

## Appliance Standards Awareness Project

### 2023 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 <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air purifiers	64.4	--	--	3.1	5.5	19.5	105.3	--	--	2.8	8.4	22.6
Commercial dishwashers	3.1	77	107	3.6	0.3	5.2	7.5	184	256	8.5	0.6	11.5
Commercial fryers	1.2	397	--	18.0	0.1	21.5	2.6	865	--	39.3	0.21	46.6
Commercial ovens	3.2	51	--	2.5	0.3	3.8	7.0	112	--	5.2	0.6	7.5
Commercial steam cookers	2.0	16	45	0.8	0.2	1.6	4.4	35	98	1.7	0.4	2.9
Electric vehicle supply equipment	6.1	--	--	0.3	0.5	1.9	40.6	--	--	1.1	3.2	8.7
Faucets	71.1	145	1,291	9.9	6.0	29.2	129.2	262	2,345	15.3	10.3	41.6
Gas fireplaces	--	71	--	3.2	--	3.8	--	194	--	8.8	--	10.3
High CRI fluorescent lamps	27.4	--	--	1.3	2.3	9.4	6.9	--	--	0.2	0.6	1.5
Portable electric spas	15.3	--	--	0.7	1.3	4.6	25.8	--	--	0.7	2.1	5.5
Residential ventilating fans	5.3	--	--	0.3	0.4	1.6	14.4	--	--	0.4	1.2	3.1
Showerheads	61.4	124	761	8.5	5.2	25.2	111.7	225	1,384	13.1	8.9	35.9
Spray sprinkler bodies	--	--	2,014	--	--	--	--	--	3,661	--	--	--
Toilets (water closets)	--	--	286	--	--	--	--	--	761	--	--	--
Urinals	--	--	55	--	--	--	--	--	119	--	--	--
Water coolers	12.6	--	--	0.6	1.1	4.4	22.9	--	--	0.6	1.8	5.2
<b>Total</b>	<b>273</b>	<b>881</b>	<b>4,559</b>	<b>53</b>	<b>23</b>	<b>132</b>	<b>478</b>	<b>1,877</b>	<b>8,625</b>	<b>98</b>	<b>38</b>	<b>203</b>

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: Alabama

	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	8.5	13.5	91.3	6.1	1.1
Commercial dishwashers	2.9	7.6	49.1	11.3	1.0
Commercial fryers	5.6	12.7	74.8	5.1	2.0
Commercial ovens	1.1	2.3	8.2	1.9	5.0
Commercial steam cookers	1.1	2.6	17.0	11.8	0.8
Electric vehicle supply equipment	0.8	5.2	31.9	no cost	0.0
Faucets	30.1	59.6	448.8	no cost	0.0
Gas fireplaces	1.3	3.7	24.3	18.3	0.7
High CRI fluorescent lamps	3.1	0.8	14.0	3.3	1.8
Portable electric spas	2.0	3.3	21.9	5.7	1.1
Residential ventilating fans	0.7	1.9	13.0	no cost	0.0
Showerheads	21.0	41.1	311.0	no cost	0.0
Spray sprinkler bodies	28.3	59.3	400.7	12.0	0.8
Toilets (water closets)	4.0	12.3	105.5	no cost	0.0
Urinals	0.8	1.9	13.8	no cost	0.0
Water coolers	1.4	2.4	19.4	no cost	0.0
<b>Total</b>	<b>113</b>	<b>230</b>	<b>1,644</b>	<b>17.4</b>	<b>-</b>

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: [Alabama](#)

	Potential cumulative savings through 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air purifiers	1,211	--	--	46.8	102.8	321.0
Commercial dishwashers	71	1.7	2.4	81.2	5.9	112.7
Commercial fryers	26	8.7	--	393.2	2.2	467.3
Commercial ovens	70	1.1	--	53.2	5.9	79.8
Commercial steam cookers	44	0.4	1.0	17.6	3.7	31.7
Electric vehicle supply equipment	230	--	--	7.6	19.0	56.3
Faucets	1,421	2.9	25.8	185.0	120.4	527.2
Gas fireplaces	--	1.7	--	74.8	0.0	87.7
High CRI fluorescent lamps	272	--	--	12.7	24.1	88.1
Portable electric spas	292	--	--	11.4	24.9	77.5
Residential ventilating fans	123	--	--	4.5	10.3	31.5
Showerheads	1,228	2.5	15.2	158.9	104.1	454.6
Spray sprinkler bodies	--	--	40.3	--	--	--
Toilets (water closets)	--	--	6.6	--	--	--
Urinals	--	--	1.2	--	--	--
Water coolers	252	--	--	9.6	21.3	74.9
<b>Total</b>	<b>5,241</b>	<b>19</b>	<b>92</b>	<b>1,057</b>	<b>445</b>	<b>2,410</b>

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.