

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 Jersey

	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	35.1	1,298	3,479	65.4	12.5	82.6	63.7	2,330	6,254	115.3	15.6	146.3
Showerheads	25.0	900	1,655	45.5	8.9	57.5	45.5	1,636	3,009	81.1	11.2	102.9
Lawn spray sprinklers	--	--	2,127	--	--	--	--	--	3,480	--	--	--
Toilets	--	--	854	--	--	--	--	--	2,317	--	--	--
Computers and monitors	298.6	--	--	53.6	106.2	119.5	334.4	--	--	48.4	82.0	119.8
High CRI fluorescent lamps	435.8	--	--	78.3	155.0	176.9	139.3	--	--	20.2	34.2	50.1
Air purifiers	58.8	--	--	10.6	20.9	22.8	96.1	--	--	13.9	23.6	34.0
Pool pump replacement motors	154.2	--	--	27.7	54.9	59.8	0.0	--	--	0.0	0.0	0.0
Commercial fryers	1.3	575	--	26.4	0.5	31.1	2.8	1,254	--	57.5	0.7	67.6
Commercial dishwashers	5.3	126	176	6.7	1.9	8.9	12.8	304	423	15.7	3.1	20.7
Commercial steam cookers	9.7	51	164	4.1	3.4	6.7	21.1	112	358	8.1	5.2	13.5
Portable air conditioners	42.0	--	--	7.5	14.9	16.3	80.1	--	--	11.6	19.7	28.3
Urinals	--	--	267	--	--	--	--	--	582	--	--	--
Audio/video equipment	34.5	--	--	6.2	12.3	13.4	34.5	--	--	5.0	8.5	12.2
Uninterruptible power supplies	63.7	--	--	11.4	22.7	25.8	70.6	--	--	10.2	17.3	25.4
Telephones	21.7	--	--	3.9	7.7	8.7	21.7	--	--	3.1	5.3	7.8
Water coolers	13.9	--	--	2.5	5.0	5.7	25.3	--	--	3.7	6.2	9.1
Ventilation fans	8.7	--	--	1.6	3.1	3.4	19.1	--	--	2.8	4.7	6.7
Portable electric spas	10.4	--	--	1.9	3.7	4.0	18.9	--	--	2.7	4.6	6.7
Hot food holding cabinets	6.4	--	--	1.2	2.3	2.6	14.0	--	--	2.0	3.4	5.1
Compressors	1.9	--	--	0.3	0.7	0.8	4.5	--	--	0.7	1.1	1.6
Total	1,227	2,950	8,721	355	436	646	1,005	5,635	16,424	402	246	658

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	57.6	117.4	871.9	no cost	0.0
Showerheads	31.4	64.4	478.4	no cost	0.0
Lawn spray sprinklers	24.2	45.6	300.1	8.2	1.0
Toilets	9.7	30.4	266.2	no cost	0.0
Computers and monitors	45.5	54.6	298.7	3.0	1.9
High CRI fluorescent lamps	61.5	21.6	248.5	2.4	2.2
Air purifiers	10.5	18.3	102.1	3.6	2.4
Pool pump replacement motors	27.5	0.0	158.1	10.5	0.7
Commercial fryers	6.0	14.1	62.8	2.6	3.9
Commercial dishwashers	4.0	10.8	68.6	10.5	1.1
Commercial steam cookers	3.7	9.1	60.1	12.3	0.9
Portable air conditioners	7.5	15.2	88.9	4.4	2.2
Urinals	3.0	7.6	54.5	no cost	0.0
Audio/video equipment	6.2	6.6	54.8	no cost	0.0
Uninterruptible power supplies	9.1	10.8	64.6	3.6	1.7
Telephones	3.3	3.5	29.3	no cost	0.0
Water coolers	1.9	3.8	28.9	no cost	0.0
Ventilation fans	1.5	3.6	26.4	no cost	0.0
Portable electric spas	1.8	3.6	27.2	no cost	0.0
Hot food holding cabinets	0.9	2.1	12.1	4.7	2.3
Compressors	0.2	0.6	3.6	5.7	1.9
Total	317	444	3,306	7.2	-

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 Jersey**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	701	25.8	69.1	1,286.1	216.1	1,626.1
Showerheads	500	18.0	33.1	899.9	154.2	1,139.5
Lawn spray sprinklers	--	--	40.0	--	--	--
Toilets	--	--	19.7	--	--	--
Computers and monitors	4,325	--	--	709.7	1,360.0	1,627.7
High CRI fluorescent lamps	4,503	--	--	788.4	1,500.3	1,728.0
Air purifiers	1,106	--	--	178.6	342.5	406.9
Pool pump replacement motors	1,560	--	--	263.5	521.2	585.9
Commercial fryers	28	12.5	--	575.6	8.5	676.6
Commercial dishwashers	120	2.8	4.0	148.9	36.4	196.3
Commercial steam cookers	211	1.1	3.6	84.7	64.3	138.5
Portable air conditioners	863	--	--	138.6	265.2	316.7
Urinals	--	--	5.8	--	--	--
Audio/video equipment	460	--	--	75.8	145.1	170.6
Uninterruptible power supplies	915	--	--	150.1	287.7	346.3
Telephones	290	--	--	47.8	91.6	109.4
Water coolers	278	--	--	44.8	85.8	104.8
Ventilation fans	190	--	--	30.4	58.0	69.7
Portable electric spas	207	--	--	33.4	63.9	76.2
Hot food holding cabinets	140	--	--	22.4	42.8	52.6
Compressors	43	--	--	6.9	13.1	16.1
Total	16,440	60	175	5,486	5,257	9,388

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.