

State Appliance Standards: The Best Energy Saving Policy You've Never Heard Of



Appliance Standards Awareness Project & Energy Solutions

June 5, 2025

Housekeeping

- Attendees please stay muted
- Questions? Enter them in the question box
- Presentation will be recorded and sent out after

Presenters

Kit White, Manager, Legislative & Regulatory Affairs
Midwest Energy Efficiency Alliance

Brian Fadie, State Policy Manager,
Appliance Standard Awareness Project

Claire Miziolek, Senior Manager,
Energy Solutions

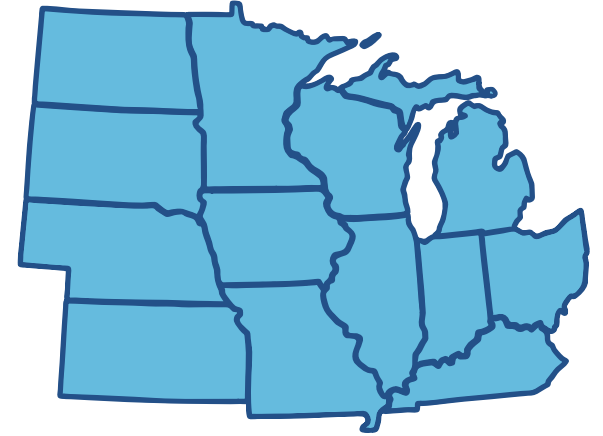
AGENDA

- About the Midwest Energy Efficiency Alliance (MEEA)
- State Appliance Standards
- Implementing a State Appliance Standards Program
- Federal Standards

Who We Are

The Midwest Energy Efficiency Alliance (MEEA) is a collaborative network, promoting energy efficiency to optimize energy generation, reduce consumption, create jobs and decrease carbon emissions in all Midwest communities.

MEEA is a non-profit membership organization with 170+ members, including:



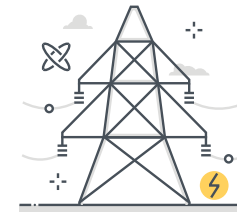
Energy Service
Companies &
Contractors



State & Local
Governments



Academic &
Research Institutions



Electric &
Gas Utilities



Community-based
Organizations

MEEA Membership

Join the MEEA Network

Member Benefits Include:

- Networking & Connections
- Member Discounts
- Committees & Working Groups
- Access to MEEA's Team of Experts
- Staying Up to Date on Industry News
- Increased Visibility for Your Organization

**Request a
Membership Quote**



**Schedule a Call with
Membership Team**



POLL

State Level Appliance Efficiency Standards

Brian Fadie, State Policy Manager
June 2025

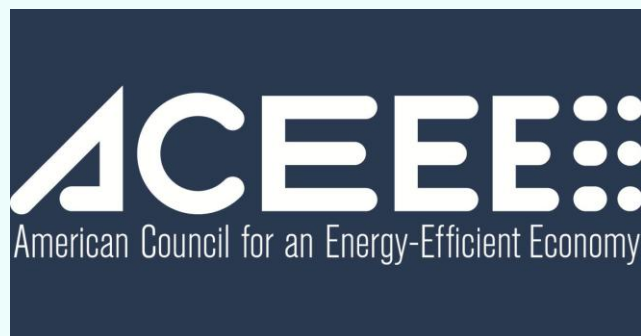


About us



ASAP is a team within the non-profit ACEEE.

We work to advance cost-effective appliance and efficiency standards at the state and federal level.

