

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: West Virginia

	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	2.6	--	--	0.6	2.0	1.6	7.6	--	--	2.1	7.2	4.8
Air purifiers	9.4	--	--	2.2	7.2	5.8	18.7	--	--	5.2	17.6	11.7
Commercial dishwashers	0.9	22	30	1.2	0.7	1.7	2.7	64	89	3.7	2.5	5.1
Commercial fryers	0.1	82	--	3.8	0.1	4.5	0.4	219	--	10.1	0.4	11.9
Commercial hot-food holding cabinets	1.0	--	--	0.2	0.7	0.6	2.6	--	--	0.7	2.4	1.6
Commercial steam cookers	1.6	9	27	0.8	1.2	1.4	4.3	23	73	2.2	4.1	3.9
Computers and computer monitors	41.0	--	--	9.7	31.5	25.2	51.5	--	--	14.2	48.4	32.2
Faucets	24.0	75	468	9.1	18.5	18.8	53.4	164	1,031	22.2	50.1	42.1
High CRI fluorescent lamps	16.2	--	--	3.8	12.5	9.9	5.0	--	--	1.4	4.7	3.1
Portable air conditioners	5.3	--	--	1.3	4.1	3.3	15.9	--	--	4.4	14.9	9.9
Portable electric spas	1.3	--	--	0.3	1.0	0.8	2.9	--	--	0.8	2.8	1.8
Residential ventilating fans	1.2	--	--	0.3	0.9	0.7	2.6	--	--	0.7	2.4	1.6
Showerheads	17.0	51	223	6.4	13.1	13.2	37.8	114	495	15.6	35.4	29.6
Spray sprinkler bodies	--	--	339	--	--	--	--	--	678	--	--	--
Toilets (water closets)	--	--	124	--	--	--	--	--	389	--	--	--
Uninterruptible power supplies	7.8	--	--	1.9	6.0	4.8	10.6	--	--	2.9	10.0	6.6
Urinals	--	--	16	--	--	--	--	--	43	--	--	--
Water coolers	1.9	--	--	0.5	1.5	1.2	4.3	--	--	1.2	4.0	2.7
Total	131	239	1,228	42	101	93	220	584	2,799	87	207	169

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	2.3	2.8	3.3
Air purifiers	1.3	2.5	11.8	2.6	2.9
Commercial dishwashers	0.7	2.2	13.3	9.9	1.1
Commercial fryers	0.9	2.4	9.5	2.4	3.9
Commercial hot-food holding cabinets	0.1	0.3	1.3	3.2	2.8
Commercial steam cookers	0.6	1.7	10.6	11.0	0.9
Computers and computer monitors	4.8	6.0	27.3	2.2	2.2
Faucets	9.4	22.7	164.7	no cost	0.0
High CRI fluorescent lamps	1.7	0.6	7.9	3.0	2.4
Portable air conditioners	0.7	2.1	9.9	3.2	2.6
Portable electric spas	0.2	0.4	3.0	no cost	0.0
Residential ventilating fans	0.2	0.3	2.6	no cost	0.0
Showerheads	5.4	12.9	93.8	no cost	0.0
Spray sprinkler bodies	3.9	9.1	57.9	8.3	1.0
Toilets (water closets)	1.4	5.2	46.7	no cost	0.0
Uninterruptible power supplies	0.8	1.1	5.5	2.5	2.1
Urinals	0.2	0.6	4.0	no cost	0.0
Water coolers	0.2	0.4	3.2	no cost	0.0
Total	33	71	475	8.8	-

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: West Virginia

	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	65	--	--	17.5	59.4	40.5
Air purifiers	197	--	--	52.8	178.9	122.7
Commercial dishwashers	23	0.5	0.7	30.6	20.7	42.7
Commercial fryers	4	2.0	--	90.8	3.3	107.0
Commercial hot-food holding cabinets	23	--	--	6.2	21.2	14.4
Commercial steam cookers	39	0.2	0.7	19.9	35.5	35.1
Computers and computer monitors	624	--	--	165.9	561.1	388.3
Faucets	534	1.6	10.3	218.5	486.7	420.6
High CRI fluorescent lamps	162	--	--	42.0	140.6	100.7
Portable air conditioners	139	--	--	37.6	127.8	86.7
Portable electric spas	29	--	--	7.9	26.7	18.3
Residential ventilating fans	26	--	--	6.9	23.3	15.9
Showerheads	378	1.1	5.0	153.1	344.0	295.8
Spray sprinkler bodies	--	--	7.1	--	--	--
Toilets (water closets)	--	--	3.1	--	--	--
Uninterruptible power supplies	127	--	--	33.8	114.4	78.9
Urinals	--	--	0.4	--	--	--
Water coolers	43	--	--	11.5	38.8	26.5
Total	2,411	6	27	895	2,182	1,794

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