

Appliance Standards Awareness Project

2024 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)
Commercial battery chargers	1.7	--	--	0.1	0.3	0.6	5.2	--	--	0.3	0.8	1.6
Commercial dishwashers	1.5	37	52	1.8	0.3	2.5	4.4	108	151	5.2	0.7	7.1
Commercial fryers	0.4	139	--	6.3	0.1	7.5	1.1	370	--	16.8	0.2	20.0
Commercial ovens	1.1	18	--	0.9	0.2	1.3	2.9	47	--	2.3	0.4	3.4
Commercial steam cookers	0.7	6	15	0.3	0.1	0.5	1.8	15	41	0.8	0.3	1.3
Faucets	9.7	26	192	2.0	1.7	4.8	21.6	57	424	4.0	3.3	9.5
Gas fireplaces	--	30	--	1.3	--	1.6	--	96	--	4.3	--	5.1
High CRI fluorescent lamps	6.6	--	--	0.6	1.2	2.4	2.6	--	--	0.2	0.4	0.8
Irrigation controllers	--	--	400	--	--	--	--	--	1,289	--	--	--
Portable electric spas	4.4	--	--	0.4	0.8	1.6	8.6	--	--	0.6	1.3	2.6
Residential ventilating fans	0.6	--	--	0.1	0.1	0.2	1.9	--	--	0.1	0.3	0.6
Showerheads	12.3	32	165	2.5	2.2	6.1	27.4	72	366	5.0	4.2	12.0
Spray sprinkler bodies	--	--	736	--	--	--	--	--	1,635	--	--	--
Toilets (water closets)	--	--	69	--	--	--	--	--	211	--	--	--
Urinals	--	--	15	--	--	--	--	--	41	--	--	--
Water coolers	5.1	--	--	0.4	0.9	1.8	11.3	--	--	0.7	1.7	3.4
Total	44	287	1,570	17	8	31	89	764	3,675	40	14	67

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: West Virginia

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.3	2.1	2.2
Commercial dishwashers	1.1	3.7	31.2	1.3
Commercial fryers	1.2	3.6	23.2	3.2
Commercial ovens	0.2	0.7	1.3	7.5
Commercial steam cookers	0.3	0.9	8.1	1.1
Faucets	3.9	9.7	98.1	0.0
Gas fireplaces	0.3	1.1	9.5	1.1
High CRI fluorescent lamps	0.6	0.3	2.7	2.4
Irrigation controllers	5.3	19.6	176.9	0.8
Portable electric spas	0.5	1.0	8.9	1.0
Residential ventilating fans	0.1	0.2	2.2	0.0
Showerheads	3.9	9.7	97.8	0.0
Spray sprinkler bodies	9.7	24.8	227.5	0.9
Toilets (water closets)	0.9	3.2	39.9	0.0
Urinals	0.2	0.6	6.1	0.0
Water coolers	0.4	1.0	9.9	0.0
Total	28	73	721	-

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: West Virginia

	Potential cumulative savings through 2050						Utility bill savings (million 2022\$)
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	
Commercial battery chargers	95	--	--	6.3	14.4	28.7	5.3
Commercial dishwashers	81	2.0	2.8	95.8	12.3	130.4	68.4
Commercial fryers	21	7.0	--	319.9	3.2	379.7	67.5
Commercial ovens	55	0.9	--	44.0	8.4	64.0	13.2
Commercial steam cookers	35	0.3	0.8	15.0	5.3	25.4	17.6
Faucets	433	1.1	8.5	80.7	65.6	191.3	194.4
Gas fireplaces	--	1.7	--	78.6	--	92.1	20.3
High CRI fluorescent lamps	82	--	--	5.8	13.4	25.7	7.6
Irrigation controllers	--	--	23.3	--	--	--	359.8
Portable electric spas	175	--	--	11.7	26.7	52.9	21.0
Residential ventilating fans	35	--	--	2.3	5.3	10.6	4.2
Showerheads	548	1.4	7.3	101.4	83.1	241.4	194.0
Spray sprinkler bodies	--	--	32.7	--	--	--	498.3
Toilets (water closets)	--	--	4.4	--	--	--	68.3
Urinals	--	--	0.8	--	--	--	11.9
Water coolers	225	--	--	15.0	34.1	67.9	19.7
Total	1,785	14	72	777	272	1,310	1,445

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.