

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: [Missouri](#)

	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	2.7	--	--	0.7	2.2	1.8	7.8	--	--	2.1	8.9	5.2
Air purifiers	30.1	--	--	8.2	24.3	20.3	60.1	--	--	16.6	68.7	39.6
Commercial dishwashers	3.1	73	102	4.2	2.5	5.9	9.1	216	301	12.4	10.4	17.6
Commercial fryers	0.5	277	--	12.7	0.4	15.0	1.3	738	--	34.0	1.5	40.1
Commercial hot-food holding cabinets	3.3	--	--	0.9	2.6	2.2	8.7	--	--	2.4	9.9	5.8
Commercial steam cookers	5.4	29	93	2.8	4.4	5.1	14.5	77	247	7.5	16.6	13.9
Computers and computer monitors	133.1	--	--	36.2	107.5	88.8	167.2	--	--	46.2	191.0	111.4
Faucets	55.1	369	1,533	31.8	44.5	56.8	122.3	806	3,377	70.5	139.7	123.4
High CRI fluorescent lamps	60.4	--	--	16.4	48.8	40.0	17.7	--	--	4.9	20.2	11.8
Portable air conditioners	6.8	--	--	1.9	5.5	4.6	20.5	--	--	5.7	23.5	13.5
Portable electric spas	6.0	--	--	1.6	4.8	4.0	13.3	--	--	3.7	15.2	8.8
Residential ventilating fans	3.7	--	--	1.0	3.0	2.5	8.2	--	--	2.3	9.4	5.4
Showerheads	38.9	253	730	22.1	31.4	39.7	86.5	563	1,621	49.5	98.8	86.8
Spray sprinkler bodies	--	--	1,591	--	--	--	--	--	3,182	--	--	--
Toilets (water closets)	--	--	409	--	--	--	--	--	1,279	--	--	--
Uninterruptible power supplies	25.6	--	--	7.0	20.7	17.0	34.7	--	--	9.6	39.6	23.3
Urinals	--	--	55	--	--	--	--	--	146	--	--	--
Water coolers	7.7	--	--	2.1	6.2	5.1	17.0	--	--	4.7	19.5	11.5
Total	382	1,001	4,512	150	309	309	589	2,401	10,152	272	673	518

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	2.9	3.1
Air purifiers	3.6	6.9	29.2	2.2	3.2
Commercial dishwashers	2.2	7.0	42.6	9.5	1.2
Commercial fryers	3.0	8.2	33.4	2.5	3.8
Commercial hot-food holding cabinets	0.3	0.8	3.5	2.8	3.1
Commercial steam cookers	1.8	5.2	33.1	10.3	1.0
Computers and computer monitors	13.8	16.6	67.1	1.9	2.4
Faucets	28.1	67.6	490.1	no cost	0.0
High CRI fluorescent lamps	5.7	1.7	23.8	2.7	2.6
Portable air conditioners	0.8	2.4	10.1	2.7	2.9
Portable electric spas	0.7	1.5	11.5	no cost	0.0
Residential ventilating fans	0.4	0.9	7.1	no cost	0.0
Showerheads	15.9	38.0	276.7	no cost	0.0
Spray sprinkler bodies	17.4	40.2	253.7	7.8	1.1
Toilets (water closets)	4.5	16.1	144.3	no cost	0.0
Uninterruptible power supplies	2.4	3.1	14.2	2.2	2.3
Urinals	0.6	1.8	12.7	no cost	0.0
Water coolers	0.7	1.5	11.2	no cost	0.0
Total	102	220	1,467	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: Missouri

	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	66	--	--	18.6	70.9	44.7
Air purifiers	631	--	--	177.9	671.2	425.5
Commercial dishwashers	76	1.8	2.5	103.9	82.0	147.9
Commercial fryers	12	6.6	--	305.9	12.9	361.1
Commercial hot-food holding cabinets	78	--	--	22.0	83.8	52.9
Commercial steam cookers	131	0.7	2.2	68.5	140.4	125.6
Computers and computer monitors	2,024	--	--	569.1	2,109.4	1,369.6
Faucets	1,223	8.1	33.9	713.8	1,306.2	1,254.9
High CRI fluorescent lamps	600	--	--	167.4	583.3	407.8
Portable air conditioners	180	--	--	50.8	195.2	121.2
Portable electric spas	133	--	--	37.5	141.9	89.6
Residential ventilating fans	82	--	--	23.1	87.6	55.3
Showerheads	865	5.6	16.2	500.1	923.2	881.8
Spray sprinkler bodies	--	--	33.4	--	--	--
Toilets (water closets)	--	--	10.2	--	--	--
Uninterruptible power supplies	414	--	--	116.6	433.4	280.9
Urinals	--	--	1.3	--	--	--
Water coolers	170	--	--	48.0	181.9	115.6
Total	6,685	23	100	2,923	7,023	5,735

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