

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: **Kentucky**

	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	5.6	--	--	1.0	1.5	3.3	16.1	--	--	2.6	7.6	7.9
Air purifiers	21.8	--	--	3.8	5.9	11.4	43.5	--	--	7.0	20.5	20.1
Commercial dishwashers	2.3	53	74	2.8	0.6	4.2	6.6	157	219	8.2	3.1	11.6
Commercial fryers	0.4	202	--	9.2	0.1	10.9	1.0	538	--	24.6	0.5	29.0
Commercial hot-food holding cabinets	2.4	--	--	0.4	0.6	1.4	6.3	--	--	1.0	3.0	3.1
Commercial steam cookers	4.0	21	67	1.6	1.1	3.4	10.6	56	180	4.3	5.0	8.2
Computers and computer monitors	81.1	--	--	14.0	22.1	44.9	101.9	--	--	16.4	48.0	48.4
Faucets	59.9	166	1,115	17.9	16.3	40.3	133.1	359	2,456	37.8	62.8	80.4
High CRI fluorescent lamps	37.9	--	--	6.6	10.3	22.0	11.7	--	--	1.9	5.5	5.6
Portable air conditioners	8.3	--	--	1.4	2.3	4.4	25.0	--	--	4.0	11.8	11.5
Portable electric spas	2.7	--	--	0.5	0.7	1.4	6.0	--	--	1.0	2.8	2.8
Residential ventilating fans	2.7	--	--	0.5	0.7	1.4	5.9	--	--	1.0	2.8	2.7
Showerheads	42.3	112	531	12.4	11.5	28.2	94.1	249	1,179	26.5	44.4	56.6
Spray sprinkler bodies	--	--	358	--	--	--	--	--	715	--	--	--
Toilets (water closets)	--	--	297	--	--	--	--	--	930	--	--	--
Uninterruptible power supplies	13.8	--	--	2.4	3.8	8.0	18.7	--	--	3.0	8.8	9.1
Urinals	--	--	40	--	--	--	--	--	106	--	--	--
Water coolers	4.9	--	--	0.8	1.3	2.9	10.9	--	--	1.8	5.1	5.4
Total	290	554	2,482	75	79	188	491	1,360	5,785	141	232	302

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	0.3	0.8	3.2	2.2	4.3
Air purifiers	2.2	4.6	17.0	2.0	3.7
Commercial dishwashers	1.6	5.1	31.0	9.5	1.2
Commercial fryers	2.0	5.3	19.9	2.2	4.2
Commercial hot-food holding cabinets	0.2	0.6	2.6	2.8	3.1
Commercial steam cookers	1.3	3.9	24.8	10.5	1.0
Computers and computer monitors	7.9	10.0	37.7	1.9	2.6
Faucets	21.1	51.3	371.1	no cost	0.0
High CRI fluorescent lamps	3.5	1.1	14.5	2.6	2.7
Portable air conditioners	0.9	2.6	10.3	2.4	3.4
Portable electric spas	0.3	0.6	4.6	no cost	0.0
Residential ventilating fans	0.3	0.6	4.6	no cost	0.0
Showerheads	11.9	28.8	208.5	no cost	0.0
Spray sprinkler bodies	4.2	9.6	61.1	8.3	1.0
Toilets (water closets)	3.5	12.5	111.5	no cost	0.0
Uninterruptible power supplies	1.3	1.7	7.7	2.2	2.3
Urinals	0.5	1.4	9.8	no cost	0.0
Water coolers	0.4	1.0	7.3	no cost	0.0
Total	63	142	948	8.9	-

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: **Kentucky**

	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	137	--	--	23.4	57.8	71.9
Air purifiers	457	--	--	78.8	190.0	230.7
Commercial dishwashers	56	1.3	1.8	69.6	23.5	99.3
Commercial fryers	9	4.8	--	221.9	3.7	261.7
Commercial hot-food holding cabinets	57	--	--	9.8	24.0	30.0
Commercial steam cookers	95	0.5	1.6	39.4	40.2	77.1
Computers and computer monitors	1,233	--	--	213.5	496.6	642.5
Faucets	1,331	3.6	24.6	394.0	557.5	862.9
High CRI fluorescent lamps	380	--	--	67.2	141.8	208.4
Portable air conditioners	219	--	--	37.5	93.1	109.5
Portable electric spas	60	--	--	10.3	25.1	30.1
Residential ventilating fans	59	--	--	10.2	24.9	29.9
Showerheads	941	2.5	11.8	275.3	394.0	606.1
Spray sprinkler bodies	--	--	7.5	--	--	--
Toilets (water closets)	--	--	7.4	--	--	--
Uninterruptible power supplies	224	--	--	38.7	90.3	118.7
Urinals	--	--	1.0	--	--	--
Water coolers	109	--	--	18.8	45.6	57.6
Total	5,367	13	56	1,508	2,208	3,436

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