

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: Connecticut

	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	32.5	424	1,390	25.3	2.4	28.3	59.0	758	2,498	46.4	4.2	51.3
Showerheads	23.2	292	661	17.5	1.7	19.6	42.1	530	1,202	32.6	3.0	36.1
Lawn spray sprinklers	--	--	654	--	--	--	--	--	1,071	--	--	--
Toilets	--	--	341	--	--	--	--	--	925	--	--	--
Computers and monitors	94.3	--	--	17.4	7.0	16.7	105.6	--	--	21.2	7.4	19.6
High CRI fluorescent lamps	128.2	--	--	23.6	9.4	22.7	42.8	--	--	8.6	3.0	7.9
Air purifiers	24.9	--	--	4.6	1.8	4.4	40.8	--	--	8.2	2.9	7.6
Pool pump replacement motors	34.4	--	--	6.3	2.5	6.1	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.5	230	--	10.6	0.04	12.3	1.1	501	--	23.1	0.1	26.8
Commercial dishwashers	2.1	50	70	2.7	0.2	3.1	5.1	121	169	6.6	0.4	7.4
Commercial steam cookers	3.9	21	66	1.6	0.3	1.8	8.4	45	143	3.7	0.6	3.9
Portable air conditioners	26.9	--	--	5.0	2.0	4.8	51.4	--	--	10.3	3.6	9.6
Urinals	--	--	107	--	--	--	--	--	233	--	--	--
Audio/video equipment	14.6	--	--	2.7	1.1	2.6	14.6	--	--	2.9	1.0	2.7
Uninterruptible power supplies	17.5	--	--	3.2	1.3	3.1	19.4	--	--	3.9	1.4	3.6
Telephones	7.8	--	--	1.4	0.6	1.4	7.8	--	--	1.6	0.5	1.4
Water coolers	4.7	--	--	0.9	0.3	0.8	8.5	--	--	1.7	0.6	1.6
Ventilation fans	3.7	--	--	0.7	0.3	0.7	8.1	--	--	1.6	0.6	1.5
Portable electric spas	5.8	--	--	1.1	0.4	1.0	10.6	--	--	2.1	0.7	2.0
Hot food holding cabinets	2.6	--	--	0.5	0.2	0.5	5.6	--	--	1.1	0.4	1.0
Compressors	0.9	--	--	0.2	0.1	0.2	2.0	--	--	0.4	0.1	0.4
Total	429	1,016	3,289	125	32	130	433	1,956	6,241	176	30	185

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	27.5	56.1	416.1	no cost	0.0
Showerheads	15.7	32.3	239.6	no cost	0.0
Lawn spray sprinklers	7.4	14.0	92.4	8.2	1.0
Toilets	3.9	12.1	106.3	no cost	0.0
Computers and monitors	16.3	20.0	112.8	3.4	1.6
High CRI fluorescent lamps	20.6	7.6	88.4	2.6	2.0
Air purifiers	4.7	8.7	48.8	3.9	2.2
Pool pump replacement motors	6.6	0.0	37.9	11.2	0.6
Commercial fryers	2.2	5.0	21.1	2.3	4.2
Commercial dishwashers	1.6	4.3	27.1	10.3	1.1
Commercial steam cookers	1.5	3.7	24.7	12.7	0.8
Portable air conditioners	5.1	11.0	63.9	4.9	2.0
Urinals	1.2	3.1	21.8	no cost	0.0
Audio/video equipment	2.8	3.1	25.1	no cost	0.0
Uninterruptible power supplies	2.8	3.4	20.8	4.1	1.5
Telephones	1.3	1.4	11.8	no cost	0.0
Water coolers	0.7	1.4	10.8	no cost	0.0
Ventilation fans	0.7	1.7	12.3	no cost	0.0
Portable electric spas	1.1	2.3	16.7	no cost	0.0
Hot food holding cabinets	0.4	1.0	5.6	5.3	2.0
Compressors	0.1	0.4	2.2	7.3	1.4
Total	124	193	1,406	8.8	-

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: **Connecticut**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	650	8.4	27.6	510.3	46.3	566.2
Showerheads	463	5.8	13.2	357.0	33.0	395.8
Lawn spray sprinklers	--	--	12.3	--	--	--
Toilets	--	--	7.9	--	--	--
Computers and monitors	1,367	--	--	267.5	98.0	255.4
High CRI fluorescent lamps	1,338	--	--	257.3	98.3	260.8
Air purifiers	469	--	--	92.3	33.4	87.0
Pool pump replacement motors	348	--	--	67.2	25.0	64.3
Commercial fryers	11	5.0	--	230.6	0.8	268.5
Commercial dishwashers	48	1.1	1.6	61.4	3.4	69.5
Commercial steam cookers	84	0.4	1.4	37.0	6.0	39.6
Portable air conditioners	553	--	--	109.2	39.4	102.6
Urinals	--	--	2.3	--	--	--
Audio/video equipment	195	--	--	38.1	14.0	36.0
Uninterruptible power supplies	251	--	--	49.2	18.0	47.3
Telephones	104	--	--	20.4	7.5	19.6
Water coolers	93	--	--	18.4	6.6	17.5
Ventilation fans	81	--	--	15.9	5.7	15.0
Portable electric spas	116	--	--	22.9	8.3	21.6
Hot food holding cabinets	56	--	--	11.1	4.0	10.5
Compressors	19	--	--	3.8	1.4	3.7
Total	6,247	21	66	2,170	449	2,281

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.