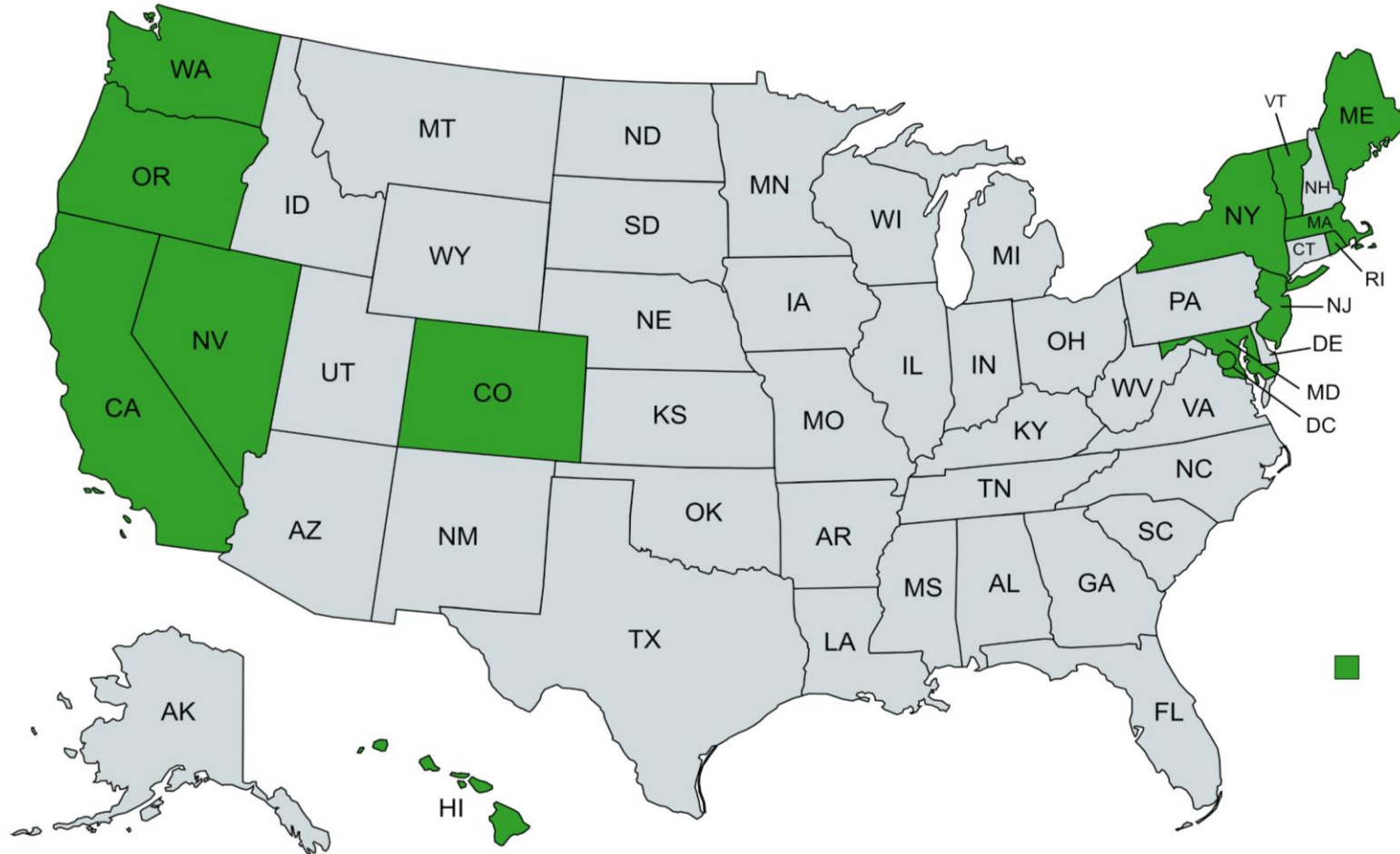


Appliance Efficiency Standards 101

- Setting minimum energy or water efficiency requirements for **the sale** of certain new products
- Federal government has set standards for many products, but not all
- In general, states can set efficiency standards for any product the federal government has not
- Since 1970s states have adopted appliance standards first, leading to federal standards

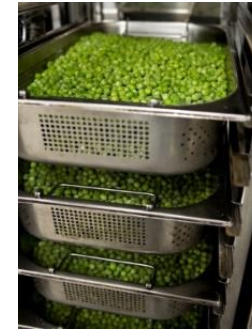


13 states and DC have adopted new appliance standards since 2012



- Adopted via legislation first
- Some state agencies now have authority to adopt new standards via rulemaking

2025 ASAP Model Bill (19 Products)



Why These Products?

