

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: **Kansas**

	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)
Air compressors	2.3	--	--	0.6	0.2	1.3	6.6	--	--	1.8	0.8	3.7
Air purifiers	14.1	--	--	3.8	1.5	7.9	28.3	--	--	7.7	3.6	15.3
Commercial dishwashers	1.5	35	49	2.0	0.2	2.7	4.3	103	143	5.9	0.6	7.9
Commercial fryers	0.2	132	--	6.1	0.03	7.1	0.6	352	--	16.2	0.1	19.0
Commercial hot-food holding cabinets	1.5	--	--	0.4	0.2	0.9	4.1	--	--	1.1	0.5	2.3
Commercial steam cookers	2.6	14	44	1.3	0.3	2.2	6.9	37	118	3.6	0.9	5.8
Computers and computer monitors	66.4	--	--	17.9	7.2	37.2	83.4	--	--	22.7	10.6	46.0
Faucets	12.6	248	735	14.7	1.4	20.2	28.1	544	1,620	32.4	3.6	44.1
High CRI fluorescent lamps	31.3	--	--	8.4	3.4	17.6	8.9	--	--	2.4	1.1	4.9
Portable air conditioners	3.8	--	--	1.0	0.4	2.1	11.5	--	--	3.1	1.5	6.2
Portable electric spas	1.7	--	--	0.5	0.2	1.0	3.8	--	--	1.0	0.5	2.1
Residential ventilating fans	1.7	--	--	0.5	0.2	1.0	3.9	--	--	1.1	0.5	2.1
Showerheads	8.9	172	350	10.2	1.0	14.1	19.8	381	778	22.8	2.5	31.0
Spray sprinkler bodies	--	--	392	--	--	--	--	--	784	--	--	--
Toilets (water closets)	--	--	196	--	--	--	--	--	613	--	--	--
Uninterruptible power supplies	13.2	--	--	3.6	1.4	7.4	17.9	--	--	4.9	2.3	10.0
Urinals	--	--	26	--	--	--	--	--	69	--	--	--
Water coolers	4.0	--	--	1.1	0.4	2.2	8.9	--	--	2.4	1.1	5.0
Total	166	600	1,792	72	18	125	237	1,417	4,125	129	30	205

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.

	Potential annual utility bill savings (million 2017\$)		Net present value savings (million 2017\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Air compressors	0.2	0.5	2.4	3.2	3.0
Air purifiers	2.0	3.9	18.3	2.6	2.8
Commercial dishwashers	1.1	3.3	20.5	9.6	1.1
Commercial fryers	1.4	3.8	15.2	2.4	3.9
Commercial hot-food holding cabinets	0.2	0.4	2.1	3.2	2.8
Commercial steam cookers	0.9	2.6	16.4	10.6	0.9
Computers and computer monitors	8.0	9.7	44.8	2.2	2.2
Faucets	12.8	31.1	224.8	no cost	0.0
High CRI fluorescent lamps	3.4	1.0	15.4	3.1	2.3
Portable air conditioners	0.5	1.6	7.3	3.2	2.5
Portable electric spas	0.2	0.5	3.9	no cost	0.0
Residential ventilating fans	0.2	0.5	4.0	no cost	0.0
Showerheads	7.2	17.3	125.5	no cost	0.0
Spray sprinkler bodies	4.3	9.9	62.5	7.8	1.1
Toilets (water closets)	2.1	7.7	69.2	no cost	0.0
Uninterruptible power supplies	1.5	1.9	9.5	2.6	2.0
Urinals	0.3	0.9	6.0	no cost	0.0
Water coolers	0.4	0.9	6.8	no cost	0.0
Total	47	98	654	8.3	-

Assuming a compliance date of 2021 for almost 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 2021 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 recommended standards divided by the present value of the total additional costs.

Cumulative savings estimates for: **Kansas**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air compressors	56	--	--	15.5	6.2	31.5
Air purifiers	297	--	--	81.4	32.4	164.5
Commercial dishwashers	36	0.9	1.2	49.3	4.0	66.1
Commercial fryers	6	3.2	--	145.7	0.6	171.4
Commercial hot-food holding cabinets	37	--	--	10.2	4.1	20.8
Commercial steam cookers	62	0.3	1.1	32.2	6.8	52.4
Computers and computer monitors	1,009	--	--	276.3	110.3	564.3
Faucets	281	5.5	16.2	325.8	30.7	445.6
High CRI fluorescent lamps	309	--	--	83.9	34.0	176.4
Portable air conditioners	101	--	--	27.7	11.0	55.7
Portable electric spas	38	--	--	10.5	4.2	21.3
Residential ventilating fans	39	--	--	10.6	4.2	21.4
Showerheads	198	3.8	7.8	228.1	21.7	312.5
Spray sprinkler bodies	--	--	8.2	--	--	--
Toilets (water closets)	--	--	4.9	--	--	--
Uninterruptible power supplies	214	--	--	58.5	23.3	119.9
Urinals	--	--	0.6	--	--	--
Water coolers	89	--	--	24.4	9.7	49.8
Total	2,772	14	40	1,380	303	2,274

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.