

Appliance Standards Awareness Project

2023 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)
Air purifiers	160.8	--	--	14.4	44.0	62.2	263.1	--	--	19.5	50.0	94.5
Commercial dishwashers	7.3	181	251	8.8	2.0	12.8	17.6	433	602	20.9	3.3	29.4
Commercial fryers	2.8	931	--	42.5	0.8	50.7	6.1	2,032	--	92.6	1.2	110.2
Commercial ovens	7.5	120	--	6.1	2.1	9.6	16.4	262	--	13.1	3.1	19.9
Commercial steam cookers	4.7	38	106	2.1	1.3	4.1	10.4	83	231	4.5	2.0	8.2
Electric vehicle supply equipment	15.3	--	--	1.4	4.2	5.9	101.4	--	--	7.5	19.3	36.4
Faucets	89.7	788	3,073	43.8	24.6	76.6	163.0	1,430	5,579	76.9	31.0	134.5
Gas fireplaces	--	140	--	6.4	--	7.4	--	382	--	17.3	--	20.3
High CRI fluorescent lamps	75.0	--	--	6.7	20.5	32.1	18.3	--	--	1.4	3.5	6.7
Portable electric spas	66.5	--	--	6.0	18.2	25.8	111.8	--	--	8.3	21.3	40.2
Residential ventilating fans	13.2	--	--	1.2	3.6	5.1	36.1	--	--	2.7	6.9	12.9
Showerheads	77.5	678	1,811	37.7	21.2	66.0	140.9	1,233	3,293	66.3	26.8	116.1
Spray sprinkler bodies	--	--	2,011	--	--	--	--	--	3,657	--	--	--
Toilets (water closets)	--	--	679	--	--	--	--	--	1,805	--	--	--
Urinals	--	--	128	--	--	--	--	--	280	--	--	--
Water coolers	25.5	--	--	2.3	7.0	11.0	46.4	--	--	3.5	8.8	17.1
Total	546	2,877	8,059	179	149	369	931	5,855	15,446	335	177	646

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: Ohio

	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	20.3	32.6	217.5	5.9	1.2
Commercial dishwashers	5.8	15.3	96.7	9.6	1.1
Commercial fryers	6.2	14.0	59.8	2.4	4.0
Commercial ovens	1.5	3.2	2.2	1.1	8.2
Commercial steam cookers	2.3	5.6	36.9	11.0	0.9
Electric vehicle supply equipment	1.9	12.5	77.6	no cost	0.0
Faucets	67.6	136.3	1019.1	no cost	0.0
Gas fireplaces	1.5	4.2	26.4	10.6	1.1
High CRI fluorescent lamps	7.2	1.9	29.9	2.8	2.1
Portable electric spas	8.4	13.8	95.3	7.2	0.9
Residential ventilating fans	1.7	4.5	31.3	no cost	0.0
Showerheads	45.2	90.3	677.9	no cost	0.0
Spray sprinkler bodies	31.3	65.7	448.2	13.4	0.7
Toilets (water closets)	10.6	32.4	278.1	no cost	0.0
Urinals	2.0	5.0	35.9	no cost	0.0
Water coolers	2.4	4.2	33.0	no cost	0.0
Total	216	442	3,166	17.2	-

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: Ohio

	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	3,026	--	--	244.5	679.1	1,114.6
Commercial dishwashers	166	4.1	5.7	197.7	36.4	280.1
Commercial fryers	61	20.3	--	926.0	13.4	1,103.1
Commercial ovens	164	2.6	--	131.9	36.1	202.5
Commercial steam cookers	104	0.8	2.3	45.8	22.9	83.9
Electric vehicle supply equipment	575	--	--	44.4	119.7	209.2
Faucets	1,793	15.7	61.4	858.0	399.8	1,496.5
Gas fireplaces	--	3.3	--	147.3	--	172.6
High CRI fluorescent lamps	741	--	--	64.1	186.7	311.2
Portable electric spas	1,269	--	--	102.9	286.1	468.8
Residential ventilating fans	306	--	--	24.4	67.1	112.6
Showerheads	1,550	13.6	36.2	739.4	345.6	1,290.8
Spray sprinkler bodies	--	--	40.2	--	--	--
Toilets (water closets)	--	--	15.6	--	--	--
Urinals	--	--	2.8	--	--	--
Water coolers	511	--	--	41.1	113.9	198.5
Total	10,266	60	164	3,567	2,307	7,044

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.