Appliance Standards Awareness Project

2022 State Appliance Standards Recommendations

Savings estimates for: Alabama

	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	71.8	--	--	3.2	5.2	23.3	99.4	--	--	3.0	10.2	27.5
Commercial dishwashers	3.0	74	103	3.5	0.2	5.0	6.1	150	209	7.0	0.6	9.8
Commercial fryers	1.2	355	--	16.1	0.08	19.3	2.1	655	--	29.8	0.22	35.4
Commercial ovens	2.8	46	--	2.2	0.2	3.4	5.2	84	--	4.0	0.5	6.0
Commercial steam cookers	1.5	12	34	0.6	0.1	1.2	2.9	23	64	1.1	0.3	2.1
Electric vehicle supply equipment	7.3	--	--	0.3	0.5	2.4	45.2	--	--	1.4	4.6	12.5
Faucets	80.3	187	1,430	12.0	5.8	36.0	123.5	285	2,195	16.7	12.7	49.3
Gas fireplaces	--	83	--	3.8	--	4.4	--	192	--	8.7	--	10.2
General service lamps (state-regulated)	40.2	--	--	1.8	2.9	13.1	58.8	--	--	1.8	6.0	16.3
High CRI fluorescent lamps	34.4	--	--	1.5	2.5	11.8	8.5	--	--	0.3	0.9	2.5
Portable electric spas	17.3	--	--	0.8	1.2	5.6	25.3	--	--	0.8	2.6	7.0
Residential ventilating fans	10.2	--	--	0.4	0.7	3.3	23.5	--	--	0.7	2.4	6.5
Showerheads	75.9	173	919	11.2	5.5	33.8	116.8	266	1,414	15.6	12.0	46.5
Spray sprinkler bodies	--	--	2,389	--	--	--	--	--	3,675	--	--	--
Toilets (water closets)	--	--	424	--	--	--	--	--	1,016	--	--	--
Urinals	--	--	65	--	--	--	--	--	119	--	--	--
Water coolers	15.2	--	--	0.7	1.1	5.2	23.4	--	--	0.7	2.4	6.9
Total	**361**	**930**	**5,364**	**58**	**26**	**168**	**541**	**1,656**	**8,692**	**91**	**55**	**238**

Assuming a compliance date of 2024 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: Alabama

	Potential annual utility bill savings (million 2020$)		Net present value savings (million 2020$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	8.2	10.8	91.6	no cost	0.0
Commercial dishwashers	2.6	5.7	38.4	10.9	1.0
Commercial fryers	4.7	8.9	53.9	4.9	2.1
Commercial ovens	0.9	1.6	5.7	1.8	5.1
Commercial steam cookers	0.8	1.5	10.6	11.4	0.9
Electric vehicle supply equipment	0.8	4.9	30.2	no cost	0.0
Faucets	31.1	51.4	403.1	no cost	0.0
Gas fireplaces	1.4	3.4	22.7	17.4	0.7
General service lamps (state-regulated)	4.6	6.4	66.4	no cost**	0.5
High CRI fluorescent lamps	3.7	0.9	15.9	3.2	1.8
Portable electric spas	2.0	2.7	18.6	5.1	1.2
Residential ventilating fans	1.2	2.5	18.8	no cost	0.0
Showerheads	23.6	38.6	304.4	no cost	0.0
Spray sprinkler bodies	31.5	55.4	386.9	11.8	0.8
Toilets (water closets)	5.6	15.3	130.6	no cost	0.0
Urinals	0.9	1.8	13.3	no cost	0.0
Water coolers	1.6	2.3	19.3	no cost	0.0
Total	**125**	**214**	**1,630**	**23.8**	**–**

Assuming a compliance date of 2024 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 2024 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.

**While LEDs are generally more expensive to purchase than incandescent light bulbs, the significantly longer lifetime of LEDs means that over time, consumers actually save money on bulbs in addition to saving money on electricity bills.

Cumulative savings estimates for: Alabama

	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	1,242	--	--	47.3	106.0	382.6
Commercial dishwashers	64	1.6	2.2	73.3	5.6	103.8
Commercial fryers	23	7.2	--	327.7	2.0	390.6
Commercial ovens	58	0.9	--	44.1	5.0	67.8
Commercial steam cookers	31	0.3	0.7	12.5	2.7	23.5
Electric vehicle supply equipment	263	--	--	9.1	24.3	78.2
Faucets	1,482	3.4	26.4	211.8	127.1	637.7
Gas fireplaces	--	1.8	--	82.7	0.0	97.0
General service lamps (state-regulated)	697	--	--	27.6	60.7	216.4
High CRI fluorescent lamps	341	--	--	14.9	27.8	116.4
Portable electric spas	312	--	--	12.0	26.8	96.3
Residential ventilating fans	223	--	--	8.2	19.7	67.9
Showerheads	1,401	3.2	17.0	197.6	120.2	600.0
Spray sprinkler bodies	--	--	44.1	--	--	--
Toilets (water closets)	--	--	9.3	--	--	--
Urinals	--	--	1.3	--	--	--
Water coolers	281	--	--	10.6	24.1	91.3
Total	**6,419**	**18**	**101**	**1,079**	**552**	**2,969**

Assuming a compliance date of 2024 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.