They meet key criteria

- **No federal standard** (so states can set standards)
- **Existing efficiency specification available from trusted sources** for states to reference
 - ENERGY STAR, California Energy Commission, or industry created
 - Example: “**Commercial Fryers sold in the state shall meet the requirements of ENERGY STAR Version 2.0 for Commercial Fryers.**”
- **Good consumer choice:** multiple manufacturers already make products meeting the proposed standards
- **Confirmed savings** with market data



Example Savings (IL)

Energy, Water, Air Pollution, Utility Bills

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	222	–	–	8.4	11.2	24.8	16.5
Commercial dishwashers	637	8.2	11.3	393.6	32.8	502.9	367.7
Commercial fryers	43	29.9	–	1356.2	2.2	1586.1	292.2
Commercial ovens	425	3.1	–	155.3	21.6	210.1	72.1
Commercial steam cookers	136	1.3	3.3	64.0	6.9	83.9	93.1
Faucets	2,043	23.2	97.0	1130.5	105.2	1458.8	2482.5
Gas fireplaces	–	8.7	–	392.4	–	458.1	94.4
High CRI fluorescent lamps	652	–	–	27.2	41.7	80.2	67.6
Portable electric spas	3,208	–	–	122.3	166.5	361.5	472.7
Residential ventilating fans	248	–	–	9.4	12.4	27.7	36.8
Server power supplies	2,325	–	–	90.2	125.6	266.8	230.8
Showerheads	1,525	17.3	49.5	843.0	78.5	1087.8	1397.1
Spray sprinkler bodies	–	–	221.7	–	–	–	4409.8
Toilets (water closets)	–	–	33.8	–	–	–	684.4
Urinals	–	–	5.0	–	–	–	99.2
Water coolers	1,409	–	–	53.6	72.5	158.4	140.6
Total	12,874	92	421	4,646	677	6,307	10,957

Saving

- 12,874 GWh
- \$10.9 Billion

National Consumer Advocate Support



Consumer Federation of America



Contact

Brian Fadie

bfadie@standardsASAP.org



ASAP
APPLIANCE STANDARDS
AWARENESS PROJECT



State Appliance Standards: Where the Rubber Meets the Road

Claire Miziolek

June 5, 2025

Midwest Energy Efficiency Alliance



Energy Solutions

Celebrating 30 years

At Energy Solutions we focus on the big impacts. For 30 years our innovative, market-based solutions have been leading the industry to deliver large-scale energy, carbon, and water-use savings.



What are State Appliance Standards?



- Appliance standards set minimum efficiency requirements for new products.
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- Standards are usually analyzed to ensure cost-effectiveness for consumers and technical feasibility for the market (i.e., compliant products should still provide the same level of service and quality)
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- The intent behind standards is to reduce energy and water consumption, greenhouse gas emissions, and utility bill costs for consumers.
 - They remove the least-efficient, worst-performing products from the market.
-

Reminder !

U.S. DOE sets federal standards for a wide range of products, including many home appliances, lighting products, and commercial and industrial equipment. In most cases, states can only set efficiency standards for product categories not covered by U.S. DOE. This presentation will focus on those state standards.

Appliance Standard Benefits (State and Federal)



For states

- Meet energy and water conservation targets
- Meet GHG emission reduction goals



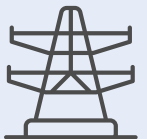
For customers

- High efficiency equipment in-stock at retailers
- Energy & water savings
- Cost savings on utility bills



