

Appliance Standards Awareness Project

2024 State Appliance Standards Recommendations

Savings estimates for: [Arizona](#)

	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	2.7	--	--	0.3	0.04	0.3	7.5	--	--	0.2	0.04	0.5
Commercial dishwashers	6.1	151	210	7.5	0.1	8.6	17.9	441	614	20.6	0.1	24.6
Commercial fryers	1.7	564	--	25.8	0.03	30.2	4.5	1,505	--	68.4	0.03	80.3
Commercial ovens	4.5	71	--	3.8	0.1	4.3	11.9	190	--	9.0	0.1	10.9
Commercial steam cookers	2.8	22	63	1.3	0.05	1.5	7.5	60	167	3.0	0.05	3.7
Faucets	29.3	153	755	10.3	0.5	11.3	65.1	337	1,670	17.4	0.4	22.4
Gas fireplaces	--	59	--	2.7	--	3.1	--	189	--	8.6	--	10.1
High CRI fluorescent lamps	33.5	--	--	3.9	0.5	3.6	12.2	--	--	0.4	0.1	0.8
Irrigation controllers	--	--	6,015	--	--	--	--	--	19,382	--	--	--
Portable electric spas	29.8	--	--	3.4	0.5	3.2	58.7	--	--	1.9	0.4	4.0
Residential ventilating fans	2.3	--	--	0.3	0.04	0.2	7.3	--	--	0.2	0.04	0.5
Showerheads	37.1	191	649	12.9	0.6	14.1	82.5	424	1,442	21.9	0.5	28.2
Spray sprinkler bodies	--	--	11,068	--	--	--	--	--	24,595	--	--	--
Toilets (water closets)	--	--	276	--	--	--	--	--	838	--	--	--
Urinals	--	--	62	--	--	--	--	--	166	--	--	--
Water coolers	21.2	--	--	2.5	0.3	2.3	47.2	--	--	1.6	0.3	3.2
Total	171	1,211	17,990	75	3	83	322	3,146	41,619	153	2	189

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: Arizona

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.2	0.5	3.7	2.8
Commercial dishwashers	5.3	17.8	152.8	1.1
Commercial fryers	5.1	15.5	102.2	3.0
Commercial ovens	1.0	3.0	6.4	7.4
Commercial steam cookers	1.5	4.5	39.7	0.9
Faucets	18.4	46.4	468.1	0.0
Gas fireplaces	1.0	3.4	29.6	0.7
High CRI fluorescent lamps	2.9	1.2	12.9	2.3
Irrigation controllers	99.5	370.1	3,392.8	0.7
Portable electric spas	3.5	7.6	63.5	1.2
Residential ventilating fans	0.3	0.9	8.9	0.0
Showerheads	18.2	45.9	462.1	0.0
Spray sprinkler bodies	183.1	469.7	4,397.9	0.7
Toilets (water closets)	4.6	16.0	199.3	0.0
Urinals	1.0	3.2	31.1	0.0
Water coolers	1.8	4.2	42.3	0.0
Total	329	871	8,946	-

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: [Arizona](#)

	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	140	--	--	5.6	1.0	10.5	10.3
Commercial dishwashers	330	8.1	11.3	381.0	2.3	455.8	328.4
Commercial fryers	86	28.6	--	1,299.5	0.6	1,525.4	290.7
Commercial ovens	226	3.6	--	173.1	1.6	209.2	56.0
Commercial steam cookers	143	1.1	3.2	57.4	1.0	71.2	85.3
Faucets	1,303	6.7	33.4	359.3	9.2	456.1	928.9
Gas fireplaces	--	3.4	--	155.4	--	182.1	61.3
High CRI fluorescent lamps	403	--	--	24.9	4.2	34.0	36.8
Irrigation controllers	--	--	350.9	--	--	--	6,808.8
Portable electric spas	1,196	--	--	50.4	8.7	90.5	154.5
Residential ventilating fans	132	--	--	5.2	0.9	9.9	17.3
Showerheads	1,651	8.5	28.8	451.9	11.7	573.9	917.3
Spray sprinkler bodies	--	--	491.9	--	--	--	9,429.4
Toilets (water closets)	--	--	17.5	--	--	--	341.2
Urinals	--	--	3.2	--	--	--	60.8
Water coolers	943	--	--	38.8	6.7	70.8	84.2
Total	6,552	60	817	3,003	48	3,689	17,210

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.