

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Arizona

	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	2.8	--	--	1.2	0.3	1.2	8.0	--	--	3.2	0.9	3.3
Air purifiers	31.0	--	--	13.0	3.6	13.2	62.0	--	--	25.0	7.0	25.3
Commercial dishwashers	3.5	84	117	5.3	0.4	6.0	10.4	248	345	15.5	1.2	17.5
Commercial fryers	0.6	318	--	14.7	0.1	17.1	1.5	847	--	39.2	0.2	45.6
Commercial hot-food holding cabinets	3.7	--	--	1.6	0.4	1.6	9.9	--	--	4.0	1.1	4.1
Commercial steam cookers	6.3	33	106	4.1	0.7	4.4	16.7	89	283	10.8	1.9	11.7
Computers and computer monitors	137.3	--	--	57.4	16.1	58.6	172.5	--	--	69.5	19.5	71.3
Faucets	74.4	347	1,717	46.9	8.7	50.0	165.4	757	3,782	101.1	18.7	107.7
High CRI fluorescent lamps	50.0	--	--	20.9	5.9	21.4	15.8	--	--	6.4	1.8	6.5
Portable air conditioners	4.9	--	--	2.1	0.6	2.1	14.8	--	--	6.0	1.7	6.0
Portable electric spas	5.3	--	--	2.2	0.6	2.2	11.7	--	--	4.7	1.3	4.8
Residential ventilating fans	3.8	--	--	1.6	0.4	1.6	8.5	--	--	3.4	1.0	3.5
Showerheads	52.6	237	817	32.8	6.2	34.9	116.9	527	1,815	71.1	13.2	75.7
Spray sprinkler bodies	--	--	5,311	--	--	--	--	--	10,621	--	--	--
Toilets (water closets)	--	--	460	--	--	--	--	--	1,437	--	--	--
Uninterruptible power supplies	26.4	--	--	11.0	3.1	11.3	35.8	--	--	14.4	4.1	14.9
Urinals	--	--	63	--	--	--	--	--	167	--	--	--
Water coolers	7.5	--	--	3.2	0.9	3.2	16.8	--	--	6.7	1.9	7.0
Total	410	1,019	8,591	218	48	229	667	2,468	18,451	381	76	405

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	2.0	2.5	3.9
Air purifiers	3.7	7.9	33.6	2.3	3.4
Commercial dishwashers	2.7	8.8	54.1	10.4	1.1
Commercial fryers	4.2	11.5	51.7	3.0	3.2
Commercial hot-food holding cabinets	0.4	1.0	4.5	3.0	3.1
Commercial steam cookers	2.2	6.4	40.8	11.0	0.9
Computers and computer monitors	14.4	18.9	77.8	2.0	2.5
Faucets	34.3	84.2	606.8	no cost	0.0
High CRI fluorescent lamps	4.8	1.7	21.4	2.7	2.7
Portable air conditioners	0.6	1.9	8.2	2.9	3.0
Portable electric spas	0.6	1.5	10.9	no cost	0.0
Residential ventilating fans	0.5	1.1	7.8	no cost	0.0
Showerheads	19.7	48.3	349.1	no cost	0.0
Spray sprinkler bodies	59.3	136.5	865.0	8.0	1.1
Toilets (water closets)	5.1	18.5	165.0	no cost	0.0
Uninterruptible power supplies	2.6	3.6	16.5	2.4	2.3
Urinals	0.7	2.1	14.8	no cost	0.0
Water coolers	0.7	1.6	12.0	no cost	0.0
Total	157	356	2,342	9.0	-

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: **Arizona**

	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	68	--	--	28.1	7.9	28.9
Air purifiers	651	--	--	269.1	75.4	273.2
Commercial dishwashers	87	2.1	2.9	130.7	10.1	147.5
Commercial fryers	14	7.6	--	352.9	1.6	410.9
Commercial hot-food holding cabinets	90	--	--	36.9	10.3	38.0
Commercial steam cookers	150	0.8	2.5	98.2	17.3	106.0
Computers and computer monitors	2,088	--	--	865.0	242.4	883.6
Faucets	1,654	7.6	37.9	1,029.4	191.4	1,097.7
High CRI fluorescent lamps	503	--	--	210.4	59.1	215.4
Portable air conditioners	130	--	--	53.4	15.0	54.3
Portable electric spas	117	--	--	48.4	13.6	49.2
Residential ventilating fans	85	--	--	35.0	9.8	35.5
Showerheads	1,169	5.3	18.2	722.5	135.3	770.0
Spray sprinkler bodies	--	--	111.5	--	--	--
Toilets (water closets)	--	--	11.4	--	--	--
Uninterruptible power supplies	427	--	--	177.0	49.6	181.5
Urinals	--	--	1.5	--	--	--
Water coolers	168	--	--	69.2	19.4	71.2
Total	7,402	23	186	4,126	858	4,363

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