

## Appliance Standards Awareness Project

### 2024 State Appliance Standards Recommendations

#### Savings estimates for: Texas

	Potential annual savings in 2030						Potential annual savings in 2040					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Commercial battery chargers	19.1	--	--	1.2	0.3	3.6	56.1	--	--	2.8	0.5	9.0
Commercial dishwashers	24.9	612	853	29.3	0.4	37.2	72.9	1,793	2,497	84.9	0.6	107.0
Commercial fryers	6.9	2,296	--	104.5	0.1	123.3	18.3	6,123	--	278.4	0.2	328.2
Commercial ovens	18.1	291	--	14.3	0.3	18.9	48.3	775	--	37.5	0.4	49.0
Commercial steam cookers	11.5	91	255	4.9	0.2	7.0	30.6	244	680	12.6	0.3	17.9
Faucets	122.0	611	3,081	35.4	2.2	55.5	271.0	1,346	6,817	74.4	2.3	115.2
Gas fireplaces	--	288	--	13.0	--	15.3	--	927	--	42.0	--	49.2
High CRI fluorescent lamps	126.4	--	--	8.0	2.2	23.9	46.2	--	--	2.3	0.4	7.5
Irrigation controllers	--	--	9,372	--	--	--	--	--	30,200	--	--	--
Portable electric spas	53.6	--	--	3.4	1.0	10.1	105.6	--	--	5.2	0.9	17.0
Residential ventilating fans	8.6	--	--	0.5	0.2	1.6	27.9	--	--	1.4	0.2	4.5
Showerheads	154.5	762	2,649	44.3	2.8	69.7	343.4	1,693	5,886	93.7	2.9	145.3
Spray sprinkler bodies	--	--	17,245	--	--	--	--	--	38,323	--	--	--
Toilets (water closets)	--	--	1,124	--	--	--	--	--	3,418	--	--	--
Urinals	--	--	254	--	--	--	--	--	676	--	--	--
Water coolers	104.6	--	--	6.6	1.9	19.8	232.5	--	--	11.5	2.0	37.5
<b>Total</b>	<b>650</b>	<b>4,952</b>	<b>33,108</b>	<b>266</b>	<b>12</b>	<b>386</b>	<b>1,253</b>	<b>12,902</b>	<b>77,192</b>	<b>647</b>	<b>11</b>	<b>887</b>

Assuming a compliance date of 2026 for all the recommended standards. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water savings. The total potential water savings are thus smaller than the sum of the individual products.

## Savings estimates for: Texas

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	1.2	3.5	23.9	2.7
Commercial dishwashers	17.9	59.3	497.6	1.3
Commercial fryers	18.4	55.0	337.5	3.4
Commercial ovens	3.7	10.5	11.0	8.3
Commercial steam cookers	5.0	14.8	129.1	1.1
Faucets	62.6	155.6	1,571.1	0.0
Gas fireplaces	3.8	13.8	118.8	0.9
High CRI fluorescent lamps	10.2	4.2	42.1	2.6
Irrigation controllers	123.2	458.4	4,145.8	0.8
Portable electric spas	6.2	12.5	100.1	1.4
Residential ventilating fans	1.0	3.3	30.8	0.0
Showerheads	62.7	155.3	1,565.6	0.0
Spray sprinkler bodies	226.7	581.7	5,331.7	0.9
Toilets (water closets)	14.8	51.9	646.3	0.0
Urinals	3.3	10.3	100.6	0.0
Water coolers	8.2	18.1	182.8	0.0
<b>Total</b>	<b>546</b>	<b>1,437</b>	<b>14,255</b>	<b>-</b>

Assuming a compliance date of 2026 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 2026 and 2050. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total savings. The totals are thus smaller than the sum of the individual products.

## Cumulative savings estimates for: Texas

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Utility bill savings (million 2022\$)
Commercial battery chargers	1,038	--	--	52.7	12.4	171.2	65.5
Commercial dishwashers	1,343	33.0	46.0	1,564.8	16.1	1,975.6	1,095.2
Commercial fryers	349	116.3	--	5,290.9	4.3	6,237.9	1,027.4
Commercial ovens	918	14.7	--	714.4	11.2	934.2	198.3
Commercial steam cookers	581	4.6	12.9	239.7	7.1	342.2	283.2
Faucets	5,421	27.0	136.4	1,501.6	68.3	2,333.6	3,117.1
Gas fireplaces	--	16.8	--	760.5	--	891.4	248.7
High CRI fluorescent lamps	1,520	--	--	91.9	27.6	273.9	127.7
Irrigation controllers	--	--	546.7	--	--	--	8,433.3
Portable electric spas	2,151	--	--	111.8	27.6	358.9	254.9
Residential ventilating fans	504	--	--	25.5	5.9	83.0	59.9
Showerheads	6,868	33.9	117.7	1,888.8	86.6	2,940.6	3,107.0
Spray sprinkler bodies	--	--	766.5	--	--	--	11,679.1
Toilets (water closets)	--	--	71.2	--	--	--	1,106.2
Urinals	--	--	12.8	--	--	--	196.8
Water coolers	4,650	--	--	239.9	58.6	773.3	363.2
<b>Total</b>	<b>25,343</b>	<b>246</b>	<b>1,519</b>	<b>12,483</b>	<b>326</b>	<b>17,316</b>	<b>28,390</b>

Assuming a compliance date of 2026 for all the recommended standards. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water and utility bill savings. The total potential water and utility bill savings are thus smaller than the sum of the individual products.