

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: Vermont

	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	5.6	73	241	4.4	0.4	4.9	10.2	131	433	8.0	0.7	8.9
Showerheads	4.0	51	115	3.0	0.3	3.4	7.3	92	208	5.6	0.5	6.2
Lawn spray sprinklers	--	--	39	--	--	--	--	--	64	--	--	--
Toilets	--	--	59	--	--	--	--	--	161	--	--	--
Computers and monitors	16.1	--	--	3.0	1.2	2.9	18.0	--	--	3.6	1.3	3.4
High CRI fluorescent lamps	20.1	--	--	3.7	1.5	3.6	6.9	--	--	1.4	0.5	1.3
Air purifiers	4.7	--	--	0.9	0.3	0.8	7.8	--	--	1.6	0.5	1.5
Pool pump replacement motors	6.5	--	--	1.2	0.5	1.2	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.1	40	--	1.8	0.01	2.1	0.2	88	--	4.0	0.01	4.7
Commercial dishwashers	0.4	9	12	0.5	0.03	0.5	0.9	21	30	1.1	0.1	1.3
Commercial steam cookers	0.7	4	11	0.3	0.05	0.3	1.5	8	25	0.7	0.1	0.7
Portable air conditioners	5.1	--	--	0.9	0.4	0.9	9.8	--	--	2.0	0.7	1.8
Urinals	--	--	19	--	--	--	--	--	41	--	--	--
Audio/video equipment	2.8	--	--	0.5	0.2	0.5	2.8	--	--	0.6	0.2	0.5
Uninterruptible power supplies	2.8	--	--	0.5	0.2	0.5	3.1	--	--	0.6	0.2	0.6
Telephones	1.3	--	--	0.2	0.1	0.2	1.3	--	--	0.3	0.1	0.2
Water coolers	0.7	--	--	0.1	0.1	0.1	1.3	--	--	0.3	0.1	0.2
Ventilation fans	0.7	--	--	0.1	0.1	0.1	1.5	--	--	0.3	0.1	0.3
Portable electric spas	1.2	--	--	0.2	0.1	0.2	2.2	--	--	0.4	0.2	0.4
Hot food holding cabinets	0.4	--	--	0.1	0.03	0.1	1.0	--	--	0.2	0.1	0.2
Compressors	0.3	--	--	0.1	0.02	0.1	0.8	--	--	0.2	0.1	0.1
Total	74	176	496	22	5	22	77	340	960	31	5	32

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	4.7	9.6	71.4	no cost	0.0
Showerheads	2.7	5.5	41.0	no cost	0.0
Lawn spray sprinklers	0.4	0.8	5.5	8.2	1.0
Toilets	0.7	2.1	18.4	no cost	0.0
Computers and monitors	2.4	3.0	15.7	3.0	1.9
High CRI fluorescent lamps	2.9	1.1	11.6	2.3	2.3
Air purifiers	0.7	1.4	7.0	3.2	2.8
Pool pump replacement motors	1.0	0.0	5.8	9.2	0.8
Commercial fryers	0.4	0.8	3.2	2.1	4.6
Commercial dishwashers	0.3	0.7	4.5	9.9	1.1
Commercial steam cookers	0.3	0.6	4.1	12.1	0.9
Portable air conditioners	0.8	1.7	9.3	4.0	2.5
Urinals	0.2	0.5	3.8	no cost	0.0
Audio/video equipment	0.4	0.5	3.9	no cost	0.0
Uninterruptible power supplies	0.4	0.5	2.9	3.7	1.6
Telephones	0.2	0.2	1.7	no cost	0.0
Water coolers	0.1	0.2	1.5	no cost	0.0
Ventilation fans	0.1	0.3	1.9	no cost	0.0
Portable electric spas	0.2	0.4	2.9	no cost	0.0
Hot food holding cabinets	0.1	0.2	0.9	4.8	2.2
Compressors	0.04	0.1	0.7	5.8	1.8
Total	19	30	218	8.4	-

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: **Vermont**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	113	1.5	4.8	88.4	8.0	98.1
Showerheads	80	1.0	2.3	61.8	5.7	68.6
Lawn spray sprinklers	--	--	0.7	--	--	--
Toilets	--	--	1.4	--	--	--
Computers and monitors	233	--	--	45.6	16.7	43.5
High CRI fluorescent lamps	211	--	--	40.6	15.5	41.1
Air purifiers	89	--	--	17.6	6.4	16.5
Pool pump replacement motors	66	--	--	12.8	4.8	12.2
Commercial fryers	2	0.9	--	40.3	0.1	46.9
Commercial dishwashers	8	0.2	0.3	10.7	0.6	12.1
Commercial steam cookers	15	0.1	0.2	6.5	1.0	6.9
Portable air conditioners	105	--	--	20.8	7.5	19.5
Urinals	--	--	0.4	--	--	--
Audio/video equipment	37	--	--	7.2	2.7	6.8
Uninterruptible power supplies	40	--	--	7.8	2.9	7.5
Telephones	17	--	--	3.4	1.2	3.3
Water coolers	14	--	--	2.9	1.0	2.7
Ventilation fans	15	--	--	3.0	1.1	2.8
Portable electric spas	25	--	--	4.9	1.8	4.6
Hot food holding cabinets	10	--	--	1.9	0.7	1.8
Compressors	8	--	--	1.5	0.5	1.4
Total	1,089	4	10	378	78	397

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.