

Appliance Standards Awareness Project

2023 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 _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	66.9	--	--	6.5	8.5	21.8	109.4	--	--	6.8	10.8	30.5
Commercial dishwashers	3.2	78	109	3.9	0.4	5.0	7.6	188	261	9.0	0.8	12.3
Commercial fryers	1.2	404	--	18.4	0.2	21.8	2.6	882	--	40.1	0.3	47.6
Commercial ovens	3.3	52	--	2.7	0.4	3.6	7.1	114	--	5.6	0.7	8.2
Commercial steam cookers	2.1	16	46	0.9	0.3	1.4	4.5	36	100	1.9	0.4	3.3
Electric vehicle supply equipment	6.3	--	--	0.6	0.8	2.1	42.1	--	--	2.6	4.2	11.8
Faucets	78.6	124	1,341	13.3	10.0	32.2	142.8	224	2,435	19.1	14.1	51.7
Gas fireplaces	--	196	--	8.9	--	10.4	--	535	--	24.2	--	28.4
High CRI fluorescent lamps	28.7	--	--	2.8	3.6	7.7	7.2	--	--	0.4	0.7	2.1
Portable electric spas	19.8	--	--	1.9	2.5	6.5	33.3	--	--	2.1	3.3	9.3
Residential ventilating fans	5.5	--	--	0.5	0.7	1.8	15.0	--	--	0.9	1.5	4.2
Showerheads	67.9	106	791	11.4	8.6	27.8	123.4	192	1,437	16.4	12.2	44.6
Spray sprinkler bodies	--	--	4,592	--	--	--	--	--	8,350	--	--	--
Toilets (water closets)	--	--	296	--	--	--	--	--	787	--	--	--
Urinals	--	--	56	--	--	--	--	--	121	--	--	--
Water coolers	12.3	--	--	1.2	1.6	3.3	22.4	--	--	1.4	2.2	6.9
Total	296	976	7,230	73	38	145	518	2,169	13,492	131	51	261

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: South Carolina

	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	8.6	14.0	93.4	6.1	1.2
Commercial dishwashers	2.6	6.8	43.4	9.9	1.1
Commercial fryers	4.0	9.1	48.2	3.6	2.8
Commercial ovens	0.8	1.8	3.9	1.4	6.5
Commercial steam cookers	1.0	2.4	15.7	10.8	0.9
Electric vehicle supply equipment	0.8	5.4	33.1	no cost	0.0
Faucets	30.8	61.1	459.6	no cost	0.0
Gas fireplaces	2.9	8.2	52.8	14.7	0.8
High CRI fluorescent lamps	2.8	0.8	12.1	2.9	2.0
Portable electric spas	2.6	4.2	27.9	5.7	1.1
Residential ventilating fans	0.7	1.9	13.4	no cost	0.0
Showerheads	21.4	42.0	317.4	no cost	0.0
Spray sprinkler bodies	64.4	135.2	913.8	12.0	0.8
Toilets (water closets)	4.2	12.7	109.2	no cost	0.0
Urinals	0.8	2.0	14.0	no cost	0.0
Water coolers	1.2	2.1	16.3	no cost	0.0
Total	150	310	2,174	15.3	-

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: [South Carolina](#)

	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	1,258	--	--	101.3	146.2	388.9
Commercial dishwashers	72	1.8	2.5	85.7	8.2	116.6
Commercial fryers	26	8.8	--	401.7	3.0	476.7
Commercial ovens	71	1.1	--	57.2	8.2	82.9
Commercial steam cookers	45	0.4	1.0	19.8	5.2	33.3
Electric vehicle supply equipment	239	--	--	18.2	26.6	72.4
Faucets	1,571	2.5	26.8	237.8	182.1	616.1
Gas fireplaces	--	4.5	--	206.1	--	241.5
High CRI fluorescent lamps	285	--	--	23.9	34.3	88.6
Portable electric spas	378	--	--	30.3	43.8	116.6
Residential ventilating fans	127	--	--	10.0	14.6	39.0
Showerheads	1,358	2.1	15.8	204.5	157.4	531.4
Spray sprinkler bodies	--	--	91.8	--	--	--
Toilets (water closets)	--	--	6.8	--	--	--
Urinals	--	--	1.2	--	--	--
Water coolers	246	--	--	19.7	28.5	78.1
Total	5,677	21	146	1,416	658	2,882

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.