

Appliance Standards Awareness Project

2023 State Appliance Standards Recommendations

Savings estimates for: **Kansas**

	Potential annual savings in 2030						Potential annual savings in 2040					
	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)
Air purifiers	38.9	--	--	4.9	1.9	11.7	63.7	--	--	5.9	1.8	14.9
Commercial dishwashers	1.8	45	63	2.3	0.1	3.1	4.4	108	150	5.3	0.1	6.9
Commercial fryers	0.7	232	--	10.6	0.03	12.6	1.5	506	--	23.1	0.0	27.3
Commercial ovens	1.9	30	--	1.6	0.1	2.3	4.1	65	--	3.3	0.1	4.6
Commercial steam cookers	1.2	9	26	0.6	0.06	1.0	2.6	21	57	1.2	0.1	1.8
Electric vehicle supply equipment	3.7	--	--	0.5	0.2	1.1	24.5	--	--	2.3	0.7	5.7
Faucets	20.8	205	765	11.9	1.0	17.1	37.8	372	1,390	20.4	1.0	28.6
Gas fireplaces	--	44	--	2.0	--	2.4	--	121	--	5.5	--	6.4
High CRI fluorescent lamps	19.6	--	--	2.4	1.0	7.6	4.7	--	--	0.4	0.1	1.2
Portable electric spas	10.7	--	--	1.3	0.5	3.2	18.0	--	--	1.7	0.5	4.2
Residential ventilating fans	3.2	--	--	0.4	0.2	1.0	8.7	--	--	0.8	0.2	2.0
Showerheads	18.0	176	451	10.2	0.9	14.8	32.7	321	820	17.6	0.9	24.7
Spray sprinkler bodies	--	--	1,001	--	--	--	--	--	1,819	--	--	--
Toilets (water closets)	--	--	169	--	--	--	--	--	450	--	--	--
Urinals	--	--	32	--	--	--	--	--	70	--	--	--
Water coolers	8.8	--	--	1.1	0.4	3.5	16.0	--	--	1.5	0.4	4.3
Total	129	742	2,507	50	6	81	219	1,514	4,756	89	6	133

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: Kansas

	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	4.9	7.7	51.2	5.8	1.3
Commercial dishwashers	1.6	4.2	26.9	10.7	1.0
Commercial fryers	2.3	5.3	28.3	3.6	2.8
Commercial ovens	0.5	1.0	2.3	1.4	6.7
Commercial steam cookers	0.6	1.5	9.8	11.7	0.9
Electric vehicle supply equipment	0.5	2.9	18.1	no cost	0.0
Faucets	16.9	34.1	255.0	no cost	0.0
Gas fireplaces	0.5	1.5	9.4	11.7	1.0
High CRI fluorescent lamps	1.9	0.5	8.1	2.9	2.1
Portable electric spas	1.3	2.2	14.8	6.5	1.0
Residential ventilating fans	0.4	1.0	7.4	no cost	0.0
Showerheads	11.4	22.6	169.8	no cost	0.0
Spray sprinkler bodies	15.6	32.7	223.0	13.4	0.7
Toilets (water closets)	2.6	8.1	69.3	no cost	0.0
Urinals	0.5	1.3	8.9	no cost	0.0
Water coolers	0.9	1.5	11.6	no cost	0.0
Total	62	128	914	17.2	-

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: [Kansas](#)

	Potential cumulative savings through 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air purifiers	733	--	--	77.8	30.2	204.6
Commercial dishwashers	41	1.0	1.4	50.3	1.6	66.5
Commercial fryers	15	5.1	--	230.9	0.6	273.5
Commercial ovens	41	0.7	--	33.9	1.6	47.3
Commercial steam cookers	26	0.2	0.6	12.0	1.0	18.9
Electric vehicle supply equipment	139	--	--	14.0	5.1	36.7
Faucets	416	4.1	15.3	229.6	17.0	333.2
Gas fireplaces	--	1.0	--	46.7	--	54.8
High CRI fluorescent lamps	193	--	--	22.1	9.0	66.2
Portable electric spas	205	--	--	21.8	8.5	57.3
Residential ventilating fans	74	--	--	7.7	2.9	20.3
Showerheads	359	3.5	9.0	197.9	14.7	287.3
Spray sprinkler bodies	--	--	20.0	--	--	--
Toilets (water closets)	--	--	3.9	--	--	--
Urinals	--	--	0.7	--	--	--
Water coolers	175	--	--	18.5	7.2	54.7
Total	2,417	16	51	963	100	1,521

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.