

## Appliance Standards Awareness Project

### 2025 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 <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thousand metric tons)
Commercial battery chargers	1.0	--	--	0.04	0.01	0.1	3.5	--	--	0.3	0.1	0.6
Commercial dishwashers	2.7	35	49	1.7	0.02	2.2	7.9	101	140	5.1	0.1	6.8
Commercial fryers	0.2	113	--	5.1	0.001	6.0	0.6	389	--	17.7	0.01	20.7
Commercial ovens	1.6	12	--	0.6	0.01	0.8	5.5	40	--	2.2	0.1	3.1
Commercial steam cookers	0.5	5	13	0.2	0.004	0.3	1.8	17	44	0.9	0.03	1.2
Faucets	10.6	89	408	4.4	0.1	5.9	30.2	252	1,165	13.7	0.5	18.9
Gas fireplaces	--	40	--	1.8	--	2.1	--	156	--	7.0	--	8.2
High CRI fluorescent lamps	11.8	--	--	0.5	0.1	1.3	5.6	--	--	0.4	0.1	1.0
Portable electric spas	8.6	--	--	0.4	0.1	1.0	21.6	--	--	1.6	0.3	4.0
Residential ventilating fans	0.8	--	--	0.03	0.01	0.1	3.1	--	--	0.2	0.05	0.6
Server power supplies	29.1	--	--	1.2	0.2	3.2	41.5	--	--	3.1	0.6	7.6
Showerheads	7.9	66	208	3.3	0.1	4.4	22.5	188	595	10.2	0.3	14.1
Spray sprinkler bodies	--	--	635	--	--	--	--	--	1,815	--	--	--
Toilets (water closets)	--	--	102	--	--	--	--	--	380	--	--	--
Urinals	--	--	19	--	--	--	--	--	65	--	--	--
Water coolers	8.7	--	--	0.4	0.1	1.0	24.8	--	--	1.8	0.4	4.6
<b>Total</b>	<b>83</b>	<b>360</b>	<b>1,434</b>	<b>20</b>	<b>1</b>	<b>28</b>	<b>169</b>	<b>1,143</b>	<b>4,203</b>	<b>64</b>	<b>3</b>	<b>91</b>

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, 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 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.3	1.8	3.6
Commercial dishwashers	1.4	4.6	40.8	0.9
Commercial fryers	1.0	4.0	27.4	2.7
Commercial ovens	0.3	1.0	3.4	5.8
Commercial steam cookers	0.3	1.2	10.7	0.7
Faucets	9.3	30.1	296.2	0.0
Gas fireplaces	0.4	1.8	16.0	1.1
High CRI fluorescent lamps	1.3	0.6	7.5	1.7
Portable electric spas	1.1	3.0	26.1	0.7
Residential ventilating fans	0.1	0.4	4.1	0.0
Server power supplies	3.1	4.5	37.7	0.9
Showerheads	5.3	17.0	167.2	0.0
Spray sprinkler bodies	10.9	35.7	327.7	0.7
Toilets (water closets)	1.7	7.5	93.8	0.0
Urinals	0.3	1.3	12.2	0.0
Water coolers	0.9	2.7	25.5	0.0
<b>Total</b>	<b>38</b>	<b>116</b>	<b>1,098</b>	<b>-</b>

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, 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 2050						
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	65	--	--	4.6	0.9	11.2	5.4
Commercial dishwashers	149	1.9	2.7	97.0	2.1	126.5	87.6
Commercial fryers	10	7.0	--	318.1	0.1	372.2	71.5
Commercial ovens	100	0.7	--	39.6	1.4	55.2	17.6
Commercial steam cookers	32	0.3	0.8	16.0	0.4	21.6	22.1
Faucets	574	4.8	22.1	257.4	8.0	351.8	572.3
Gas fireplaces	--	2.9	--	129.2	--	150.8	33.1
High CRI fluorescent lamps	165	--	--	9.6	1.9	24.5	17.8
Portable electric spas	423	--	--	29.3	5.8	71.8	56.2
Residential ventilating fans	57	--	--	4.1	0.8	10.0	7.6
Server power supplies	893	--	--	59.9	11.9	148.0	92.8
Showerheads	428	3.6	11.3	191.9	5.9	262.3	323.1
Spray sprinkler bodies	--	--	34.5	--	--	--	686.0
Toilets (water closets)	--	--	7.8	--	--	--	157.2
Urinals	--	--	1.2	--	--	--	23.2
Water coolers	472	--	--	32.9	6.6	80.6	49.0
<b>Total</b>	<b>3,367</b>	<b>21</b>	<b>80</b>	<b>1,190</b>	<b>46</b>	<b>1,687</b>	<b>2,222</b>

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.