

Appliance Standards Awareness Project

2024 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)
Commercial battery chargers	6.0	--	--	0.3	0.4	0.8	17.6	--	--	0.6	0.8	1.9
Commercial dishwashers	10.7	263	366	12.4	0.7	15.3	31.3	770	1,072	36.0	1.4	44.2
Commercial fryers	3.0	986	--	44.8	0.2	52.7	7.9	2,628	--	119.4	0.4	140.4
Commercial ovens	7.8	125	--	6.0	0.5	7.6	20.7	333	--	15.8	1.0	19.9
Commercial steam cookers	4.9	39	110	2.0	0.3	2.7	13.1	105	292	5.2	0.6	6.9
Faucets	30.0	405	1,365	19.6	2.0	25.3	66.8	894	3,020	42.9	3.1	54.5
Gas fireplaces	--	165	--	7.5	--	8.8	--	532	--	24.1	--	28.3
High CRI fluorescent lamps	66.2	--	--	2.8	4.3	8.5	23.7	--	--	0.9	1.1	2.5
Irrigation controllers	--	--	2,859	--	--	--	--	--	9,214	--	--	--
Portable electric spas	34.9	--	--	1.5	2.3	4.5	68.8	--	--	2.5	3.2	7.3
Residential ventilating fans	4.2	--	--	0.2	0.3	0.5	13.4	--	--	0.5	0.6	1.4
Showerheads	38.1	507	1,174	24.6	2.5	31.8	84.6	1,127	2,608	54.1	3.9	68.8
Spray sprinkler bodies	--	--	5,261	--	--	--	--	--	11,692	--	--	--
Toilets (water closets)	--	--	493	--	--	--	--	--	1,501	--	--	--
Urinals	--	--	109	--	--	--	--	--	290	--	--	--
Water coolers	33.2	--	--	1.4	2.2	4.2	73.8	--	--	2.7	3.4	7.8
Total	239	2,489	11,210	123	16	163	422	6,388	26,240	305	19	384

Assuming a compliance date of 2026 for all the recommended standards. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water savings. The total potential water savings are thus smaller than the sum of the individual products.

Savings estimates for: Illinois

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.4	1.2	8.5	2.4
Commercial dishwashers	8.4	27.8	236.1	1.2
Commercial fryers	8.4	24.7	154.9	3.2
Commercial ovens	1.7	4.9	7.9	7.6
Commercial steam cookers	2.3	7.0	61.7	1.0
Faucets	27.1	68.2	687.9	0.0
Gas fireplaces	1.5	5.4	43.7	1.3
High CRI fluorescent lamps	5.7	2.4	25.2	2.3
Irrigation controllers	41.7	155.0	1,410.6	0.8
Portable electric spas	4.1	8.7	74.7	1.0
Residential ventilating fans	0.5	1.7	15.8	0.0
Showerheads	26.2	65.9	663.0	0.0
Spray sprinkler bodies	76.6	196.7	1,821.0	0.8
Toilets (water closets)	7.2	25.2	315.1	0.0
Urinals	1.6	4.9	47.8	0.0
Water coolers	2.8	6.5	65.3	0.0
Total	208	548	5,443	-

Assuming a compliance date of 2026 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 2026 and 2050. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total savings. The totals are thus smaller than the sum of the individual products.

Cumulative savings estimates for: Illinois

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	Utility bill savings (million 2022\$)
Commercial battery chargers	326	--	--	11.9	16.2	35.2	22.5
Commercial dishwashers	576	14.2	19.7	663.3	28.7	814.9	513.8
Commercial fryers	150	49.9	--	2,268.7	7.5	2,668.7	460.6
Commercial ovens	394	6.3	--	300.9	19.8	378.3	91.3
Commercial steam cookers	249	2.0	5.5	99.2	12.5	132.6	133.9
Faucets	1,335	17.9	60.4	860.0	68.0	1,095.5	1,364.4
Gas fireplaces	--	9.6	--	436.5	--	511.6	95.4
High CRI fluorescent lamps	791	--	--	33.6	54.6	99.5	71.7
Irrigation controllers	--	--	166.8	--	--	--	2,850.9
Portable electric spas	1,401	--	--	51.9	72.6	153.6	175.7
Residential ventilating fans	243	--	--	8.8	11.9	26.1	30.6
Showerheads	1,692	22.5	52.2	1,083.7	86.1	1,381.1	1,315.4
Spray sprinkler bodies	--	--	233.8	--	--	--	3,948.2
Toilets (water closets)	--	--	31.3	--	--	--	538.8
Urinals	--	--	5.5	--	--	--	93.6
Water coolers	1,476	--	--	54.2	75.1	160.4	129.7
Total	8,634	122	517	5,873	453	7,458	10,831

Assuming a compliance date of 2026 for all the recommended standards. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water and utility bill savings. The total potential water and utility bill savings are thus smaller than the sum of the individual products.