

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: Illinois

	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	56.8	1,822	4,974	96.7	51.9	132.9	103.2	3,269	8,942	169.6	72.3	229.7
Showerheads	40.5	1,262	2,366	67.2	37.0	92.8	73.6	2,294	4,302	119.3	51.6	161.9
Lawn spray sprinklers	--	--	3,046	--	--	--	--	--	4,984	--	--	--
Toilets	--	--	1,221	--	--	--	--	--	3,313	--	--	--
Computers and monitors	337.9	--	--	81.6	309.1	221.3	378.5	--	--	76.0	265.1	208.6
High CRI fluorescent lamps	512.7	--	--	123.8	468.9	342.6	168.5	--	--	33.8	118.0	93.5
Air purifiers	88.2	--	--	21.3	80.6	56.0	144.3	--	--	29.0	101.1	78.4
Pool pump replacement motors	157.3	--	--	38.0	143.9	100.0	0.0	--	--	0.0	0.0	0.0
Commercial fryers	1.8	823	--	37.9	1.7	44.9	4.0	1,795	--	82.5	2.8	97.6
Commercial dishwashers	7.6	180	251	10.1	7.0	14.7	18.3	435	605	23.5	12.8	33.3
Commercial steam cookers	13.8	73	235	6.7	12.6	13.2	30.2	160	512	13.4	21.1	25.3
Portable air conditioners	49.9	--	--	12.1	45.7	31.7	95.3	--	--	19.1	66.8	51.8
Urinals	--	--	382	--	--	--	--	--	834	--	--	--
Audio/video equipment	51.8	--	--	12.5	47.4	32.9	51.8	--	--	10.4	36.3	28.2
Uninterruptible power supplies	63.2	--	--	15.3	57.8	42.1	70.0	--	--	14.1	49.1	38.9
Telephones	29.4	--	--	7.1	26.9	19.4	29.4	--	--	5.9	20.6	16.3
Water coolers	18.1	--	--	4.4	16.5	12.1	32.9	--	--	6.6	23.0	18.3
Ventilation fans	13.0	--	--	3.1	11.9	8.3	28.6	--	--	5.8	20.1	15.6
Portable electric spas	11.7	--	--	2.8	10.7	7.4	21.2	--	--	4.3	14.8	11.5
Hot food holding cabinets	9.2	--	--	2.2	8.4	6.2	20.1	--	--	4.0	14.1	11.2
Compressors	10.2	--	--	2.5	9.3	6.8	24.2	--	--	4.9	16.9	13.5
Total	1,473	4,161	12,476	545	1,347	1,185	1,294	7,954	23,493	622	906	1,133

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	78.0	158.4	1,178.9	no cost	0.0
Showerheads	42.6	86.8	646.6	no cost	0.0
Lawn spray sprinklers	32.8	61.9	404.3	7.8	1.1
Toilets	13.2	41.1	360.7	no cost	0.0
Computers and monitors	40.2	45.5	216.2	2.3	2.3
High CRI fluorescent lamps	52.5	18.2	149.8	1.7	2.9
Air purifiers	12.6	21.0	106.4	2.8	2.8
Pool pump replacement motors	22.4	0.0	124.2	8.3	0.8
Commercial fryers	7.6	18.2	74.7	2.3	4.4
Commercial dishwashers	5.1	13.7	85.8	9.3	1.2
Commercial steam cookers	4.6	11.0	72.0	10.5	1.0
Portable air conditioners	7.1	13.8	75.4	3.5	2.6
Urinals	4.1	10.4	73.9	no cost	0.0
Audio/video equipment	7.4	7.5	64.5	no cost	0.0
Uninterruptible power supplies	6.7	7.4	38.7	2.6	2.2
Telephones	3.3	3.4	29.1	no cost	0.0
Water coolers	1.8	3.3	25.9	no cost	0.0
Ventilation fans	1.9	4.2	30.8	no cost	0.0
Portable electric spas	1.7	3.1	23.8	no cost	0.0
Hot food holding cabinets	0.9	2.0	10.5	3.2	3.0
Compressors	0.8	1.8	9.0	3.2	3.2
Total	347	533	3,801	6.8	-

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: **Illinois**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	1,135	36.2	98.8	1,898.8	865.9	2,583.1
Showerheads	810	25.2	47.3	1,329.5	617.8	1,813.5
Lawn spray sprinklers	--	--	57.3	--	--	--
Toilets	--	--	28.1	--	--	--
Computers and monitors	4,895	--	--	1,105.6	3,807.3	2,977.2
High CRI fluorescent lamps	5,330	--	--	1,267.9	4,347.7	3,426.1
Air purifiers	1,659	--	--	370.2	1,270.6	971.7
Pool pump replacement motors	1,591	--	--	370.8	1,282.9	966.9
Commercial fryers	40	17.9	--	826.3	30.1	977.7
Commercial dishwashers	172	4.1	5.7	223.5	129.9	320.9
Commercial steam cookers	302	1.6	5.1	139.7	228.9	268.9
Portable air conditioners	1,026	--	--	227.8	781.6	598.3
Urinals	--	--	8.3	--	--	--
Audio/video equipment	690	--	--	156.3	538.4	409.2
Uninterruptible power supplies	907	--	--	204.9	705.5	560.3
Telephones	393	--	--	89.1	306.8	241.1
Water coolers	362	--	--	80.5	276.0	221.7
Ventilation fans	285	--	--	63.1	216.5	165.8
Portable electric spas	233	--	--	51.8	177.8	136.1
Hot food holding cabinets	201	--	--	44.4	152.2	122.2
Compressors	230	--	--	50.7	173.8	139.6
Total	20,259	85	251	8,501	15,910	16,900

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.