

States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards (Full report at <https://appliance-standards.org/document/states-go-first>)

Savings estimates for: New York

	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)
Faucets	105.5	2,714	7,663	146.2	17.1	174.3	191.8	4,868	13,775	256.3	21.3	314.0
Showerheads	75.3	1,878	3,645	101.6	12.2	121.2	136.8	3,414	6,628	180.2	15.2	220.9
Lawn spray sprinklers	--	--	4,453	--	--	--	--	--	7,286	--	--	--
Toilets	--	--	1,881	--	--	--	--	--	5,104	--	--	--
Computers and monitors	622.0	--	--	133.1	101.0	175.3	696.6	--	--	125.6	77.4	198.2
High CRI fluorescent lamps	870.4	--	--	186.3	141.3	243.5	282.3	--	--	50.9	31.4	79.9
Air purifiers	133.8	--	--	28.6	21.7	38.2	218.9	--	--	39.5	24.3	63.3
Pool pump replacement motors	229.3	--	--	49.1	37.2	65.5	0.0	--	--	0.0	0.0	0.0
Commercial fryers	2.8	1,269	--	58.4	0.5	68.2	6.1	2,769	--	127.2	0.7	148.8
Commercial dishwashers	11.7	278	388	15.2	1.9	18.1	28.2	670	933	35.6	3.1	43.6
Commercial steam cookers	21.3	113	362	9.7	3.5	12.0	46.5	247	790	19.6	5.2	26.2
Portable air conditioners	157.0	--	--	33.6	25.5	44.9	299.8	--	--	54.1	33.3	86.6
Urinals	--	--	589	--	--	--	--	--	1,286	--	--	--
Audio/video equipment	78.6	--	--	16.8	12.8	22.5	78.6	--	--	14.2	8.7	22.7
Uninterruptible power supplies	128.1	--	--	27.4	20.8	35.9	142.0	--	--	25.6	15.8	40.1
Telephones	44.9	--	--	9.6	7.3	12.6	44.9	--	--	8.1	5.0	12.7
Water coolers	27.7	--	--	5.9	4.5	7.7	50.3	--	--	9.1	5.6	14.2
Ventilation fans	19.8	--	--	4.2	3.2	5.7	43.5	--	--	7.8	4.8	12.6
Portable electric spas	12.2	--	--	2.6	2.0	3.5	22.2	--	--	4.0	2.5	6.4
Hot food holding cabinets	14.2	--	--	3.0	2.3	4.0	30.9	--	--	5.6	3.4	8.7
Compressors	4.6	--	--	1.0	0.7	1.3	10.9	--	--	2.0	1.2	3.1
Total	2,559	6,253	18,981	832	415	1,054	2,330	11,968	35,803	965	259	1,302

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding. Potential savings for pool pump replacement motors are zero in 2035 because we assume that the recommended standard would affect just seven years of product sales beginning in 2021.

	Potential annual utility bill savings (million 2016\$)		Net present value savings (million 2016\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Faucets	151.1	304.7	2,270.2	no cost	0.0
Showerheads	86.6	174.9	1,304.3	no cost	0.0
Lawn spray sprinklers	50.6	95.5	628.5	8.2	1.0
Toilets	21.4	66.9	586.4	no cost	0.0
Computers and monitors	136.3	162.8	1,011.3	4.3	1.3
High CRI fluorescent lamps	157.0	59.0	735.8	3.0	1.7
Air purifiers	39.6	67.4	434.8	5.8	1.4
Pool pump replacement motors	67.8	0.0	399.1	17.2	0.4
Commercial fryers	10.9	25.6	97.9	2.1	4.7
Commercial dishwashers	8.8	23.6	149.2	10.3	1.1
Commercial steam cookers	8.8	21.5	142.2	13.1	0.8
Portable air conditioners	46.4	92.3	600.7	7.2	1.3
Urinals	6.7	16.8	120.2	no cost	0.0
Audio/video equipment	23.2	24.2	203.1	no cost	0.0
Uninterruptible power supplies	23.8	28.6	182.5	4.7	1.3
Telephones	9.5	10.2	84.5	no cost	0.0
Water coolers	4.9	9.7	72.4	no cost	0.0
Ventilation fans	5.9	13.4	97.8	no cost	0.0
Portable electric spas	3.6	6.8	52.1	no cost	0.0
Hot food holding cabinets	2.5	5.9	35.6	5.9	1.8
Compressors	0.6	1.4	8.2	5.4	2.0
Total	866	1,211	9,217	9.1	-

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2020 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 21 recommended standards divided by the present value of the total additional costs.

Cumulative savings estimates for: **New York**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	2,110	53.8	152.2	2,863.3	286.8	3,466.0
Showerheads	1,505	37.6	72.9	2,003.8	204.6	2,427.3
Lawn spray sprinklers	--	--	83.8	--	--	--
Toilets	--	--	43.3	--	--	--
Computers and monitors	9,011	--	--	1,781.4	1,248.6	2,595.8
High CRI fluorescent lamps	9,023	--	--	1,857.2	1,311.5	2,618.0
Air purifiers	2,518	--	--	492.6	343.9	723.7
Pool pump replacement motors	2,318	--	--	473.8	340.5	669.4
Commercial fryers	61	27.7	--	1,272.8	8.3	1,488.4
Commercial dishwashers	265	6.3	8.8	337.6	35.5	410.5
Commercial steam cookers	465	2.5	7.9	202.8	62.7	265.6
Portable air conditioners	3,226	--	--	628.3	437.6	926.9
Urinals	--	--	12.9	--	--	--
Audio/video equipment	1,046	--	--	207.4	145.5	300.5
Uninterruptible power supplies	1,839	--	--	363.5	254.9	530.3
Telephones	600	--	--	118.9	83.4	172.8
Water coolers	554	--	--	108.0	75.3	159.9
Ventilation fans	433	--	--	84.0	58.3	124.3
Portable electric spas	244	--	--	47.5	33.1	70.0
Hot food holding cabinets	309	--	--	60.0	41.7	89.3
Compressors	104	--	--	20.1	13.9	29.9
Total	35,630	128	382	12,923	4,986	17,069

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding.