

## Appliance Standards Awareness Project

### 2023 State Appliance Standards Recommendations

#### Savings estimates for: Oklahoma

	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)
Air purifiers	50.9	--	--	9.2	2.0	12.4	83.3	--	--	9.5	1.8	14.7
Commercial dishwashers	2.5	61	84	3.2	0.1	3.9	5.9	145	202	7.2	0.1	9.0
Commercial fryers	0.9	313	--	14.3	0.04	16.9	2.0	682	--	31.1	0.04	36.7
Commercial ovens	2.5	40	--	2.3	0.1	2.8	5.5	88	--	4.6	0.1	5.8
Commercial steam cookers	1.6	13	35	0.9	0.1	1.1	3.5	28	77	1.7	0.1	2.2
Electric vehicle supply equipment	4.8	--	--	0.9	0.2	1.2	32.1	--	--	3.6	0.7	5.7
Faucets	36.0	234	1,037	17.1	1.4	21.2	65.4	425	1,884	26.7	1.4	34.1
Gas fireplaces	--	40	--	1.8	--	2.1	--	110	--	5.0	--	5.8
High CRI fluorescent lamps	25.8	--	--	4.7	1.0	7.0	6.2	--	--	0.7	0.1	1.2
Portable electric spas	13.8	--	--	2.5	0.6	3.4	23.3	--	--	2.6	0.5	4.1
Residential ventilating fans	4.2	--	--	0.8	0.2	1.0	11.4	--	--	1.3	0.2	2.0
Showerheads	31.1	201	611	14.8	1.2	18.2	56.5	366	1,112	23.0	1.2	29.4
Spray sprinkler bodies	--	--	2,372	--	--	--	--	--	4,312	--	--	--
Toilets (water closets)	--	--	229	--	--	--	--	--	609	--	--	--
Urinals	--	--	43	--	--	--	--	--	94	--	--	--
Water coolers	11.1	--	--	2.0	0.4	3.0	20.1	--	--	2.3	0.4	4.2
<b>Total</b>	<b>185</b>	<b>902</b>	<b>4,412</b>	<b>74</b>	<b>7</b>	<b>94</b>	<b>315</b>	<b>1,844</b>	<b>8,290</b>	<b>119</b>	<b>7</b>	<b>155</b>

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. 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.

## Savings estimates for: Oklahoma

	Potential annual utility bill savings (million 2021\$)		Net present value savings (million 2021\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	5.4	9.2	57.6	5.1	1.5
Commercial dishwashers	1.9	5.0	31.6	9.4	1.2
Commercial fryers	2.7	6.0	29.6	3.0	3.2
Commercial ovens	0.5	1.2	1.7	1.2	7.9
Commercial steam cookers	0.7	1.8	11.6	10.4	1.0
Electric vehicle supply equipment	0.5	3.5	21.7	no cost	0.0
Faucets	20.8	42.4	315.5	no cost	0.0
Gas fireplaces	0.4	1.2	7.5	10.5	1.1
High CRI fluorescent lamps	2.1	0.6	8.2	2.5	2.5
Portable electric spas	1.5	2.6	16.0	5.1	1.4
Residential ventilating fans	0.4	1.3	8.7	no cost	0.0
Showerheads	13.9	28.3	210.9	no cost	0.0
Spray sprinkler bodies	33.3	69.8	471.9	12.0	0.8
Toilets (water closets)	3.2	9.9	84.5	no cost	0.0
Urinals	0.6	1.5	10.8	no cost	0.0
Water coolers	0.9	1.7	13.0	no cost	0.0
<b>Total</b>	<b>89</b>	<b>186</b>	<b>1,301</b>	<b>14.8</b>	<b>-</b>

Assuming a compliance date of 2025 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 2025 and 2040. 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 2040 for the package of recommended standards divided by the present value of the total additional costs. 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.

## Cumulative savings estimates for: Oklahoma

	Potential cumulative savings through 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air purifiers	958	--	--	160.0	44.8	220.6
Commercial dishwashers	56	1.4	1.9	70.9	2.5	86.7
Commercial fryers	20	6.8	--	312.4	0.9	367.5
Commercial ovens	55	0.9	--	48.9	2.5	60.7
Commercial steam cookers	35	0.3	0.8	18.3	1.6	23.6
Electric vehicle supply equipment	182	--	--	27.6	7.6	39.0
Faucets	719	4.7	20.7	331.4	33.5	413.4
Gas fireplaces	--	0.9	--	42.4	--	49.7
High CRI fluorescent lamps	254	--	--	46.5	12.5	69.4
Portable electric spas	264	--	--	44.1	12.3	60.8
Residential ventilating fans	97	--	--	15.6	4.3	21.7
Showerheads	622	4.0	12.2	285.7	28.9	356.4
Spray sprinkler bodies	--	--	47.4	--	--	--
Toilets (water closets)	--	--	5.2	--	--	--
Urinals	--	--	0.9	--	--	--
Water coolers	221	--	--	36.7	10.3	56.8
<b>Total</b>	<b>3,483</b>	<b>19</b>	<b>89</b>	<b>1,441</b>	<b>162</b>	<b>1,826</b>

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. 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.