

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: Alabama

	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	100.3	285	1,884	18.4	8.9	58.7	182.4	502	3,387	35.0	6.7	91.5
Showerheads	71.6	189	896	12.5	6.3	41.1	130.1	344	1,630	24.3	4.8	64.5
Lawn spray sprinklers	--	--	957	--	--	--	--	--	1,566	--	--	--
Toilets	--	--	463	--	--	--	--	--	1,255	--	--	--
Computers and monitors	111.9	--	--	6.1	9.9	50.2	125.4	--	--	8.4	4.6	45.4
High CRI fluorescent lamps	178.5	--	--	9.7	15.8	82.5	59.5	--	--	4.0	2.2	21.8
Air purifiers	34.1	--	--	1.8	3.0	14.8	55.7	--	--	3.7	2.1	19.8
Pool pump replacement motors	60.2	--	--	3.3	5.3	26.1	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.7	313	--	14.3	0.1	16.9	1.5	682	--	31.2	0.1	36.8
Commercial dishwashers	2.9	69	95	3.3	0.3	5.0	7.0	165	230	8.0	0.3	11.3
Commercial steam cookers	5.3	28	89	1.6	0.5	3.9	11.5	61	195	3.5	0.4	7.5
Portable air conditioners	13.9	--	--	0.7	1.2	6.0	26.5	--	--	1.8	1.0	9.4
Urinals	--	--	145	--	--	--	--	--	317	--	--	--
Audio/video equipment	20.0	--	--	1.1	1.8	8.7	20.0	--	--	1.3	0.7	7.1
Uninterruptible power supplies	18.9	--	--	1.0	1.7	8.7	21.0	--	--	1.4	0.8	7.7
Telephones	13.0	--	--	0.7	1.1	5.9	13.0	--	--	0.9	0.5	4.7
Water coolers	8.4	--	--	0.5	0.7	3.9	15.3	--	--	1.0	0.6	5.7
Ventilation fans	5.0	--	--	0.3	0.4	2.2	11.1	--	--	0.7	0.4	3.9
Portable electric spas	3.0	--	--	0.2	0.3	1.3	5.4	--	--	0.4	0.2	1.9
Hot food holding cabinets	3.5	--	--	0.2	0.3	1.6	7.6	--	--	0.5	0.3	2.8
Compressors	7.8	--	--	0.4	0.7	3.6	18.6	--	--	1.2	0.7	6.9
Total	659	884	4,530	76	58	341	711	1,754	8,580	127	26	349

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	38.5	76.3	573.4	no cost	0.0
Showerheads	22.1	43.8	330.2	no cost	0.0
Lawn spray sprinklers	11.0	20.7	136.2	8.3	1.0
Toilets	5.3	16.6	145.3	no cost	0.0
Computers and monitors	13.4	15.1	71.4	2.3	2.2
High CRI fluorescent lamps	20.6	7.0	66.2	1.9	2.6
Air purifiers	4.2	7.0	32.1	2.4	3.2
Pool pump replacement motors	7.4	0.0	39.9	7.1	0.9
Commercial fryers	4.5	10.6	56.2	3.6	2.7
Commercial dishwashers	2.4	6.4	41.1	11.4	1.0
Commercial steam cookers	2.0	4.8	32.1	12.1	0.8
Portable air conditioners	1.7	3.3	16.8	3.0	2.9
Urinals	1.7	4.2	29.8	no cost	0.0
Audio/video equipment	2.5	2.5	21.4	no cost	0.0
Uninterruptible power supplies	2.2	2.5	13.5	2.8	1.9
Telephones	1.5	1.5	13.2	no cost	0.0
Water coolers	1.0	1.8	13.8	no cost	0.0
Ventilation fans	0.6	1.4	10.2	no cost	0.0
Portable electric spas	0.4	0.7	5.2	no cost	0.0
Hot food holding cabinets	0.4	0.9	4.8	3.7	2.6
Compressors	0.5	1.2	5.8	2.9	3.8
Total	144	228	1,659	8.3	-

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: **Alabama**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	2,006	5.6	37.4	381.0	111.4	1,087.2
Showerheads	1,431	3.8	17.9	262.2	79.5	764.5
Lawn spray sprinklers	--	--	18.0	--	--	--
Toilets	--	--	10.7	--	--	--
Computers and monitors	1,622	--	--	100.6	98.0	669.8
High CRI fluorescent lamps	1,862	--	--	115.0	140.2	825.2
Air purifiers	641	--	--	40.1	36.3	253.2
Pool pump replacement motors	609	--	--	35.4	42.5	253.2
Commercial fryers	15	6.8	--	311.5	0.8	368.5
Commercial dishwashers	65	1.5	2.2	74.7	3.5	109.4
Commercial steam cookers	115	0.6	1.9	35.0	6.2	80.1
Portable air conditioners	285	--	--	17.9	15.7	111.9
Urinals	--	--	3.2	--	--	--
Audio/video equipment	266	--	--	16.5	16.4	106.9
Uninterruptible power supplies	272	--	--	16.9	16.4	114.9
Telephones	173	--	--	10.8	10.7	73.0
Water coolers	169	--	--	10.6	9.4	70.7
Ventilation fans	110	--	--	7.0	5.9	43.1
Portable electric spas	59	--	--	3.7	3.3	23.3
Hot food holding cabinets	76	--	--	4.8	4.1	31.8
Compressors	176	--	--	11.2	9.4	73.3
Total	9,953	18	91	1,455	610	5,060

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.