Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: South Carolina

	Potential annual savings in 2040								
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (thousand metric tons)	Summer peak demand (MW)	Winter peak demand (MW)	Utility bills (million 2025$)
Commercial & industrial fans	240.5	--	--	9.6	19.2	26.8	39.6	32.3	22.5
Commercial battery chargers	5.9	--	--	0.2	0.5	0.7	0.7	0.7	0.5
Commercial dishwashers	36.5	158	235	8.6	3.0	12.4	2.6	4.0	11.0
Commercial fryers	1.0	684	--	31.0	0.3	36.3	0.2	0.2	9.9
Commercial ovens	9.7	70	--	3.6	0.8	4.8	1.7	2.1	2.2
Commercial steam cookers	3.1	30	77	1.5	0.3	1.9	0.6	0.7	2.2
Computer server power supplies	8.7	--	--	0.3	0.7	1.0	1.0	1.0	1.0
Electric motors	344.3	--	--	13.7	27.5	38.3	59.6	46.8	38.8
Faucets	58.6	132	1,067	8.3	4.7	13.5	8.1	14.9	31.2
Gas fireplaces	--	321	--	14.6	0.1	17.0	--	--	6.3
High CRI fluorescent lamps	7.3	--	--	0.3	0.6	0.8	1.2	0.9	0.9
Portable electric spas	45.8	--	--	1.8	3.7	5.1	3.4	3.6	6.9
Showerheads	130.2	173	1,594	13.0	10.4	23.6	18.0	33.1	53.0
Spray sprinkler bodies	--	--	13,734	--	--	--	--	--	108.7
Toilets (water closets)	--	--	1,083	--	--	--	--	--	20.4
Urinals	--	--	101	--	--	--	--	--	1.9
Water coolers	38.5	--	--	1.5	3.1	4.3	4.4	4.4	4.6
Total	**930**	**1,567**	**17,891**	**108**	**75**	**186**	**141**	**145**	**322**

Assuming a compliance date of 2029 for all the products. We have not estimated savings for commercial hot-food holding cabinets, computers and computer monitors, or residential ventilating fans due to insufficient data on the current market.

Cumulative savings estimates through 2050 for: South Carolina

	Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (thousand metric tons)	Utility bills (million 2025$)	Payback period (years)
Commercial & industrial fans	4,644.9	--	--	186.2	323.7	656.3	439.1	1.5
Commercial battery chargers	110.8	--	--	4.4	6.9	15.5	9.5	3.8
Commercial dishwashers	660.4	2.8	4.2	155.1	42.4	242.7	202.5	1.9
Commercial fryers	16.2	11.4	--	518.3	4.4	606.6	163.7	2.1
Commercial ovens	162.4	1.2	--	59.6	11.1	84.7	36.2	5.4
Commercial steam cookers	52.1	0.5	1.3	24.5	3.6	33.5	38.1	0.7
Computer server power supplies	169.7	--	--	7.0	13.9	24.4	20.3	2.8
Electric motors	6,142.7	--	--	247.6	453.2	864.0	695.7	1.3
Faucets	996.9	2.4	18.2	150.4	70.6	268.3	544.5	0.0
Gas fireplaces	--	6.1	--	275.2	1.8	321.3	120.7	0.8
High CRI fluorescent lamps	149.3	--	--	6.6	18.2	22.5	18.3	2.0
Portable electric spas	808.6	--	--	32.5	59.0	113.6	123.3	1.6
Showerheads	2,213.1	2.9	27.1	221.5	155.9	464.4	917.7	0.0
Spray sprinkler bodies	--	--	233.5	--	--	--	1,890.7	1.3
Toilets (water closets)	--	--	22.0	--	--	--	431.5	0.0
Urinals	--	--	1.7	--	--	--	32.5	0.0
Water coolers	655.3	--	--	26.2	45.9	91.6	78.7	0.0
Total	**16,782**	**27**	**308**	**1,915**	**1,211**	**3,809**	**5,763**	**–**

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