

## Appliance Standards Awareness Project

### 2025 State Appliance Standards Recommendations

#### Savings estimates for: South Carolina

	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> (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thousand metric tons)
Commercial battery chargers	2.0	--	--	0.1	0.1	0.3	7.3	--	--	0.2	0.3	1.0
Commercial dishwashers	5.0	64	90	3.1	0.1	4.1	14.4	184	256	8.7	0.5	11.7
Commercial fryers	0.3	207	--	9.4	0.01	11.0	1.0	711	--	32.2	0.04	37.8
Commercial ovens	2.9	21	--	1.1	0.1	1.6	10.1	73	--	3.6	0.4	5.3
Commercial steam cookers	0.9	9	23	0.4	0.03	0.6	3.2	31	80	1.5	0.1	2.1
Faucets	40.0	53	716	4.0	1.1	8.7	114.2	152	2,044	9.9	4.0	23.7
Gas fireplaces	--	98	--	4.4	--	5.2	--	377	--	17.1	--	19.9
High CRI fluorescent lamps	13.6	--	--	0.5	0.4	2.0	7.1	--	--	0.2	0.3	1.0
Portable electric spas	10.8	--	--	0.4	0.3	1.6	27.1	--	--	0.7	1.0	3.7
Residential ventilating fans	1.4	--	--	0.1	0.04	0.2	5.5	--	--	0.1	0.2	0.8
Server power supplies	19.0	--	--	0.8	0.5	2.8	27.2	--	--	0.7	1.0	3.7
Showerheads	29.8	39	365	3.0	0.8	6.5	85.3	113	1,043	7.3	3.0	17.7
Spray sprinkler bodies	--	--	2,908	--	--	--	--	--	8,308	--	--	--
Toilets (water closets)	--	--	181	--	--	--	--	--	674	--	--	--
Urinals	--	--	34	--	--	--	--	--	118	--	--	--
Water coolers	13.3	--	--	0.5	0.4	2.0	38.0	--	--	1.0	1.3	5.2
<b>Total</b>	<b>139</b>	<b>492</b>	<b>4,317</b>	<b>28</b>	<b>4</b>	<b>47</b>	<b>340</b>	<b>1,640</b>	<b>12,523</b>	<b>83</b>	<b>12</b>	<b>134</b>

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

## Savings estimates for: South Carolina

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.5	3.3	3.8
Commercial dishwashers	2.5	8.1	71.4	0.9
Commercial fryers	2.2	8.2	58.6	2.3
Commercial ovens	0.5	1.9	6.9	5.6
Commercial steam cookers	0.5	2.1	18.4	0.8
Faucets	16.9	54.7	538.4	0.0
Gas fireplaces	1.4	5.9	53.4	0.9
High CRI fluorescent lamps	1.4	0.8	8.4	1.9
Portable electric spas	1.4	3.8	33.2	0.9
Residential ventilating fans	0.2	0.8	7.5	0.0
Server power supplies	1.8	2.8	23.4	1.0
Showerheads	10.0	32.2	316.8	0.0
Spray sprinkler bodies	44.8	147.4	1,339.3	0.8
Toilets (water closets)	2.8	12.0	149.6	0.0
Urinals	0.5	2.1	20.0	0.0
Water coolers	1.3	3.9	37.7	0.0
<b>Total</b>	<b>88</b>	<b>287</b>	<b>2,686</b>	<b>-</b>

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

## Cumulative savings estimates for: **South Carolina**

	Potential cumulative savings through 2050						
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	135	--	--	3.5	3.6	16.4	9.7
Commercial dishwashers	273	3.5	4.9	165.6	7.5	218.6	153.9
Commercial fryers	18	12.8	--	580.5	0.5	679.3	146.6
Commercial ovens	182	1.3	--	64.4	5.0	91.9	33.2
Commercial steam cookers	58	0.6	1.4	26.7	1.6	36.6	38.0
Faucets	2,171	2.9	38.8	189.5	59.8	422.5	1040.0
Gas fireplaces	--	6.9	--	313.2	--	365.6	107.4
High CRI fluorescent lamps	197	--	--	6.9	6.4	28.5	20.8
Portable electric spas	531	--	--	14.6	14.7	66.5	73.1
Residential ventilating fans	101	--	--	2.6	2.7	12.2	14.0
Server power supplies	585	--	--	16.8	16.5	74.7	58.6
Showerheads	1,620	2.1	19.8	141.1	44.7	314.9	611.6
Spray sprinkler bodies	--	--	157.9	--	--	--	2829.0
Toilets (water closets)	--	--	13.8	--	--	--	250.9
Urinals	--	--	2.1	--	--	--	38.3
Water coolers	721	--	--	19.6	19.9	89.8	72.6
<b>Total</b>	<b>6,592</b>	<b>30</b>	<b>239</b>	<b>1,545</b>	<b>183</b>	<b>2,417</b>	<b>5,498</b>

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.