$650 refrigerator that will add \$600 to your electricity bill over its average 13-year life becomes a \$1,250 refrigerator</li><li>• On the other hand, a more efficient \$700 refrigerator with a lifetime energy cost of \$200 becomes a \$900 refrigerator</li></ul> <p>In some instances, efficient products will not differ much in upfront cost compared to inefficient products.</p> <ul style="list-style-type: none"><li>• An efficient showerhead that has a flow rate of 1.8 gallons/minute or less can save more than \$450 over its lifetime compared to a similar showerhead with a flow rate of 2.5 gallons/minute</li></ul>	<p>As California's population has grown, electricity usage has nearly doubled. Similarly, the increased demand for water makes conservation critical in our drought-prone state.</p> <p>In 2017, the California Energy Commission estimated that appliance standards save Californians more than 34,000 GWh of electricity annually, resulting in a reduction of GHG emissions equivalent to those from 5.2 million passenger vehicles.</p> <p>Annual water savings are estimated at as much as 277 billion gallons. That's more water than a city of 100,000 would use in 73 years.</p>

### If the supply chain complies with Title 20, California consumers can save...



**34,000+ GWh**  
annually

*equivalent to roughly*

**5 million cars**  
off the road



**\$5.7+ billion**  
annually in energy bill savings

*equivalent to roughly*

**25%** of Californians' total  
annual utility bills for electricity



**277+ billion**  
gallons of water annually

*equivalent to the indoor  
water needs of*

**a city of 100,000**  
for 73 years



## For More Information

### CALIFORNIA ENERGY COMMISSION

[www.energy.ca.gov](http://www.energy.ca.gov)

#### Appliances Call Center

Call: (888) 838-1467 or outside California (916) 651-7100

Email: [Appliances@energy.ca.gov](mailto:Appliances@energy.ca.gov)

#### California Appliance Efficiency Standards Site

[bit.ly/3zd5eP1](http://bit.ly/3zd5eP1)

#### Modernized Appliance Efficiency Database (MAEDbS)

[bit.ly/MAEDbS](http://bit.ly/MAEDbS)



[EnergyCodeAce.com](http://EnergyCodeAce.com)

Online “one-stop-shop” with no-cost tools, training and resources on compliance requirements of Title 24, Part 6 and Title 20

Email: [title20@energycodeace.com](mailto:title20@energycodeace.com)



#### Tools

Interactive tools to help you understand the compliance process, required forms, installation techniques and energy efficiency regulations applicable to building projects and appliances in California

#### Timeline Ace

[energycodeace.com/timeline](http://energycodeace.com/timeline)

An interactive tool for schedules of Title 24, Title 20 and Federal code changes

#### Reference Ace

[energycodeace.com/content/reference-ace-t20-tool](http://energycodeace.com/content/reference-ace-t20-tool)

Tool to help navigate the Title 20 Standards documents



#### Training

Portfolio of on-demand and live (in-person and online) training options

#### Title 20 Training Courses

[energycodeace.com/content/title-20-training/](http://energycodeace.com/content/title-20-training/)



#### Resources

Downloadable materials with guidance on how and when to comply with California’s building and appliance energy efficiency standards

#### Fact Sheets

[energycodeace.com/content/resources-fact-sheets](http://energycodeace.com/content/resources-fact-sheets)

Filter for “Title 20” under “Energy Code & Regs” to discover all our fact sheets on Title 20 processes and regulated appliances.

**Create an account on the Energy Code Ace site and select an industry role for your profile in order to receive messages about all our offerings!**



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