

Appliance Standards Awareness Project

2024 State Appliance Standards Recommendations

Savings estimates for: Ohio

	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	6.7	--	--	0.6	1.2	2.4	19.9	--	--	1.3	3.0	5.9
Commercial dishwashers	9.9	244	339	11.9	1.7	16.5	29.0	714	994	34.2	4.4	46.6
Commercial fryers	2.7	914	--	41.7	0.5	49.5	7.3	2,437	--	110.9	1.1	131.6
Commercial ovens	7.2	116	--	5.9	1.3	8.7	19.2	308	--	15.2	2.9	22.1
Commercial steam cookers	4.6	36	102	2.0	0.8	3.6	12.2	97	271	5.2	1.9	8.8
Faucets	36.3	321	1,249	17.7	6.4	30.0	80.7	708	2,764	37.4	12.3	61.8
Gas fireplaces	--	114	--	5.1	--	6.0	--	366	--	16.6	--	19.4
High CRI fluorescent lamps	63.5	--	--	5.5	11.1	22.6	22.8	--	--	1.5	3.5	6.8
Irrigation controllers	--	--	888	--	--	--	--	--	2,862	--	--	--
Portable electric spas	45.9	--	--	4.0	8.0	16.4	90.4	--	--	5.9	13.8	27.0
Residential ventilating fans	4.0	--	--	0.3	0.7	1.4	12.9	--	--	0.8	2.0	3.9
Showerheads	46.0	402	1,074	22.2	8.0	37.7	102.3	893	2,386	47.1	15.6	78.0
Spray sprinkler bodies	--	--	1,634	--	--	--	--	--	3,632	--	--	--
Toilets (water closets)	--	--	453	--	--	--	--	--	1,379	--	--	--
Urinals	--	--	101	--	--	--	--	--	269	--	--	--
Water coolers	31.8	--	--	2.8	5.6	11.3	70.7	--	--	4.6	10.8	21.1
Total	259	2,146	5,677	120	45	206	467	5,523	13,484	281	71	433

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: Ohio

	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	8.7	2.3
Commercial dishwashers	7.3	24.1	203.2	1.3
Commercial fryers	5.7	16.9	87.0	4.3
Commercial ovens	1.3	3.8	0.5	8.8
Commercial steam cookers	2.1	6.3	55.2	1.0
Faucets	25.7	64.2	647.8	0.0
Gas fireplaces	1.1	3.9	31.9	1.2
High CRI fluorescent lamps	5.8	2.3	26.1	2.2
Irrigation controllers	12.9	48.1	438.1	0.8
Portable electric spas	5.6	11.5	99.5	0.9
Residential ventilating fans	0.5	1.6	15.3	0.0
Showerheads	25.1	62.6	630.0	0.0
Spray sprinkler bodies	23.8	61.1	565.6	0.8
Toilets (water closets)	6.6	23.2	289.1	0.0
Urinals	1.5	4.5	44.3	0.0
Water coolers	2.8	6.4	64.0	0.0
Total	126	324	3,146	-

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: Ohio

	Potential cumulative savings through 2050						Utility bill savings (million 2022\$)
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	
Commercial battery chargers	367	--	--	24.5	55.6	110.7	23.1
Commercial dishwashers	535	13.1	18.3	631.3	81.0	859.4	445.4
Commercial fryers	139	46.3	--	2,107.9	21.0	2,501.6	315.2
Commercial ovens	365	5.9	--	290.0	55.4	421.6	71.1
Commercial steam cookers	231	1.8	5.1	99.0	35.0	167.7	120.1
Faucets	1,614	14.2	55.3	750.6	244.8	1,240.6	1,284.4
Gas fireplaces	--	6.6	--	300.2	--	351.9	69.2
High CRI fluorescent lamps	759	--	--	53.8	124.7	238.6	71.9
Irrigation controllers	--	--	51.8	--	--	--	885.5
Portable electric spas	1,841	--	--	123.4	280.8	557.1	232.1
Residential ventilating fans	234	--	--	15.6	35.5	70.7	29.6
Showerheads	2,045	17.9	47.7	945.6	310.2	1,565.4	1,249.4
Spray sprinkler bodies	--	--	72.6	--	--	--	1,226.4
Toilets (water closets)	--	--	28.7	--	--	--	494.6
Urinals	--	--	5.1	--	--	--	86.8
Water coolers	1,415	--	--	94.5	214.6	427.0	126.8
Total	9,545	106	267	5,436	1,459	8,512	6,419

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.