Market actors

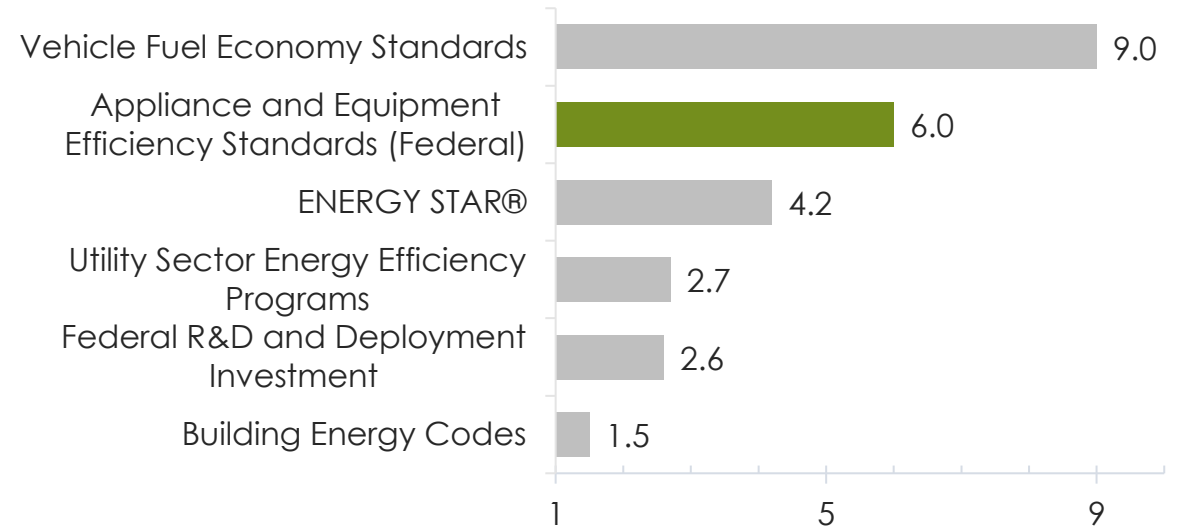
- Increased customer satisfaction for more efficient products



For utilities

- Increased adoption of EE equipment and Flexible Demand Appliance Standards have a variety of impactful benefits on the grid
- Potential to claim savings for supporting standards development and compliance

For Reference: Estimated Energy Savings from Major US Efficiency Policies and Programs, 2017



Units are in quad BTUs.

Source: [American Council for an Energy-Efficient Economy](#)

Example of Impact: Potential Standards in Minnesota

Minnesota has not set appliance standards beyond those required by the federal government.

Example Savings in MN

Example annual savings in 2030:



170 GWh Electricity



728 BBtu Natural Gas



63,000 metric tons CO₂



\$59M Annual utility bill (in 2023 dollars)

Savings estimates are for 16 example categories assuming a compliance date of 2027.

These impacts [more than double](#) by 2040.

Reference: [Appliance Standards Awareness Project](#)

