

States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards (Full report at <https://appliance-standards.org/document/states-go-first>)

Savings estimates for: South Carolina

	Potential annual savings in 2025						Potential annual savings in 2035					
	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)
Faucets	117.9	178	1,845	22.6	14.2	53.3	214.4	307	3,315	33.2	16.7	82.5
Showerheads	84.1	112	877	15.4	10.1	37.2	153.0	205	1,594	23.0	11.9	58.0
Lawn spray sprinklers	--	--	2,196	--	--	--	--	--	3,593	--	--	--
Toilets	--	--	456	--	--	--	--	--	1,235	--	--	--
Computers and monitors	135.3	--	--	16.6	16.3	49.9	151.5	--	--	13.6	11.8	47.6
High CRI fluorescent lamps	185.2	--	--	22.7	22.3	68.1	61.3	--	--	5.5	4.8	19.4
Air purifiers	33.4	--	--	4.1	4.0	12.4	54.7	--	--	4.9	4.3	16.9
Pool pump replacement motors	25.4	--	--	3.1	3.1	9.4	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.7	319	--	14.6	0.1	17.2	1.5	696	--	31.8	0.1	37.4
Commercial dishwashers	2.9	70	97	3.5	0.4	4.8	7.1	168	235	8.3	0.6	11.2
Commercial steam cookers	5.4	28	91	2.0	0.6	3.5	11.7	62	199	3.9	0.9	7.0
Portable air conditioners	9.2	--	--	1.1	1.1	3.4	17.6	--	--	1.6	1.4	5.4
Urinals	--	--	148	--	--	--	--	--	323	--	--	--
Audio/video equipment	19.7	--	--	2.4	2.4	7.3	19.7	--	--	1.8	1.5	6.1
Uninterruptible power supplies	26.1	--	--	3.2	3.1	9.6	28.9	--	--	2.6	2.2	9.2
Telephones	12.3	--	--	1.5	1.5	4.5	12.3	--	--	1.1	1.0	3.9
Water coolers	7.9	--	--	1.0	1.0	2.9	14.3	--	--	1.3	1.1	4.6
Ventilation fans	4.9	--	--	0.6	0.6	1.8	10.9	--	--	1.0	0.8	3.4
Portable electric spas	3.8	--	--	0.5	0.5	1.4	6.9	--	--	0.6	0.5	2.1
Hot food holding cabinets	3.6	--	--	0.4	0.4	1.3	7.8	--	--	0.7	0.6	2.5
Compressors	6.9	--	--	0.8	0.8	2.5	16.3	--	--	1.5	1.3	5.2
Total	685	708	5,710	116	83	291	790	1,438	10,494	136	61	322

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding. Potential savings for pool pump replacement motors are zero in 2035 because we assume that the recommended standard would affect just seven years of product sales beginning in 2021.

	Potential annual utility bill savings (million 2016\$)		Net present value savings (million 2016\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Faucets	40.8	79.8	602.3	no cost	0.0
Showerheads	23.9	46.6	352.7	no cost	0.0
Lawn spray sprinklers	25.1	47.4	312.4	8.3	1.0
Toilets	5.2	16.3	142.7	no cost	0.0
Computers and monitors	17.4	19.4	96.9	2.5	2.0
High CRI fluorescent lamps	21.7	7.4	71.7	1.9	2.5
Air purifiers	4.9	8.0	41.2	2.8	2.7
Pool pump replacement motors	3.7	0.0	20.4	8.5	0.7
Commercial fryers	3.6	8.4	39.5	2.8	3.7
Commercial dishwashers	2.2	5.9	37.7	10.4	1.1
Commercial steam cookers	2.0	4.7	31.1	11.6	0.9
Portable air conditioners	1.4	2.6	14.2	3.5	2.4
Urinals	1.7	4.3	30.4	no cost	0.0
Audio/video equipment	2.9	2.9	24.8	no cost	0.0
Uninterruptible power supplies	3.1	3.4	19.0	2.9	1.9
Telephones	1.5	1.5	13.2	no cost	0.0
Water coolers	0.9	1.7	12.8	no cost	0.0
Ventilation fans	0.7	1.6	11.8	no cost	0.0
Portable electric spas	0.6	1.0	7.8	no cost	0.0
Hot food holding cabinets	0.4	0.9	4.9	3.7	2.5
Compressors	0.5	1.1	5.5	3.0	3.5
Total	164	265	1,893	8.2	-

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2020 and 2035. 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 2035 for the package of 21 recommended standards divided by the present value of the total additional costs.

Cumulative savings estimates for: **South Carolina**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	2,358	3.5	36.6	401.0	223.8	970.8
Showerheads	1,683	2.2	17.5	276.3	159.7	681.2
Lawn spray sprinklers	--	--	41.3	--	--	--
Toilets	--	--	10.5	--	--	--
Computers and monitors	1,960	--	--	207.6	195.3	676.5
High CRI fluorescent lamps	1,928	--	--	217.9	224.0	683.1
Air purifiers	629	--	--	65.4	60.3	210.7
Pool pump replacement motors	256	--	--	28.7	27.4	89.5
Commercial fryers	15	7.0	--	318.4	1.4	374.8
Commercial dishwashers	67	1.6	2.2	78.7	6.2	106.9
Commercial steam cookers	117	0.6	2.0	40.3	10.9	73.4
Portable air conditioners	190	--	--	19.6	17.9	63.3
Urinals	--	--	3.2	--	--	--
Audio/video equipment	262	--	--	27.8	26.4	88.7
Uninterruptible power supplies	374	--	--	39.6	37.3	130.5
Telephones	164	--	--	17.5	16.6	57.1
Water coolers	158	--	--	16.3	15.0	54.8
Ventilation fans	108	--	--	11.1	10.1	35.9
Portable electric spas	76	--	--	7.8	7.2	25.3
Hot food holding cabinets	78	--	--	8.0	7.3	26.9
Compressors	155	--	--	15.8	14.4	53.3
Total	10,577	15	113	1,798	1,061	4,403

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding.