

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: District of Columbia

	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	0.1	--	--	0.01	0.02	0.03	0.2	--	--	0.04	0.1	0.1
Air purifiers	3.5	--	--	0.6	1.0	1.4	7.0	--	--	1.3	1.7	2.7
Commercial dishwashers	0.4	8	12	0.4	0.1	0.6	1.0	25	34	1.3	0.3	1.7
Commercial fryers	0.1	31	--	1.4	0.02	1.7	0.2	84	--	3.8	0.04	4.5
Commercial steam cookers	0.6	3	11	0.3	0.2	0.4	1.6	9	28	0.7	0.4	1.1
Computers and computer monitors	30.8	--	--	5.7	8.4	12.1	38.7	--	--	7.4	9.5	14.7
Faucets	8.3	26	162	2.7	2.3	4.6	18.4	57	356	6.1	4.5	10.1
High CRI fluorescent lamps	16.2	--	--	3.0	4.4	6.4	3.9	--	--	0.7	0.9	1.5
Portable air conditioners	2.0	--	--	0.4	0.5	0.8	5.9	--	--	1.1	1.5	2.3
Portable electric spas	0.5	--	--	0.1	0.1	0.2	1.0	--	--	0.2	0.3	0.4
Residential ventilating fans	0.4	--	--	0.1	0.1	0.2	1.0	--	--	0.2	0.2	0.4
Showerheads	5.9	18	77	1.9	1.6	3.2	13.0	39	171	4.3	3.2	7.1
Spray sprinkler bodies	--	--	390	--	--	--	--	--	780	--	--	--
Toilets (water closets)	--	--	44	--	--	--	--	--	136	--	--	--
Uninterruptible power supplies	7.7	--	--	1.4	2.1	3.0	10.4	--	--	2.0	2.6	3.9
Urinals	--	--	6	--	--	--	--	--	17	--	--	--
Water coolers	2.0	--	--	0.4	0.6	0.8	4.5	--	--	0.9	1.1	1.7
Total	78	87	700	18	21	35	107	213	1,521	30	26	52

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	0.01	0.02	0.1	4.5	2.3
Air purifiers	0.5	1.1	5.7	3.0	2.7
Commercial dishwashers	0.3	0.9	5.6	10.8	1.0
Commercial fryers	0.4	1.1	4.9	2.9	3.2
Commercial steam cookers	0.2	0.7	4.5	12.0	0.9
Computers and computer monitors	4.0	5.1	24.9	2.5	2.1
Faucets	3.5	8.5	61.6	no cost	0.0
High CRI fluorescent lamps	2.0	0.5	9.5	3.7	2.0
Portable air conditioners	0.3	1.0	4.7	3.8	2.4
Portable electric spas	0.1	0.2	1.2	no cost	0.0
Residential ventilating fans	0.1	0.2	1.1	no cost	0.0
Showerheads	2.0	4.9	35.7	no cost	0.0
Spray sprinkler bodies	4.5	10.5	66.7	8.3	1.0
Toilets (water closets)	0.5	1.8	16.3	no cost	0.0
Uninterruptible power supplies	1.0	1.3	7.0	3.0	1.9
Urinals	0.1	0.2	1.5	no cost	0.0
Water coolers	0.2	0.6	4.2	no cost	0.0
Total	20	39	255	7.2	-

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: District of Columbia

	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	2	--	--	0.3	0.5	0.7
Air purifiers	74	--	--	13.8	19.5	28.2
Commercial dishwashers	9	0.2	0.3	11.0	2.3	14.3
Commercial fryers	1	0.8	--	34.6	0.4	40.6
Commercial steam cookers	15	0.1	0.3	6.4	3.9	9.9
Computers and computer monitors	469	--	--	88.1	124.7	181.2
Faucets	184	0.6	3.6	60.6	48.6	100.9
High CRI fluorescent lamps	156	--	--	29.2	42.2	60.6
Portable air conditioners	52	--	--	9.8	13.7	19.9
Portable electric spas	10	--	--	1.9	2.7	3.9
Residential ventilating fans	10	--	--	1.8	2.5	3.7
Showerheads	130	0.4	1.7	42.3	34.4	70.7
Spray sprinkler bodies	--	--	8.2	--	--	--
Toilets (water closets)	--	--	1.1	--	--	--
Uninterruptible power supplies	124	--	--	23.4	33.1	48.2
Urinals	--	--	0.1	--	--	--
Water coolers	45	--	--	8.5	11.9	17.5
Total	1,280	2	15	332	340	600

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