

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: Texas

	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	386.1	2,417	10,356	181.9	61.9	311.7	702.0	4,299	18,605	287.8	79.7	516.7
Showerheads	275.5	1,641	4,920	126.0	44.2	218.0	500.9	2,984	8,946	201.6	56.8	364.2
Lawn spray sprinklers	--	--	10,161	--	--	--	--	--	16,627	--	--	--
Toilets	--	--	2,558	--	--	--	--	--	6,931	--	--	--
Computers and monitors	678.0	--	--	126.1	108.7	330.9	759.3	--	--	99.6	86.1	317.0
High CRI fluorescent lamps	1,220.3	--	--	227.0	195.6	606.3	391.1	--	--	51.3	44.4	164.6
Air purifiers	168.6	--	--	31.4	27.0	80.0	275.8	--	--	36.2	31.3	113.3
Pool pump replacement motors	200.3	--	--	37.3	32.1	95.1	0.0	--	--	0.0	0.0	0.0
Commercial fryers	4.0	1,791	--	82.3	0.6	97.1	8.6	3,907	--	179.1	1.0	211.2
Commercial dishwashers	16.5	393	547	21.0	2.7	29.1	39.8	946	1,317	48.3	4.5	67.1
Commercial steam cookers	30.1	160	511	12.9	4.8	23.5	65.6	349	1,115	24.5	7.4	46.2
Portable air conditioners	47.9	--	--	8.9	7.7	22.8	91.5	--	--	12.0	10.4	37.6
Urinals	--	--	832	--	--	--	--	--	1,814	--	--	--
Audio/video equipment	99.1	--	--	18.4	15.9	47.0	99.1	--	--	13.0	11.2	40.7
Uninterruptible power supplies	130.2	--	--	24.2	20.9	64.5	144.3	--	--	18.9	16.4	60.8
Telephones	72.5	--	--	13.5	11.6	35.7	72.5	--	--	9.5	8.2	30.4
Water coolers	49.0	--	--	9.1	7.9	24.4	89.1	--	--	11.7	10.1	37.6
Ventilation fans	24.9	--	--	4.6	4.0	11.8	54.7	--	--	7.2	6.2	22.5
Portable electric spas	10.7	--	--	2.0	1.7	5.1	19.4	--	--	2.5	2.2	8.0
Hot food holding cabinets	20.0	--	--	3.7	3.2	10.0	43.7	--	--	5.7	5.0	18.4
Compressors	26.2	--	--	4.9	4.2	13.0	61.8	--	--	8.1	7.0	26.1
Total	3,460	6,401	29,885	935	555	2,026	3,419	12,485	55,357	1,017	388	2,082

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	187.8	372.7	2,807.5	no cost	0.0
Showerheads	105.0	208.0	1,572.3	no cost	0.0
Lawn spray sprinklers	116.4	219.4	1,445.8	8.3	1.0
Toilets	29.3	91.5	801.1	no cost	0.0
Computers and monitors	71.8	78.5	343.4	2.0	2.6
High CRI fluorescent lamps	126.2	40.0	358.4	1.7	2.9
Air purifiers	18.5	29.1	124.8	2.1	3.7
Pool pump replacement motors	21.9	0.0	115.9	6.4	1.0
Commercial fryers	16.8	40.1	168.4	2.4	4.2
Commercial dishwashers	11.6	30.9	196.0	9.7	1.2
Commercial steam cookers	10.4	24.9	164.5	11.0	1.0
Portable air conditioners	5.2	9.7	47.0	2.6	3.4
Urinals	9.5	23.9	170.8	no cost	0.0
Audio/video equipment	10.8	10.5	93.2	no cost	0.0
Uninterruptible power supplies	13.5	14.7	77.7	2.5	2.3
Telephones	7.6	7.4	65.9	no cost	0.0
Water coolers	5.1	9.1	72.0	no cost	0.0
Ventilation fans	2.7	5.8	44.1	no cost	0.0
Portable electric spas	1.2	2.1	16.4	no cost	0.0
Hot food holding cabinets	2.1	4.4	23.5	3.3	3.0
Compressors	1.7	4.1	20.0	2.9	3.6
Total	775	1,227	8,729	7.1	-

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: Texas

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	7,722	47.7	205.6	3,380.7	1,050.8	5,920.0
Showerheads	5,510	32.8	98.4	2,357.0	749.7	4,159.4
Lawn spray sprinklers	--	--	191.2	--	--	--
Toilets	--	--	58.9	--	--	--
Computers and monitors	9,822	--	--	1,578.8	1,373.2	4,477.8
High CRI fluorescent lamps	12,618	--	--	2,197.3	1,923.3	6,083.2
Air purifiers	3,172	--	--	499.2	434.3	1,394.2
Pool pump replacement motors	2,026	--	--	343.7	299.5	918.4
Commercial fryers	86	39.1	--	1,792.6	11.7	2,114.7
Commercial dishwashers	374	8.9	12.4	461.8	50.1	641.4
Commercial steam cookers	656	3.5	11.2	260.7	88.5	484.6
Portable air conditioners	985	--	--	153.7	133.6	431.3
Urinals	--	--	18.1	--	--	--
Audio/video equipment	1,318	--	--	213.1	185.5	586.6
Uninterruptible power supplies	1,869	--	--	300.5	261.4	864.5
Telephones	969	--	--	156.7	136.4	446.5
Water coolers	980	--	--	153.4	133.4	449.3
Ventilation fans	545	--	--	84.6	73.5	238.3
Portable electric spas	214	--	--	33.5	29.1	93.7
Hot food holding cabinets	437	--	--	67.7	58.9	199.1
Compressors	587	--	--	90.8	78.9	267.3
Total	49,890	132	596	14,126	7,072	29,770

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.