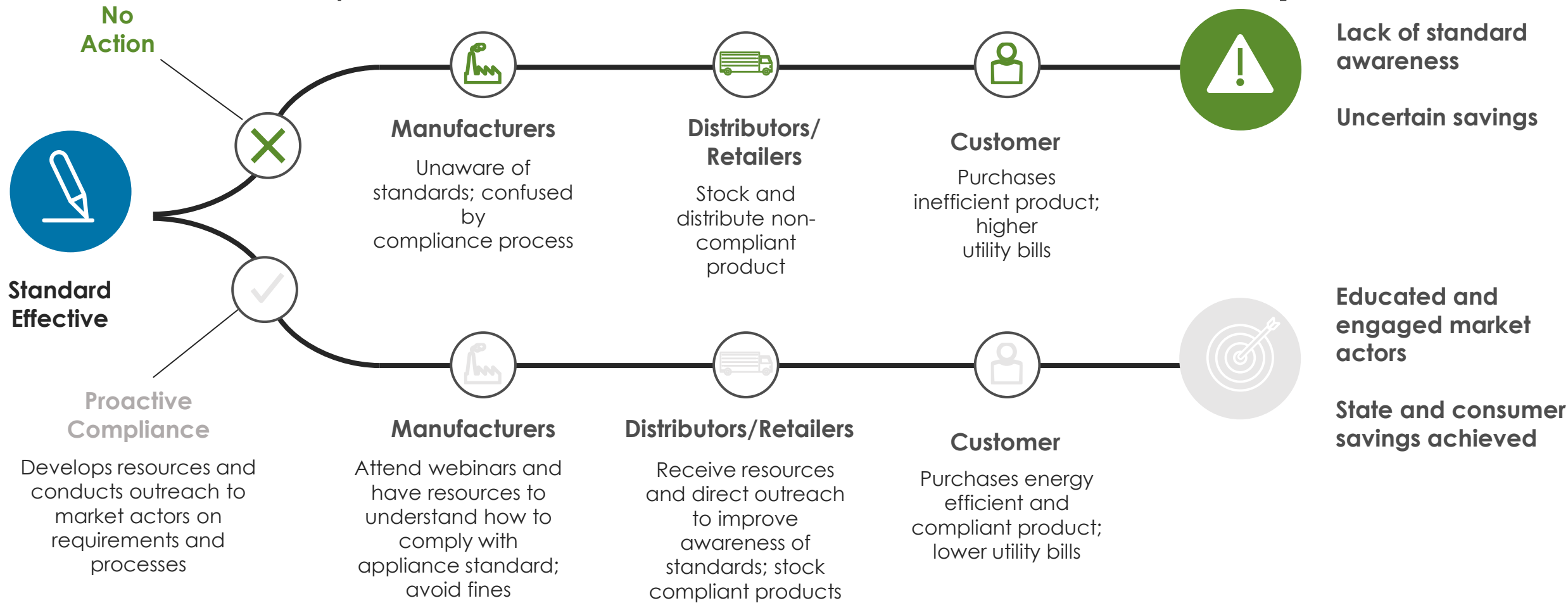


But What Happens Once a Standard Bill is Passed....

For more, check out 2022 ACEEE Summer Study
Paper:

[Getting the Most out of State Standards](#)

Standards Impacts are Achieved When There is Compliance



As new states have started to pass standards, we have discovered that many market actors are either **unaware** of the regulations, or don't have **time** or **bandwidth** to comply. Market actors need **support** to understand their role, obligations, and **help** getting there.



Roles for Utilities and Others to Support: Standards Attribution

Did
you
know?

“The [California Codes and Standards] program serves as a link from research and emerging technology programs, to incentive and information programs, to code readiness, and to adoption of specific requirements into codes and standards.”

“The codes and standard program likely represents the largest source of energy savings for the IOUs.”

[-CPUC Codes and Standards Evaluation Methodology Report 2019](#)



Savings Estimates

How will you produce a reliable estimate of the savings from the regulation?

Analysis of savings from an energy efficiency or Codes and Standards advocacy program.



Attribution Percentage

How will you assign a portion of that savings to the advocate?

Determination of the amount of the energy savings that should be credited to Program Administrator efforts in the code development, adoption, and compliance processes.

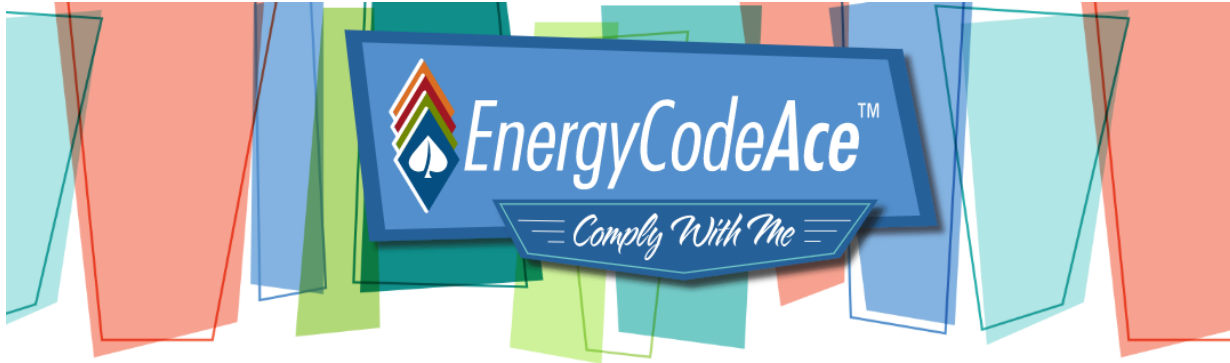
There are a Wide Array of Standards Activities That can be Supported



