New York Appliance Standards

This effort updates energy and water efficiency standards for common household and commercial appliances. Efficiency standards ensure that the products we purchase use less energy and water while preserving quality and affordability.

Energy savings | **Water Savings** | **Utility Bill Savings** | **Emissions Reductions**

The basics of appliance efficiency standards

- Set a minimum level of energy and water efficiency for household and commercial appliances
- Provide savings for consumers and businesses
- Encourage innovative water- and energy-savings technologies

Residents, businesses, and government save money.

If New York adopted a package of 18 new standards, residents, businesses, and local and state governments would save more than **$400 million** per year. These **savings grow to $900 million annually by 2035.**

Standards bring huge benefits to New York

- **Affordability:** Consumers and businesses save money on utility bills with reduced consumption
- **Cleaner Energy:** Public health and air quality improve when carbon emissions and pollutants are cut
- **Water Savings**: Reduced strain on water infrastructure lessens need for expensive water
- **Climate Goals**: Helps state meet greenhouse gas reduction goals and maintain a high rating for Energy Efficiency
- **Energy Conservation**: After fuel economy standards, appliance standards rank as the biggest energy saver!

Short paybacks and long-term benefits:

Half of the products have no incremental cost so the savings would start accruing right away. Of the remaining standards, the payback period ranges from 1.4 to 4.8 years, with the median payback for all products about 1 year.

Our neighbors are acting

Vermont adopted new standards in 2018; **Massachusetts, Maine, DC, Connecticut & Rhode Island** filed bills in 2019.

From New Efficiency: New York:

> "As the federal government scales back its role in setting and enforcement of appliance efficiency standards, advancement of standards at the state level is needed. New York's leadership on this front, together with California and other states, especially in the Northeast, would go far in setting de facto national standards given the size of the consumer market of the states advancing new standards."

ENERGY AND WATER SAVINGS*

	Potential annual savings in 2025						Potential annual savings in 2035					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (thous. MT)
Air compressors	3.8	–	–	0.6	0.3	1.3	11.0	–	–	1.8	0.9	3.6
Air purifiers	92.0	–	–	14.0	8.1	31.5	184.1	–	–	30.6	14.6	59.9
Commercial dishwashers	10.0	238	332	12.4	0.9	16.2	29.5	701	977	36.9	2.3	46.9
Commercial fryers	1.6	899	–	41.2	0.1	48.3	4.4	2,396	–	109.9	0.3	128.7
Commercial hot-food holding cabinets	10.6	–	–	1.6	0.9	3.7	28.1	–	–	4.7	2.2	9.2
Commercial steam cookers	17.7	94	301	7.0	1.6	11.2	47.2	251	801	19.3	3.7	28.7
Computers and computer monitors	508.2	–	–	77.2	45.0	177.0	638.6	–	–	106.1	50.7	207.8
Faucets	69.2	1,760	4,979	90.7	6.1	117.2	153.8	3,871	10,970	201.9	12.2	255.7
High CRI fluorescent lamps	215.6	–	–	32.8	19.1	75.7	60.2	–	–	10.0	4.8	19.6
Portable air conditioners	101.9	–	–	15.5	9.0	34.9	305.8	–	–	50.8	24.3	99.5
Portable electric spas	10.1	–	–	1.5	0.9	3.5	22.5	–	–	3.7	1.8	7.3
Residential ventilating fans	11.3	–	–	1.7	1.0	3.9	25.1	–	–	4.2	2.0	8.2
Showerheads	48.9	1,221	2,370	63.0	4.3	81.6	108.7	2,713	5,266	141.6	8.6	179.5
Spray sprinkler bodies	–	–	3,667	–	–	–	–	–	7,335	–	–	–
Toilets (water closets)	–	–	1,328	–	–	–	–	–	4,153	–	–	–
Uninterruptible power supplies	109.3	–	–	16.6	9.7	38.3	148.0	–	–	24.6	11.8	48.2
Urinals	–	–	177	–	–	–	–	–	473	–	–	–
Water coolers	19.1	–	–	2.9	1.7	6.7	42.5	–	–	7.1	3.4	13.8
Total	**1,229**	**4,212**	**13,154**	**379**	**109**	**651**	**1,810**	**9,933**	**29,974**	**753**	**144**	**1,116**

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.

UTILITY BILL SAVINGS AND PAYBACK PERIODS*

	Potential annual utility bill savings (million 2017$)		Net present value savings (million 2017$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Air compressors	0.2	0.6	3.5	6.1	1.6
Air purifiers	7.6	16.4	95.7	4.7	1.8
Commercial dishwashers	3.0	9.5	59.4	11.5	0.9
Commercial fryers	4.0	10.8	47.9	2.9	3.1
Commercial hot-food holding cabinets	0.7	1.9	10.9	5.9	1.6
Commercial steam cookers	2.7	7.9	51.2	13.8	0.7
Computers and computer monitors	31.1	41.3	248.4	4.0	1.3
Faucets	35.2	86.0	620.8	no cost	0.0
High CRI fluorescent lamps	12.2	4.1	68.5	5.4	1.4
Portable air conditioners	8.8	28.6	155.9	5.8	1.6
Portable electric spas	0.6	1.4	10.1	no cost	0.0
Residential ventilating fans	0.9	2.2	16.3	no cost	0.0
Showerheads	20.2	49.4	357.4	no cost	0.0
Spray sprinkler bodies	5.0	11.6	73.8	8.2	1.0
Toilets (water closets)	5.2	18.9	168.5	no cost	0.0
Uninterruptible power supplies	5.7	8.0	50.5	4.6	1.2
Urinals	0.7	2.2	15.0	no cost	0.0
Water coolers	1.2	2.8	20.6	no cost	0.0
Total	145	304	2,074	10.5	–

Assuming a compliance date of 2021 for almost all the recommended standards. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2021 and 2035. Totals may not sum due to rounding. The total benefit-cost ratio is calculated as the present value of the total utility bill savings from products sold through 2035 for the package of recommended standards divided by the present value of the total additional costs.

Why state standards?

States have historically led the nation in the development of new appliance standards. Over time, multi-state efficiency standards develop into national standards. New York has been a leader in the past in setting state standards. Now is a good time to update standards to keep pace with changes in the marketplace.

Do I have to buy expensive new products?

No. Consumers can already readily purchase all products that meet the updated standards. Appliances that have already been purchased would not need to be replaced.

APPLIANCE STANDARDS THE BEST ENERGY AND CLIMATE POLICY YOU'VE NEVER HEARD OF.

*Data from a joint report from the Appliance Standards Awareness Project and American Council for an Energy-Efficient Economy. For more information on state appliance standards, visit appliance-standards.org or email mdimascio@standardsasap.org