

States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards (Full report at <https://appliance-standards.org/document/states-go-first>)

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)
Faucets	12.4	40	243	4.0	4.4	6.9	22.5	70	437	6.5	5.5	11.7
Showerheads	8.8	27	116	2.8	3.1	4.8	16.0	48	210	4.5	3.9	8.2
Lawn spray sprinklers	--	--	467	--	--	--	--	--	765	--	--	--
Toilets	--	--	60	--	--	--	--	--	164	--	--	--
Computers and monitors	38.2	--	--	6.9	13.6	15.4	42.8	--	--	6.2	10.5	15.4
High CRI fluorescent lamps	67.8	--	--	12.2	24.1	27.5	20.7	--	--	3.0	5.1	7.4
Air purifiers	5.0	--	--	0.9	1.8	2.0	8.2	--	--	1.2	2.0	2.9
Pool pump replacement motors	5.2	--	--	0.9	1.9	2.0	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.1	44	--	2.0	0.03	2.4	0.2	96	--	4.4	0.1	5.1
Commercial dishwashers	0.4	10	13	0.5	0.1	0.7	1.0	23	32	1.2	0.2	1.6
Commercial steam cookers	0.7	4	12	0.3	0.3	0.5	1.6	9	27	0.6	0.4	1.0
Portable air conditioners	3.0	--	--	0.5	1.1	1.2	5.8	--	--	0.8	1.4	2.0
Urinals	--	--	20	--	--	--	--	--	44	--	--	--
Audio/video equipment	3.0	--	--	0.5	1.1	1.1	3.0	--	--	0.4	0.7	1.0
Uninterruptible power supplies	9.2	--	--	1.6	3.3	3.7	10.2	--	--	1.5	2.5	3.7
Telephones	3.9	--	--	0.7	1.4	1.6	3.9	--	--	0.6	0.9	1.4
Water coolers	3.0	--	--	0.5	1.1	1.2	5.4	--	--	0.8	1.3	1.9
Ventilation fans	0.7	--	--	0.1	0.3	0.3	1.6	--	--	0.2	0.4	0.6
Portable electric spas	0.6	--	--	0.1	0.2	0.2	1.0	--	--	0.1	0.2	0.4
Hot food holding cabinets	0.5	--	--	0.1	0.2	0.2	1.1	--	--	0.2	0.3	0.4
Compressors	0.1	--	--	0.02	0.04	0.04	0.2	--	--	0.04	0.1	0.1
Total	162	124	933	35	58	72	145	246	1,680	32	36	65

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding. Potential savings for pool pump replacement motors are zero in 2035 because we assume that the recommended standard would affect just seven years of product sales beginning in 2021.

	Potential annual utility bill savings (million 2016\$)		Net present value savings (million 2016\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Faucets	5.1	10.3	76.9	no cost	0.0
Showerheads	3.0	6.0	44.7	no cost	0.0
Lawn spray sprinklers	5.4	10.1	66.5	8.3	1.0
Toilets	0.7	2.2	18.9	no cost	0.0
Computers and monitors	5.1	6.2	31.6	2.7	2.1
High CRI fluorescent lamps	8.9	2.9	34.3	2.3	2.2
Air purifiers	0.7	1.3	6.6	2.9	2.9
Pool pump replacement motors	0.8	0.0	4.3	8.6	0.8
Commercial fryers	0.6	1.5	8.0	3.7	2.9
Commercial dishwashers	0.3	0.9	5.9	11.8	1.0
Commercial steam cookers	0.3	0.7	4.8	12.8	0.8
Portable air conditioners	0.4	0.9	4.9	3.6	2.7
Urinals	0.2	0.6	4.2	no cost	0.0
Audio/video equipment	0.4	0.5	3.9	no cost	0.0
Uninterruptible power supplies	1.2	1.4	8.4	3.4	1.8
Telephones	0.5	0.6	4.6	no cost	0.0
Water coolers	0.4	0.8	5.8	no cost	0.0
Ventilation fans	0.1	0.3	1.9	no cost	0.0
Portable electric spas	0.1	0.2	1.2	no cost	0.0
Hot food holding cabinets	0.1	0.2	0.9	4.4	2.4
Compressors	0.01	0.03	0.2	5.2	2.1
Total	34	47	338	6.0	-

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2020 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 21 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)
Faucets	247	0.8	4.8	75.5	76.2	132.5
Showerheads	176	0.5	2.3	52.5	54.3	92.9
Lawn spray sprinklers	--	--	8.8	--	--	--
Toilets	--	--	1.4	--	--	--
Computers and monitors	554	--	--	90.8	174.1	208.8
High CRI fluorescent lamps	693	--	--	121.6	231.4	266.3
Air purifiers	95	--	--	15.3	29.4	34.9
Pool pump replacement motors	53	--	--	8.9	17.6	19.8
Commercial fryers	2	1.0	--	43.8	0.6	51.5
Commercial dishwashers	9	0.2	0.3	11.3	2.8	14.9
Commercial steam cookers	16	0.1	0.3	6.5	4.9	10.6
Portable air conditioners	62	--	--	10.0	19.1	22.8
Urinals	--	--	0.4	--	--	--
Audio/video equipment	39	--	--	6.5	12.4	14.6
Uninterruptible power supplies	132	--	--	21.6	41.4	49.9
Telephones	51	--	--	8.5	16.2	19.5
Water coolers	59	--	--	9.5	18.2	22.2
Ventilation fans	16	--	--	2.6	5.0	6.0
Portable electric spas	11	--	--	1.8	3.4	4.1
Hot food holding cabinets	11	--	--	1.7	3.3	4.0
Compressors	2	--	--	0.4	0.7	0.9
Total	2,229	3	18	489	711	976

Assuming a compliance date of 2020 for almost all of the recommended standards. Products are listed in order of potential national net present value savings. Totals may not sum due to rounding.