

Appliance Standards Awareness Project

2025 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 (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)
Commercial battery chargers	3.3	--	--	0.1	0.2	0.4	12.1	--	--	0.5	0.6	1.3
Commercial dishwashers	11.7	150	209	7.3	0.8	9.5	33.5	429	597	20.7	1.6	26.4
Commercial fryers	0.7	484	--	22.0	0.05	25.7	2.4	1,660	--	75.3	0.1	88.1
Commercial ovens	6.9	50	--	2.6	0.5	3.6	23.6	171	--	8.6	1.1	11.7
Commercial steam cookers	2.2	21	54	1.1	0.2	1.4	7.6	72	186	3.6	0.4	4.7
Faucets	37.6	429	1,788	21.1	2.6	27.7	107.5	1,222	5,102	59.5	5.2	76.7
Gas fireplaces	--	122	--	5.5	--	6.5	--	472	--	21.4	--	25.0
High CRI fluorescent lamps	46.3	--	--	2.1	3.2	6.2	22.4	--	--	0.9	1.1	2.5
Portable electric spas	65.4	--	--	2.9	4.5	8.8	163.6	--	--	6.2	7.9	18.2
Residential ventilating fans	3.5	--	--	0.2	0.2	0.5	13.5	--	--	0.5	0.7	1.5
Server power supplies	75.7	--	--	3.4	5.2	10.2	108.1	--	--	4.1	5.2	12.0
Showerheads	28.1	319	911	15.7	1.9	20.7	80.3	912	2,603	44.4	3.9	57.2
Spray sprinkler bodies	--	--	4,083	--	--	--	--	--	11,666	--	--	--
Toilets (water closets)	--	--	442	--	--	--	--	--	1,652	--	--	--
Urinals	--	--	80	--	--	--	--	--	276	--	--	--
Water coolers	26.0	--	--	1.2	1.8	3.5	74.1	--	--	2.8	3.6	8.3
Total	307	1,575	7,568	85	21	125	649	4,938	22,082	249	31	334

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, 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 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.2	0.9	5.4	3.8
Commercial dishwashers	6.0	19.3	170.8	0.9
Commercial fryers	4.3	16.5	110.3	2.7
Commercial ovens	1.1	4.0	13.1	6.2
Commercial steam cookers	1.3	5.1	45.3	0.8
Faucets	40.0	129.9	1,284.2	0.0
Gas fireplaces	1.2	5.2	45.2	1.2
High CRI fluorescent lamps	4.5	2.5	27.5	1.9
Portable electric spas	9.0	24.3	222.4	0.6
Residential ventilating fans	0.5	2.0	19.7	0.0
Server power supplies	7.2	10.9	91.7	1.0
Showerheads	22.6	73.2	722.9	0.0
Spray sprinkler bodies	69.8	229.7	2,106.7	0.7
Toilets (water closets)	7.6	32.5	408.7	0.0
Urinals	1.4	5.4	51.9	0.0
Water coolers	2.5	7.5	72.9	0.0
Total	179	569	5,399	-

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, 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 2050						
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	222	--	--	8.4	11.2	24.8	16.5
Commercial dishwashers	637	8.2	11.3	393.6	32.8	502.9	367.7
Commercial fryers	43	29.9	--	1356.2	2.2	1586.1	292.2
Commercial ovens	425	3.1	--	155.3	21.6	210.1	72.1
Commercial steam cookers	136	1.3	3.3	64.0	6.9	83.9	93.1
Faucets	2,043	23.2	97.0	1130.5	105.2	1458.8	2482.5
Gas fireplaces	--	8.7	--	392.4	--	458.1	94.4
High CRI fluorescent lamps	652	--	--	27.2	41.7	80.2	67.6
Portable electric spas	3,208	--	--	122.3	166.5	361.5	472.7
Residential ventilating fans	248	--	--	9.4	12.4	27.7	36.8
Server power supplies	2,325	--	--	90.2	125.6	266.8	230.8
Showerheads	1,525	17.3	49.5	843.0	78.5	1087.8	1397.1
Spray sprinkler bodies	--	--	221.7	--	--	--	4409.8
Toilets (water closets)	--	--	33.8	--	--	--	684.4
Urinals	--	--	5.0	--	--	--	99.2
Water coolers	1,409	--	--	53.6	72.5	158.4	140.6
Total	12,874	92	421	4,646	677	6,307	10,957

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.