

Appliance Standards Awareness Project

2023 State Appliance Standards Recommendations

Savings estimates for: Illinois

	Potential annual savings in 2030						Potential annual savings in 2040					
	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 purifiers	166.5	--	--	16.5	32.5	43.8	272.4	--	--	27.4	52.7	77.8
Commercial dishwashers	8.0	196	273	9.7	1.6	12.7	19.1	470	654	23.2	3.7	30.6
Commercial fryers	3.0	1,011	--	46.1	0.6	54.6	6.6	2,207	--	100.7	1.3	119.2
Commercial ovens	8.1	131	--	6.7	1.6	9.3	17.8	285	--	14.7	3.4	20.4
Commercial steam cookers	5.2	41	115	2.4	1.0	3.7	11.2	90	251	5.2	2.2	8.1
Electric vehicle supply equipment	15.8	--	--	1.6	3.1	4.2	104.9	--	--	10.6	20.3	30.0
Faucets	74.1	993	3,353	52.4	14.4	72.3	134.7	1,802	6,088	95.2	26.0	134.2
Gas fireplaces	--	153	--	6.9	--	8.1	--	417	--	18.9	--	22.1
High CRI fluorescent lamps	78.9	--	--	7.8	15.4	22.7	19.2	--	--	1.9	3.7	5.6
Portable electric spas	60.5	--	--	6.0	11.8	15.9	101.6	--	--	10.2	19.6	29.0
Residential ventilating fans	13.7	--	--	1.4	2.7	3.6	37.3	--	--	3.8	7.2	10.7
Showerheads	64.0	855	1,976	45.1	12.5	62.3	116.4	1,554	3,593	82.1	22.5	115.8
Spray sprinkler bodies	--	--	6,448	--	--	--	--	--	11,723	--	--	--
Toilets (water closets)	--	--	740	--	--	--	--	--	1,968	--	--	--
Urinals	--	--	139	--	--	--	--	--	304	--	--	--
Water coolers	26.9	--	--	2.7	5.2	7.8	48.9	--	--	4.9	9.4	14.5
Total	525	3,380	13,044	205	102	321	890	6,824	24,580	399	172	618

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market.

Savings estimates for: Illinois

	Potential annual utility bill savings (million 2021\$)		Net present value savings (million 2021\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	20.7	35.2	233.1	6.1	1.2
Commercial dishwashers	6.5	17.3	109.8	10.0	1.1
Commercial fryers	8.1	18.4	88.0	2.9	3.3
Commercial ovens	1.7	3.9	5.4	1.2	7.5
Commercial steam cookers	2.6	6.2	41.0	11.2	0.9
Electric vehicle supply equipment	2.0	13.5	83.6	no cost	0.0
Faucets	70.2	143.4	1069.1	no cost	0.0
Gas fireplaces	1.4	3.8	23.5	8.8	1.3
High CRI fluorescent lamps	7.1	2.0	30.6	2.8	2.1
Portable electric spas	7.5	13.1	89.3	7.2	0.9
Residential ventilating fans	1.7	4.8	33.5	no cost	0.0
Showerheads	46.3	93.9	702.5	no cost	0.0
Spray sprinkler bodies	100.4	210.7	1437.0	13.4	0.7
Toilets (water closets)	11.5	35.4	303.2	no cost	0.0
Urinals	2.2	5.5	39.0	no cost	0.0
Water coolers	2.4	4.4	34.6	no cost	0.0
Total	292	612	4,323	16.2	–

Assuming a compliance date of 2025 for 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 2025 and 2040. 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 2040 for the package of recommended standards divided by the present value of the total additional costs. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market.

Cumulative savings estimates for: Illinois

	Potential cumulative savings through 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air purifiers	3,133	--	--	314.8	612.3	881.3
Commercial dishwashers	180	4.4	6.2	218.5	35.2	285.9
Commercial fryers	66	22.1	--	1,006.8	12.9	1,191.0
Commercial ovens	178	2.8	--	147.0	34.7	201.7
Commercial steam cookers	112	0.9	2.5	52.0	22.0	79.6
Electric vehicle supply equipment	595	--	--	60.3	116.0	169.4
Faucets	1,481	19.8	67.0	1,048.3	289.4	1,471.3
Gas fireplaces	--	3.5	--	160.5	--	188.1
High CRI fluorescent lamps	779	--	--	77.8	154.6	226.8
Portable electric spas	1,153	--	--	116.0	225.8	324.8
Residential ventilating fans	317	--	--	32.0	62.0	89.7
Showerheads	1,280	17.1	39.5	903.6	250.2	1,268.8
Spray sprinkler bodies	--	--	129.0	--	--	--
Toilets (water closets)	--	--	17.0	--	--	--
Urinals	--	--	3.0	--	--	--
Water coolers	538	--	--	54.1	105.1	152.7
Total	9,813	71	264	4,192	1,920	6,531

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market.