

Appliance Standards Awareness Project

2024 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)
Commercial battery chargers	1.8	--	--	0.1	0.01	0.2	5.1	--	--	0.4	0.1	0.9
Commercial dishwashers	2.5	61	85	2.9	0.02	3.5	7.3	178	248	8.6	0.1	10.7
Commercial fryers	0.7	228	--	10.4	0.005	12.2	1.8	609	--	27.7	0.03	32.6
Commercial ovens	1.8	29	--	1.4	0.01	1.7	4.8	77	--	3.8	0.1	4.9
Commercial steam cookers	1.1	9	25	0.5	0.01	0.6	3.0	24	68	1.3	0.04	1.8
Faucets	8.4	84	312	4.1	0.1	5.3	18.8	185	690	9.7	0.3	13.1
Gas fireplaces	--	54	--	2.5	--	2.9	--	175	--	7.9	--	9.3
High CRI fluorescent lamps	16.8	--	--	0.7	0.1	1.8	5.9	--	--	0.4	0.1	1.0
Irrigation controllers	--	--	445	--	--	--	--	--	1,435	--	--	--
Portable electric spas	4.6	--	--	0.2	0.03	0.5	9.1	--	--	0.6	0.1	1.6
Residential ventilating fans	1.0	--	--	0.04	0.01	0.1	3.1	--	--	0.2	0.05	0.5
Showerheads	10.7	105	268	5.2	0.1	6.7	23.8	233	596	12.2	0.3	16.5
Spray sprinkler bodies	--	--	819	--	--	--	--	--	1,821	--	--	--
Toilets (water closets)	--	--	113	--	--	--	--	--	344	--	--	--
Urinals	--	--	25	--	--	--	--	--	67	--	--	--
Water coolers	10.9	--	--	0.4	0.1	1.1	24.2	--	--	1.7	0.4	4.2
Total	60	570	2,011	28	0.4	37	107	1,481	4,732	75	2	97

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: **Kansas**

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.4	3.0	2.2
Commercial dishwashers	2.0	6.8	57.8	1.1
Commercial fryers	2.2	6.6	44.6	2.9
Commercial ovens	0.4	1.3	3.4	6.9
Commercial steam cookers	0.6	1.7	14.9	1.0
Faucets	6.5	16.2	162.4	0.0
Gas fireplaces	0.6	2.1	17.5	1.1
High CRI fluorescent lamps	1.7	0.6	7.8	2.0
Irrigation controllers	6.5	24.1	219.7	0.8
Portable electric spas	0.6	1.1	9.4	1.1
Residential ventilating fans	0.1	0.4	3.5	0.0
Showerheads	6.3	15.8	158.1	0.0
Spray sprinkler bodies	11.9	30.6	283.6	0.8
Toilets (water closets)	1.6	5.8	72.2	0.0
Urinals	0.4	1.1	11.1	0.0
Water coolers	1.1	2.5	23.8	0.0
Total	41	108	1,062	-

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: [Kansas](#)

	Potential cumulative savings through 2050						Utility bill savings (million 2022\$)
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	
Commercial battery chargers	95	--	--	6.3	1.3	15.4	7.7
Commercial dishwashers	133	3.3	4.6	157.6	1.8	196.1	125.1
Commercial fryers	35	11.6	--	526.4	0.5	619.9	124.0
Commercial ovens	91	1.5	--	72.4	1.2	92.5	24.2
Commercial steam cookers	58	0.5	1.3	24.7	0.8	33.8	32.2
Faucets	375	3.7	13.8	192.0	4.9	256.6	322.0
Gas fireplaces	--	3.2	--	143.7	--	168.5	37.5
High CRI fluorescent lamps	200	--	--	10.7	2.2	28.0	20.2
Irrigation controllers	--	--	26.0	--	--	--	444.0
Portable electric spas	185	--	--	12.0	2.4	29.6	22.4
Residential ventilating fans	56	--	--	3.7	0.8	9.2	6.8
Showerheads	475	4.7	11.9	241.9	6.2	323.5	313.5
Spray sprinkler bodies	--	--	36.4	--	--	--	614.9
Toilets (water closets)	--	--	7.2	--	--	--	123.5
Urinals	--	--	1.3	--	--	--	21.7
Water coolers	483	--	--	31.5	6.3	77.6	47.1
Total	2,186	28	93	1,423	28	1,851	2,130

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.