Writing	Supporting/ Advocacy	Outreach	Education	Database	Monitoring
<ul style="list-style-type: none">› Suggest and advocate for changes to standards bill language	<ul style="list-style-type: none">› Provide support for standards bills as they work their way through state legislatures› Provide comments on draft regulations	<ul style="list-style-type: none">› Promote awareness and perform direct engagement with supply chain and industry associations; additional focus on reaching small business owners and sellers in ESJ communities› Regularly update a compliance program website with new information and collateral	<ul style="list-style-type: none">› Provide resources to summarize/centralize critical information that market actors need to understand compliance requirements (e.g., fact sheets, guides, etc.)› Provide or support on-demand or live training to help them understand concepts and processes related to compliance	<ul style="list-style-type: none">› Fund or support a product database (such as SASD)	<ul style="list-style-type: none">› Manual data collection› In-store audits› Webscraping› Assess compliance and inform priorities of a compliance program

Compliance Support

Examples From the Real World



Your one-stop shop for no-cost tools, training and resources to help you comply with California's [Title 24, Part 6 building energy code](#) and [Title 20 appliance standards](#). We're powered by the California Statewide Codes & Standards Program and vetted by the California Energy Commission.



<https://energycodeace.com/>

New York State Appliance and Equipment Efficiency Standards

Compliance Requirements – Foodservice Equipment



New York State has adopted appliance and equipment efficiency regulations that will impact what products can be legally sold, rented, leased, and installed in New York as a result of the [Advanced Building Codes, Appliance and Equipment Efficiency Standards Act of 2022](#)¹. New York established standards for the following consumer products and appliances manufactured on or after **June 26, 2023**:

- Commercial dishwashers
- Commercial fryers
- Commercial hot food holding cabinets
- Commercial ovens
- Commercial steam cookers

The New York State Energy Research and Development Authority (NYSERDA) is available to help you comply with these appliance and equipment standards.

Roles and Responsibilities

The entire supply chain has responsibilities within the compliance process, including manufacturers, distributors, dealers, retailers, installers, contractors, and leasing companies.

Manufacturers

Before selling any of the five foodservice products listed above into New York, manufacturers must:

- Ensure their products meet the efficiency requirements.
- Test the products in accordance with the required test procedure.
- Certify the products to the [State Appliance Standards Database \(SASD\)](#)².

SASD Certification Instructions

- Create an account on the SASD using [these instructions](#)³.

Risks of Noncompliance

Any manufacturer, distributor, dealer, retailer, installer, contractor, or leasing company who sells, leases, rents, or installs products in New York that do not comply with these standards may be subject to financial penalties, including fines of up to five-hundred dollars for each violation and one-hundred dollars for each day in violation.

<https://www.nyserdera.ny.gov/appliance-standards>

Unlocking Compliance: State

SASD State Appliance
Standards Database

Home Resources Login

Product Search

Welcome to the State Appliance Standards Database (SASD), a resource developed by the Northeast Energy Efficiency Partnerships to facilitate compliance with state appliance standards.

To access the SASD as a verified manufacturer or an administrator, navigate to the Login button in the top right corner. If you would like to request an account, click Login and select Request an account.

Product upload instructions and additional information can be found under Resources.

To search for compliant products on the SASD, enter the model number, manufacturer name, or brand and click search. The filters can be used to sort the list by product(s) and state(s). Please note: To export product data to Excel, select one product type. The export function will not work if multiple products are in the search.

Search Products

Product(s) State(s)

DC MA MD NJ NY RI

Search Reset

84,969

Certified
Products



Northeast Energy Efficiency Partnerships

Products Currently Listed on the SASD

Air purifiers	Computer monitors
Commercial dishwashers	Computer Monitors
Commercial fryers	Portable Electric Spa
Commercial hot food holding cabinets	Residential ventilating fans
Commercial ovens	Spray Sprinkler Bodies
Commercial steam cookers	Federally-exempt linear fluorescent lamps
Electric vehicle supply equipment	Showerheads
Faucets	Urinals
Gas fireplaces	Toilets
Water coolers	

www.appliancestandards.org

Other states have included reference to SASD in their state standards regulations (NV) and laws (CO)

Federal





Thank you

Claire Miziolek

cmiziolek@energy-solution.com

510.482.4420 x336

