

States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards (Full report at <https://appliance-standards.org/document/states-go-first>)

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)
Faucets	138.4	1,183	4,458	83.0	105.8	144.5	251.6	2,112	8,012	137.2	136.3	234.3
Showerheads	98.7	810	2,120	57.6	75.5	101.3	179.5	1,472	3,854	96.3	97.3	165.3
Lawn spray sprinklers	--	--	966	--	--	--	--	--	1,581	--	--	--
Toilets	--	--	1,096	--	--	--	--	--	2,973	--	--	--
Computers and monitors	319.6	--	--	67.2	244.4	197.2	358.0	--	--	58.3	194.0	176.2
High CRI fluorescent lamps	480.5	--	--	101.1	367.5	305.8	158.4	--	--	25.8	85.8	78.5
Air purifiers	84.5	--	--	17.8	64.6	49.9	138.2	--	--	22.5	74.9	67.1
Pool pump replacement motors	83.6	--	--	17.6	64.0	49.4	0.0	--	--	0.0	0.0	0.0
Commercial fryers	1.7	746	--	34.3	1.3	40.7	3.6	1,628	--	74.8	2.0	88.3
Commercial dishwashers	6.9	164	228	8.9	5.3	13.1	16.6	394	549	20.7	9.0	29.2
Commercial steam cookers	12.5	67	213	5.7	9.6	11.5	27.4	145	465	11.1	14.8	21.3
Portable air conditioners	42.5	--	--	8.9	32.5	25.1	81.2	--	--	13.2	44.0	39.4
Urinals	--	--	347	--	--	--	--	--	756	--	--	--
Audio/video equipment	49.6	--	--	10.4	38.0	29.3	49.6	--	--	8.1	26.9	24.1
Uninterruptible power supplies	59.3	--	--	12.5	45.4	37.5	65.7	--	--	10.7	35.6	32.6
Telephones	27.7	--	--	5.8	21.2	17.3	27.7	--	--	4.5	15.0	13.7
Water coolers	16.9	--	--	3.6	13.0	10.8	30.8	--	--	5.0	16.7	15.3
Ventilation fans	12.5	--	--	2.6	9.6	7.4	27.4	--	--	4.5	14.9	13.3
Portable electric spas	12.9	--	--	2.7	9.8	7.6	23.4	--	--	3.8	12.7	11.4
Hot food holding cabinets	8.3	--	--	1.8	6.4	5.3	18.2	--	--	3.0	9.9	9.1
Compressors	11.9	--	--	2.5	9.1	7.6	28.2	--	--	4.6	15.3	14.0
Total	1,468	2,970	9,427	444	1,123	1,061	1,486	5,752	18,190	504	805	1,033

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding. Potential savings for pool pump replacement motors are zero in 2035 because we assume that the recommended standard would affect just seven years of product sales beginning in 2021.

	Potential annual utility bill savings (million 2016\$)		Net present value savings (million 2016\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Faucets	81.3	163.2	1,220.4	no cost	0.0
Showerheads	46.3	93.0	696.7	no cost	0.0
Lawn spray sprinklers	10.4	19.6	128.3	7.8	1.1
Toilets	11.8	36.9	323.6	no cost	0.0
Computers and monitors	41.8	47.9	242.7	2.5	2.1
High CRI fluorescent lamps	56.3	19.6	188.8	1.9	2.6
Air purifiers	12.7	21.4	111.2	3.0	2.7
Pool pump replacement motors	12.5	0.0	70.1	8.8	0.7
Commercial fryers	6.1	14.6	53.9	2.1	5.0
Commercial dishwashers	4.5	12.2	76.4	9.1	1.2
Commercial steam cookers	4.3	10.2	67.3	10.8	1.0
Portable air conditioners	6.4	12.6	69.5	3.7	2.5
Urinals	3.7	9.4	67.0	no cost	0.0
Audio/video equipment	7.4	7.7	65.3	no cost	0.0
Uninterruptible power supplies	7.1	8.0	44.8	3.0	1.9
Telephones	3.5	3.6	30.7	no cost	0.0
Water coolers	2.0	3.6	28.1	no cost	0.0
Ventilation fans	1.9	4.2	31.2	no cost	0.0
Portable electric spas	1.9	3.6	27.9	no cost	0.0
Hot food holding cabinets	1.0	2.1	11.6	3.7	2.6
Compressors	0.9	2.3	11.8	3.5	3.0
Total	324	496	3,567	7.3	-

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2020 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 21 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)
Faucets	2,767	23.4	88.5	1,585.6	1,723.7	2,710.2
Showerheads	1,974	16.2	42.4	1,108.3	1,229.7	1,906.9
Lawn spray sprinklers	--	--	18.2	--	--	--
Toilets	--	--	25.2	--	--	--
Computers and monitors	4,630	--	--	890.1	2,968.0	2,587.6
High CRI fluorescent lamps	4,999	--	--	1,038.1	3,457.0	3,003.0
Air purifiers	1,590	--	--	300.1	996.3	846.0
Pool pump replacement motors	846	--	--	170.1	574.6	471.7
Commercial fryers	36	16.3	--	748.4	22.2	885.2
Commercial dishwashers	156	3.7	5.1	197.4	95.7	283.4
Commercial steam cookers	274	1.5	4.6	117.2	168.8	230.5
Portable air conditioners	874	--	--	163.8	542.8	462.5
Urinals	--	--	7.6	--	--	--
Audio/video equipment	661	--	--	127.7	425.9	357.8
Uninterruptible power supplies	852	--	--	163.8	545.9	485.6
Telephones	370	--	--	71.7	239.0	209.5
Water coolers	339	--	--	63.7	211.1	191.1
Ventilation fans	273	--	--	50.9	168.6	144.1
Portable electric spas	258	--	--	48.4	160.5	136.6
Hot food holding cabinets	182	--	--	33.9	112.3	101.9
Compressors	267	--	--	49.7	164.5	149.3
Total	21,347	61	192	6,929	13,806	15,163

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding.