

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Washington

	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	4.9	--	--	1.3	0.4	1.2	14.2	--	--	4.1	1.1	3.3
Air purifiers	34.2	--	--	9.0	2.9	8.0	68.3	--	--	19.5	5.5	16.4
Commercial dishwashers	3.7	89	124	5.0	0.3	5.6	11.0	262	364	15.1	0.9	16.4
Commercial fryers	0.6	335	--	15.4	0.1	18.0	1.6	894	--	41.2	0.1	47.9
Commercial steam cookers	6.6	35	112	3.3	0.6	3.5	17.6	94	299	9.3	1.4	9.0
Computers and computer monitors	198.5	--	--	52.0	17.0	47.4	249.4	--	--	71.1	19.9	58.4
Faucets	99.0	259	1,806	37.7	8.5	36.8	220.0	560	3,979	88.2	17.6	82.7
High CRI fluorescent lamps	76.1	--	--	19.9	6.5	18.3	21.6	--	--	6.1	1.7	5.1
Portable air conditioners	17.5	--	--	4.6	1.5	4.1	52.4	--	--	15.0	4.2	12.6
Portable electric spas	11.5	--	--	3.0	1.0	2.7	25.5	--	--	7.3	2.0	6.1
Residential ventilating fans	4.2	--	--	1.1	0.4	1.0	9.3	--	--	2.7	0.7	2.2
Showerheads	70.0	174	859	26.3	6.0	25.6	155.5	387	1,910	62.0	12.4	58.0
Spray sprinkler bodies	--	--	3,366	--	--	--	--	--	6,731	--	--	--
Toilets (water closets)	--	--	484	--	--	--	--	--	1,513	--	--	--
Uninterruptible power supplies	43.6	--	--	11.4	3.7	10.5	59.1	--	--	16.8	4.7	13.7
Urinals	--	--	66	--	--	--	--	--	176	--	--	--
Water coolers	7.6	--	--	2.0	0.6	1.8	16.8	--	--	4.8	1.3	3.9
Total	578	893	6,818	192	49	184	922	2,197	14,972	363	74	336

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	0.6	1.6	1.7	5.8
Air purifiers	3.4	7.7	28.1	2.0	4.1
Commercial dishwashers	2.8	9.1	55.5	10.1	1.2
Commercial fryers	4.3	12.1	53.7	3.0	3.8
Commercial steam cookers	2.2	6.5	40.7	10.4	1.0
Computers and computer monitors	16.8	22.5	70.1	1.7	3.1
Faucets	33.1	83.1	593.3	no cost	0.0
High CRI fluorescent lamps	6.0	2.0	23.1	2.3	3.1
Portable air conditioners	1.7	5.9	23.1	2.5	3.7
Portable electric spas	1.1	2.9	20.4	no cost	0.0
Residential ventilating fans	0.4	1.1	7.5	no cost	0.0
Showerheads	18.6	47.0	335.5	no cost	0.0
Spray sprinkler bodies	37.6	86.5	548.2	8.0	1.1
Toilets (water closets)	5.4	19.4	173.7	no cost	0.0
Uninterruptible power supplies	3.4	4.8	18.3	1.9	2.8
Urinals	0.7	2.3	15.6	no cost	0.0
Water coolers	0.6	1.3	9.7	no cost	0.0
Total	138	315	2,018	7.6	-

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: Washington

	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	121	--	--	34.0	9.8	28.6
Air purifiers	717	--	--	201.4	58.3	168.2
Commercial dishwashers	92	2.2	3.1	125.8	7.5	138.3
Commercial fryers	15	8.0	--	370.6	1.2	430.9
Commercial steam cookers	158	0.8	2.7	82.9	12.8	82.2
Computers and computer monitors	3,019	--	--	845.1	246.2	717.3
Faucets	2,200	5.6	39.9	875.0	178.5	815.8
High CRI fluorescent lamps	751	--	--	208.7	62.1	184.2
Portable air conditioners	459	--	--	129.3	37.2	107.6
Portable electric spas	255	--	--	71.5	20.7	59.7
Residential ventilating fans	93	--	--	26.2	7.6	21.9
Showerheads	1,555	3.9	19.1	613.1	126.2	570.3
Spray sprinkler bodies	--	--	70.7	--	--	--
Toilets (water closets)	--	--	12.0	--	--	--
Uninterruptible power supplies	706	--	--	197.7	57.5	168.3
Urinals	--	--	1.6	--	--	--
Water coolers	168	--	--	47.3	13.7	39.9
Total	10,309	21	149	3,828	839	3,533

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