

Appliance Standards Awareness Project

2024 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)
Commercial battery chargers	3.6	--	--	0.3	0.6	1.1	10.9	--	--	0.4	1.2	2.2
Commercial dishwashers	3.8	93	130	4.5	0.6	6.1	11.1	273	381	12.8	1.2	16.8
Commercial fryers	1.0	350	--	16.0	0.2	18.9	2.8	934	--	42.4	0.3	50.2
Commercial ovens	2.8	44	--	2.2	0.4	3.2	7.4	118	--	5.6	0.8	7.8
Commercial steam cookers	1.7	14	39	0.8	0.3	1.3	4.7	37	104	1.9	0.5	2.9
Faucets	23.3	70	477	5.0	3.7	10.5	51.7	154	1,054	8.8	5.6	18.7
Gas fireplaces	--	91	--	4.1	--	4.8	--	293	--	13.3	--	15.6
High CRI fluorescent lamps	16.3	--	--	1.3	2.6	4.8	6.5	--	--	0.2	0.7	1.3
Irrigation controllers	--	--	400	--	--	--	--	--	1,290	--	--	--
Portable electric spas	18.3	--	--	1.5	2.9	5.3	35.9	--	--	1.3	3.9	7.3
Residential ventilating fans	1.5	--	--	0.1	0.2	0.4	4.8	--	--	0.2	0.5	1.0
Showerheads	29.5	87	410	6.3	4.6	13.2	65.5	193	910	11.1	7.0	23.5
Spray sprinkler bodies	--	--	737	--	--	--	--	--	1,637	--	--	--
Toilets (water closets)	--	--	173	--	--	--	--	--	527	--	--	--
Urinals	--	--	39	--	--	--	--	--	103	--	--	--
Water coolers	13.2	--	--	1.1	2.1	3.9	29.4	--	--	1.1	3.2	6.0
Total	115	749	2,330	43	18	73	231	2,002	5,523	99	25	153

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: Kentucky

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.2	0.6	4.4	2.5
Commercial dishwashers	3.0	9.8	82.7	1.2
Commercial fryers	3.5	10.3	70.0	2.8
Commercial ovens	0.7	2.0	5.1	7.0
Commercial steam cookers	0.8	2.4	21.1	1.0
Faucets	9.6	24.0	241.2	0.0
Gas fireplaces	1.2	4.2	35.6	1.0
High CRI fluorescent lamps	1.5	0.7	6.8	2.4
Irrigation controllers	5.3	19.6	177.1	0.8
Portable electric spas	1.9	4.0	32.9	1.3
Residential ventilating fans	0.2	0.5	4.9	0.0
Showerheads	9.5	23.9	239.9	0.0
Spray sprinkler bodies	9.7	24.8	227.7	0.9
Toilets (water closets)	2.3	8.0	99.6	0.0
Urinals	0.5	1.6	15.3	0.0
Water coolers	1.2	2.8	27.8	0.0
Total	50	132	1,267	-

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: Kentucky

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	Utility bill savings (million 2022\$)
Commercial battery chargers	201	--	--	8.4	23.0	42.5	11.5
Commercial dishwashers	205	5.0	7.0	236.8	23.5	310.9	180.3
Commercial fryers	53	17.7	--	806.2	6.1	953.6	192.9
Commercial ovens	140	2.2	--	107.7	16.1	149.1	36.9
Commercial steam cookers	89	0.7	2.0	35.8	10.2	56.4	46.0
Faucets	1,035	3.1	21.1	184.1	120.5	385.9	478.4
Gas fireplaces	--	5.3	--	240.8	--	282.2	74.9
High CRI fluorescent lamps	201	--	--	11.6	28.7	50.0	19.2
Irrigation controllers	--	--	23.4	--	--	--	360.2
Portable electric spas	732	--	--	32.1	86.1	158.4	80.5
Residential ventilating fans	86	--	--	3.6	9.8	18.2	9.5
Showerheads	1,311	3.9	18.2	231.2	152.6	486.4	475.8
Spray sprinkler bodies	--	--	32.7	--	--	--	498.8
Toilets (water closets)	--	--	11.0	--	--	--	170.5
Urinals	--	--	2.0	--	--	--	30.0
Water coolers	588	--	--	25.4	68.4	126.4	55.1
Total	4,640	38	109	1,924	545	3,020	2,594

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.