

Appliance Standards Awareness Project

2023 State Appliance Standards Recommendations

Savings estimates for: **Kentucky**

	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	59.6	--	--	7.1	20.0	24.3	97.5	--	--	5.0	18.5	30.6
Commercial dishwashers	2.8	69	96	3.5	0.9	4.9	6.7	165	230	7.8	1.3	10.9
Commercial fryers	1.1	356	--	16.2	0.4	19.4	2.3	776	--	35.3	0.4	42.0
Commercial ovens	2.9	46	--	2.4	1.0	3.7	6.2	100	--	4.9	1.2	7.3
Commercial steam cookers	1.8	14	40	0.9	0.6	1.6	4.0	32	88	1.6	0.8	2.9
Electric vehicle supply equipment	5.7	--	--	0.7	1.9	2.3	37.6	--	--	1.9	7.1	11.8
Faucets	57.4	171	1,172	14.6	19.2	32.5	104.5	309	2,127	19.3	19.8	49.2
Gas fireplaces	--	66	--	3.0	--	3.5	--	180	--	8.1	--	9.6
High CRI fluorescent lamps	23.4	--	--	2.8	7.8	10.3	6.1	--	--	0.3	1.2	1.9
Portable electric spas	16.8	--	--	2.0	5.6	6.8	28.2	--	--	1.4	5.4	8.9
Residential ventilating fans	4.9	--	--	0.6	1.6	2.0	13.4	--	--	0.7	2.5	4.2
Showerheads	49.7	146	691	12.5	16.6	28.0	90.3	266	1,256	16.6	17.1	42.5
Spray sprinkler bodies	--	--	900	--	--	--	--	--	1,637	--	--	--
Toilets (water closets)	--	--	259	--	--	--	--	--	689	--	--	--
Urinals	--	--	49	--	--	--	--	--	107	--	--	--
Water coolers	10.7	--	--	1.3	3.6	4.7	19.4	--	--	1.0	3.7	6.2
Total	237	868	3,207	67	79	144	416	1,828	6,134	104	79	228

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: [Kentucky](#)

	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	6.2	10.1	64.3	4.9	1.5
Commercial dishwashers	2.3	6.0	38.5	10.0	1.1
Commercial fryers	3.7	8.3	44.2	3.7	2.7
Commercial ovens	0.7	1.6	3.6	1.4	6.6
Commercial steam cookers	0.9	2.1	13.8	10.8	0.9
Electric vehicle supply equipment	0.6	3.9	24.1	no cost	0.0
Faucets	24.6	49.4	370.1	no cost	0.0
Gas fireplaces	0.8	2.4	15.2	12.7	1.0
High CRI fluorescent lamps	2.2	0.6	8.9	2.7	2.2
Portable electric spas	1.7	2.9	19.0	5.4	1.2
Residential ventilating fans	0.5	1.4	9.7	no cost	0.0
Showerheads	16.7	33.2	250.1	no cost	0.0
Spray sprinkler bodies	12.6	26.5	179.2	12.0	0.8
Toilets (water closets)	3.6	11.1	95.6	no cost	0.0
Urinals	0.7	1.7	12.3	no cost	0.0
Water coolers	1.0	1.7	13.8	no cost	0.0
Total	79	163	1,162	16.7	-

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: Kentucky

	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	1,121	--	--	92.5	274.4	390.2
Commercial dishwashers	63	1.6	2.2	75.4	15.0	106.1
Commercial fryers	23	7.8	--	353.6	5.6	420.9
Commercial ovens	62	1.0	--	50.3	14.9	76.5
Commercial steam cookers	40	0.3	0.9	17.4	9.5	31.5
Electric vehicle supply equipment	213	--	--	14.8	47.4	70.9
Faucets	1,149	3.4	23.4	247.8	278.8	579.1
Gas fireplaces	--	1.5	--	69.3	--	81.2
High CRI fluorescent lamps	234	--	--	22.9	64.3	94.5
Portable electric spas	320	--	--	26.4	78.5	111.7
Residential ventilating fans	114	--	--	8.8	26.8	38.9
Showerheads	993	2.9	13.8	213.4	241.0	499.5
Spray sprinkler bodies	--	--	18.0	--	--	--
Toilets (water closets)	--	--	5.9	--	--	--
Urinals	--	--	1.1	--	--	--
Water coolers	214	--	--	17.4	51.8	80.2
Total	4,546	18	65	1,210	1,108	2,581

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.