

Appliance Standards Awareness Project

2023 State Appliance Standards Recommendations

Savings estimates for: West Virginia

	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	25.0	--	--	2.2	6.9	9.7	41.0	--	--	3.0	7.8	14.7
Commercial dishwashers	1.1	27	38	1.3	0.3	1.9	2.7	66	92	3.2	0.5	4.5
Commercial fryers	0.4	142	--	6.5	0.1	7.7	0.9	309	--	14.1	0.2	16.8
Commercial ovens	1.1	18	--	0.9	0.3	1.5	2.5	40	--	2.0	0.5	3.0
Commercial steam cookers	0.7	6	16	0.3	0.2	0.6	1.6	13	35	0.7	0.3	1.2
Electric vehicle supply equipment	2.4	--	--	0.2	0.7	0.9	15.8	--	--	1.2	3.0	5.7
Faucets	24.3	64	476	5.1	6.6	12.8	44.2	116	865	8.5	8.4	22.0
Gas fireplaces	--	36	--	1.7	--	1.9	--	99	--	4.5	--	5.3
High CRI fluorescent lamps	9.7	--	--	0.9	2.6	4.1	2.5	--	--	0.2	0.5	0.9
Portable electric spas	8.0	--	--	0.7	2.2	3.1	13.4	--	--	1.0	2.6	4.8
Residential ventilating fans	2.1	--	--	0.2	0.6	0.8	5.6	--	--	0.4	1.1	2.0
Showerheads	21.0	55	281	4.4	5.7	11.0	38.2	100	510	7.4	7.3	19.0
Spray sprinkler bodies	--	--	891	--	--	--	--	--	1,620	--	--	--
Toilets (water closets)	--	--	105	--	--	--	--	--	279	--	--	--
Urinals	--	--	19	--	--	--	--	--	43	--	--	--
Water coolers	4.1	--	--	0.4	1.1	1.8	7.5	--	--	0.6	1.4	2.7
Total	100	349	1,826	25	27	58	176	742	3,443	47	33	103

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: West Virginia

	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	3.0	4.9	32.2	5.7	1.2
Commercial dishwashers	0.9	2.3	14.9	9.8	1.1
Commercial fryers	1.3	3.0	15.7	3.4	2.9
Commercial ovens	0.3	0.6	1.2	1.4	6.9
Commercial steam cookers	0.3	0.8	5.4	10.7	1.0
Electric vehicle supply equipment	0.3	1.9	11.6	no cost	0.0
Faucets	10.3	20.6	154.7	no cost	0.0
Gas fireplaces	0.4	1.1	7.2	11.0	1.1
High CRI fluorescent lamps	0.9	0.3	3.8	2.7	2.2
Portable electric spas	1.0	1.6	10.9	6.8	0.9
Residential ventilating fans	0.2	0.7	4.7	no cost	0.0
Showerheads	7.1	13.9	105.3	no cost	0.0
Spray sprinkler bodies	12.5	26.2	177.3	12.0	0.8
Toilets (water closets)	1.5	4.5	38.7	no cost	0.0
Urinals	0.3	0.7	4.9	no cost	0.0
Water coolers	0.4	0.7	5.2	no cost	0.0
Total	41	84	594	15.9	-

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: West Virginia

	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	471	--	--	38.1	105.7	173.5
Commercial dishwashers	25	0.6	0.9	30.1	5.5	42.6
Commercial fryers	9	3.1	--	140.8	2.0	167.7
Commercial ovens	25	0.4	--	20.1	5.5	30.8
Commercial steam cookers	16	0.1	0.4	7.0	3.5	12.8
Electric vehicle supply equipment	90	--	--	6.9	18.6	32.6
Faucets	486	1.3	9.5	97.1	108.3	246.7
Gas fireplaces	--	0.8	--	38.3	--	44.9
High CRI fluorescent lamps	97	--	--	8.3	24.3	40.4
Portable electric spas	152	--	--	12.4	34.4	56.3
Residential ventilating fans	48	--	--	3.8	10.4	17.5
Showerheads	420	1.1	5.6	83.6	93.6	212.9
Spray sprinkler bodies	--	--	17.8	--	--	--
Toilets (water closets)	--	--	2.4	--	--	--
Urinals	--	--	0.4	--	--	--
Water coolers	82	--	--	6.6	18.3	32.0
Total	1,920	7	37	493	430	1,111

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.