

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Ohio

	Potential annual savings in 2025						Potential annual savings in 2035					
	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 compressors	10.0	--	--	2.4	7.7	6.1	28.8	--	--	7.9	27.0	18.0
Air purifiers	58.3	--	--	13.8	44.8	35.9	116.6	--	--	32.2	109.5	72.8
Commercial dishwashers	5.9	140	195	7.8	4.5	11.0	17.3	412	574	23.6	16.3	32.7
Commercial fryers	1.0	528	--	24.3	0.7	28.6	2.6	1,408	--	64.8	2.4	76.4
Commercial hot-food holding cabinets	6.2	--	--	1.5	4.8	3.8	16.5	--	--	4.6	15.5	10.3
Commercial steam cookers	10.4	55	177	5.0	8.0	9.3	27.7	147	471	14.4	26.0	25.2
Computers and computer monitors	259.5	--	--	61.6	199.6	159.3	326.1	--	--	90.1	306.2	203.9
Faucets	92.1	775	2,937	57.2	70.8	97.8	204.6	1,698	6,471	133.9	192.1	218.0
High CRI fluorescent lamps	118.3	--	--	28.1	90.9	72.5	34.5	--	--	9.5	32.4	21.6
Portable air conditioners	27.6	--	--	6.6	21.2	17.0	82.8	--	--	22.9	77.7	51.7
Portable electric spas	10.7	--	--	2.5	8.2	6.6	23.8	--	--	6.6	22.3	14.9
Residential ventilating fans	7.2	--	--	1.7	5.5	4.4	15.9	--	--	4.4	14.9	9.9
Showerheads	65.1	534	1,398	39.8	50.0	68.4	144.6	1,187	3,107	94.0	135.8	153.4
Spray sprinkler bodies	--	--	794	--	--	--	--	--	1,588	--	--	--
Toilets (water closets)	--	--	783	--	--	--	--	--	2,449	--	--	--
Uninterruptible power supplies	50.1	--	--	11.9	38.5	30.7	67.8	--	--	18.7	63.7	42.4
Urinals	--	--	104	--	--	--	--	--	278	--	--	--
Water coolers	11.7	--	--	2.8	9.0	7.2	26.1	--	--	7.2	24.5	16.3
Total	734	2,032	6,387	267	564	559	1,136	4,852	14,936	535	1,066	968

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.

	Potential annual utility bill savings (million 2017\$)		Net present value savings (million 2017\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Air compressors	0.7	2.0	9.1	2.9	3.1
Air purifiers	8.6	17.1	83.8	2.8	2.7
Commercial dishwashers	3.9	12.3	74.6	8.8	1.3
Commercial fryers	4.2	11.4	34.1	1.8	5.3
Commercial hot-food holding cabinets	0.7	1.7	8.8	3.3	2.7
Commercial steam cookers	3.5	10.0	63.4	10.3	1.0
Computers and computer monitors	32.7	40.3	193.4	2.4	2.1
Faucets	54.2	131.1	950.1	no cost	0.0
High CRI fluorescent lamps	13.2	4.2	61.6	3.2	2.2
Portable air conditioners	4.1	12.1	57.9	3.4	2.4
Portable electric spas	1.6	3.5	26.1	no cost	0.0
Residential ventilating fans	1.1	2.3	17.4	no cost	0.0
Showerheads	30.8	74.0	538.3	no cost	0.0
Spray sprinkler bodies	8.7	20.0	126.6	7.8	1.1
Toilets (water closets)	8.6	30.9	276.3	no cost	0.0
Uninterruptible power supplies	5.7	7.4	38.6	2.7	2.0
Urinals	1.1	3.5	24.1	no cost	0.0
Water coolers	1.3	2.7	20.7	no cost	0.0
Total	184	387	2,605	8.5	-

Assuming a compliance date of 2021 for almost 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 2021 and 2035. 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 2035 for the package of recommended standards divided by the present value of the total additional costs.

Cumulative savings estimates for: Ohio

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air compressors	244	--	--	65.9	223.4	152.2
Air purifiers	1,224	--	--	328.3	1,113.3	763.3
Commercial dishwashers	145	3.5	4.8	196.4	132.9	273.9
Commercial fryers	23	12.7	--	583.1	21.0	687.3
Commercial hot-food holding cabinets	149	--	--	40.1	135.9	92.6
Commercial steam cookers	249	1.3	4.2	127.5	227.8	225.6
Computers and computer monitors	3,947	--	--	1,049.8	3,550.1	2,456.8
Faucets	2,046	17.1	64.9	1,326.2	1,864.5	2,181.9
High CRI fluorescent lamps	1,174	--	--	303.6	1,016.3	728.5
Portable air conditioners	725	--	--	196.2	666.9	452.7
Portable electric spas	238	--	--	63.9	216.8	148.4
Residential ventilating fans	159	--	--	42.7	145.0	99.2
Showerheads	1,446	11.9	31.1	928.9	1,317.9	1,532.3
Spray sprinkler bodies	--	--	16.7	--	--	--
Toilets (water closets)	--	--	19.4	--	--	--
Uninterruptible power supplies	811	--	--	216.0	730.9	504.3
Urinals	--	--	2.5	--	--	--
Water coolers	261	--	--	70.0	237.5	162.2
Total	12,842	46	144	5,539	11,600	10,461

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.