

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: [Pennsylvania](#)

	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	9.4	--	--	1.9	3.9	4.3	27.2	--	--	5.8	12.0	12.1
Air purifiers	62.9	--	--	12.5	25.9	28.5	125.7	--	--	27.0	55.3	56.7
Commercial dishwashers	6.5	154	214	8.3	2.7	11.1	19.1	453	630	24.7	8.4	32.5
Commercial fryers	1.1	580	--	26.6	0.4	31.3	2.8	1,546	--	71.0	1.2	83.4
Commercial hot-food holding cabinets	6.8	--	--	1.4	2.8	3.1	18.2	--	--	3.9	8.0	8.1
Commercial steam cookers	11.4	61	194	5.0	4.7	8.4	30.4	162	517	13.9	13.4	22.2
Computers and computer monitors	308.8	--	--	61.5	127.2	140.2	388.0	--	--	83.2	170.6	174.0
Faucets	109.2	807	3,219	58.5	45.0	92.4	242.6	1,767	7,092	132.5	106.7	203.3
High CRI fluorescent lamps	123.7	--	--	24.6	50.9	56.2	36.4	--	--	7.8	16.0	16.3
Portable air conditioners	45.9	--	--	9.1	18.9	20.8	137.7	--	--	29.5	60.6	62.1
Portable electric spas	20.6	--	--	4.1	8.5	9.3	45.7	--	--	9.8	20.1	20.6
Residential ventilating fans	7.7	--	--	1.5	3.2	3.5	17.2	--	--	3.7	7.5	7.7
Showerheads	77.2	555	1,532	40.6	31.8	64.5	171.5	1,234	3,405	93.0	75.4	142.9
Spray sprinkler bodies	--	--	180	--	--	--	--	--	360	--	--	--
Toilets (water closets)	--	--	858	--	--	--	--	--	2,684	--	--	--
Uninterruptible power supplies	62.9	--	--	12.5	25.9	28.6	85.2	--	--	18.3	37.5	38.1
Urinals	--	--	114	--	--	--	--	--	305	--	--	--
Water coolers	10.8	--	--	2.2	4.5	4.9	24.1	--	--	5.2	10.6	10.7
Total	865	2,156	6,312	270	356	507	1,372	5,161	14,993	529	603	891

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	0.7	1.9	8.8	2.9	3.3
Air purifiers	10.7	22.1	115.5	3.3	2.4
Commercial dishwashers	4.9	15.5	95.7	10.1	1.1
Commercial fryers	6.8	18.4	77.9	2.7	3.6
Commercial hot-food holding cabinets	0.6	1.7	8.2	3.0	3.2
Commercial steam cookers	4.0	11.7	74.2	10.9	0.9
Computers and computer monitors	38.6	49.4	233.7	2.4	2.2
Faucets	66.6	161.7	1170.1	no cost	0.0
High CRI fluorescent lamps	12.5	4.6	57.4	2.9	2.6
Portable air conditioners	7.8	24.2	121.4	4.1	2.2
Portable electric spas	3.5	8.0	59.1	no cost	0.0
Residential ventilating fans	1.3	3.0	22.2	no cost	0.0
Showerheads	38.3	92.7	672.4	no cost	0.0
Spray sprinkler bodies	2.1	4.8	30.5	8.2	1.0
Toilets (water closets)	9.9	35.8	319.6	no cost	0.0
Uninterruptible power supplies	6.4	8.8	42.2	2.5	2.3
Urinals	1.3	4.1	28.0	no cost	0.0
Water coolers	1.0	2.3	17.1	no cost	0.0
Total	217	471	3,154	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: Pennsylvania

	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	231	--	--	48.7	102.8	104.4
Air purifiers	1,320	--	--	277.9	587.7	595.2
Commercial dishwashers	160	3.8	5.3	206.4	71.1	273.6
Commercial fryers	25	13.9	--	639.0	11.2	750.6
Commercial hot-food holding cabinets	163	--	--	34.5	72.8	73.9
Commercial steam cookers	274	1.5	4.7	124.1	122.0	201.2
Computers and computer monitors	4,696	--	--	985.1	2,082.3	2,124.2
Faucets	2,426	17.7	71.1	1,319.3	1,080.6	2,036.3
High CRI fluorescent lamps	1,229	--	--	255.0	537.9	557.8
Portable air conditioners	1,207	--	--	255.0	539.1	543.6
Portable electric spas	457	--	--	96.3	203.5	205.9
Residential ventilating fans	172	--	--	36.1	76.4	77.3
Showerheads	1,715	12.3	34.0	923.2	763.8	1,428.4
Spray sprinkler bodies	--	--	3.8	--	--	--
Toilets (water closets)	--	--	21.3	--	--	--
Uninterruptible power supplies	1,018	--	--	213.7	452.0	460.9
Urinals	--	--	2.7	--	--	--
Water coolers	241	--	--	50.7	107.2	108.9
Total	15,334	49	143	5,465	6,810	9,542

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