

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: Oklahoma

	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	65.6	299	1,496	40.3	15.9	46.5	119.3	530	2,688	61.7	24.1	77.2
Showerheads	46.8	201	711	28.2	11.3	32.5	85.1	366	1,293	43.5	17.2	54.5
Lawn spray sprinklers	--	--	1,127	--	--	--	--	--	1,844	--	--	--
Toilets	--	--	368	--	--	--	--	--	998	--	--	--
Computers and monitors	105.0	--	--	42.7	25.4	48.9	117.5	--	--	37.1	23.7	49.4
High CRI fluorescent lamps	185.5	--	--	75.4	44.9	86.4	59.7	--	--	18.8	12.1	25.4
Air purifiers	26.8	--	--	10.9	6.5	12.5	43.9	--	--	13.8	8.9	18.1
Pool pump replacement motors	29.2	--	--	11.9	7.1	13.6	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.6	252	--	11.7	0.1	13.7	1.2	550	--	25.4	0.2	29.7
Commercial dishwashers	2.3	55	77	3.5	0.6	4.0	5.6	133	185	7.8	1.1	9.5
Commercial steam cookers	4.2	23	72	2.7	1.0	3.2	9.2	49	157	5.2	1.9	6.6
Portable air conditioners	12.5	--	--	5.1	3.0	5.8	23.8	--	--	7.5	4.8	9.8
Urinals	--	--	117	--	--	--	--	--	256	--	--	--
Audio/video equipment	15.8	--	--	6.4	3.8	7.3	15.8	--	--	5.0	3.2	6.5
Uninterruptible power supplies	19.9	--	--	8.1	4.8	9.2	22.0	--	--	6.9	4.4	9.4
Telephones	11.1	--	--	4.5	2.7	5.2	11.1	--	--	3.5	2.2	4.7
Water coolers	7.4	--	--	3.0	1.8	3.5	13.5	--	--	4.3	2.7	5.8
Ventilation fans	4.0	--	--	1.6	1.0	1.8	8.7	--	--	2.7	1.8	3.6
Portable electric spas	2.7	--	--	1.1	0.6	1.2	4.8	--	--	1.5	1.0	2.0
Hot food holding cabinets	2.8	--	--	1.1	0.7	1.3	6.1	--	--	1.9	1.2	2.6
Compressors	4.3	--	--	1.7	1.0	2.0	10.1	--	--	3.2	2.0	4.3
Total	546	830	3,968	260	132	299	558	1,628	7,422	250	112	319

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	27.3	54.6	408.9	no cost	0.0
Showerheads	15.2	30.6	229.4	no cost	0.0
Lawn spray sprinklers	12.9	24.3	160.4	8.3	1.0
Toilets	4.2	13.2	115.5	no cost	0.0
Computers and monitors	9.5	10.9	39.2	1.8	2.8
High CRI fluorescent lamps	14.9	5.1	27.4	1.4	3.5
Air purifiers	2.8	4.7	19.1	2.1	3.6
Pool pump replacement motors	3.1	0.0	16.1	6.1	1.0
Commercial fryers	2.7	6.5	30.2	2.8	3.6
Commercial dishwashers	1.7	4.5	28.3	9.9	1.1
Commercial steam cookers	1.4	3.4	22.2	10.6	1.0
Portable air conditioners	1.3	2.6	11.9	2.5	3.3
Urinals	1.3	3.4	24.1	no cost	0.0
Audio/video equipment	1.7	1.7	14.5	no cost	0.0
Uninterruptible power supplies	1.6	1.9	8.0	2.0	2.6
Telephones	1.0	1.0	8.4	no cost	0.0
Water coolers	0.6	1.1	8.5	no cost	0.0
Ventilation fans	0.4	0.9	6.9	no cost	0.0
Portable electric spas	0.3	0.5	4.0	no cost	0.0
Hot food holding cabinets	0.2	0.5	2.3	2.6	3.6
Compressors	0.2	0.6	2.8	2.6	3.9
Total	104	172	1,188	6.6	-

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: **Oklahoma**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	1,312	5.9	29.7	744.0	286.5	886.2
Showerheads	936	4.0	14.2	523.1	204.4	623.2
Lawn spray sprinklers	--	--	21.2	--	--	--
Toilets	--	--	8.5	--	--	--
Computers and monitors	1,520	--	--	559.6	336.3	683.6
High CRI fluorescent lamps	1,920	--	--	735.1	438.6	897.8
Air purifiers	505	--	--	183.7	110.6	221.0
Pool pump replacement motors	295	--	--	112.5	67.5	132.6
Commercial fryers	12	5.5	--	254.9	2.6	297.7
Commercial dishwashers	53	1.2	1.7	75.9	11.4	90.1
Commercial steam cookers	92	0.5	1.6	55.7	20.1	67.8
Portable air conditioners	256	--	--	92.7	55.8	111.8
Urinals	--	--	2.6	--	--	--
Audio/video equipment	210	--	--	77.4	46.5	92.6
Uninterruptible power supplies	285	--	--	105.0	63.1	129.6
Telephones	149	--	--	54.9	33.0	67.4
Water coolers	149	--	--	54.0	32.5	67.3
Ventilation fans	87	--	--	31.3	18.9	37.8
Portable electric spas	53	--	--	19.3	11.6	23.2
Hot food holding cabinets	61	--	--	22.2	13.4	27.7
Compressors	96	--	--	34.6	20.8	43.2
Total	7,990	17	79	3,736	1,774	4,501

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.