

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: Delaware

	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	18.1	58	357	5.9	6.4	10.1	32.9	103	641	9.5	8.1	17.1
Showerheads	12.9	39	169	4.1	4.6	7.1	23.5	71	308	6.6	5.8	12.1
Lawn spray sprinklers	--	--	226	--	--	--	--	--	369	--	--	--
Toilets	--	--	88	--	--	--	--	--	238	--	--	--
Computers and monitors	25.9	--	--	4.6	9.2	10.3	29.0	--	--	4.2	7.1	10.4
High CRI fluorescent lamps	35.6	--	--	6.4	12.7	14.5	11.8	--	--	1.7	2.9	4.2
Air purifiers	6.3	--	--	1.1	2.3	2.5	10.4	--	--	1.5	2.5	3.7
Pool pump replacement motors	6.6	--	--	1.2	2.3	2.5	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.1	61	--	2.8	0.05	3.3	0.3	133	--	6.1	0.1	7.2
Commercial dishwashers	0.6	13	19	0.7	0.2	0.9	1.4	32	45	1.7	0.3	2.2
Commercial steam cookers	1.0	5	17	0.4	0.4	0.7	2.2	12	38	0.9	0.6	1.4
Portable air conditioners	3.8	--	--	0.7	1.4	1.5	7.3	--	--	1.1	1.8	2.6
Urinals	--	--	28	--	--	--	--	--	62	--	--	--
Audio/video equipment	3.7	--	--	0.7	1.3	1.4	3.7	--	--	0.5	0.9	1.3
Uninterruptible power supplies	5.0	--	--	0.9	1.8	2.0	5.6	--	--	0.8	1.4	2.0
Telephones	2.4	--	--	0.4	0.8	0.9	2.4	--	--	0.3	0.6	0.8
Water coolers	1.5	--	--	0.3	0.5	0.6	2.8	--	--	0.4	0.7	1.0
Ventilation fans	0.9	--	--	0.2	0.3	0.4	2.1	--	--	0.3	0.5	0.7
Portable electric spas	0.7	--	--	0.1	0.2	0.3	1.3	--	--	0.2	0.3	0.4
Hot food holding cabinets	0.7	--	--	0.1	0.2	0.3	1.5	--	--	0.2	0.4	0.5
Compressors	0.6	--	--	0.1	0.2	0.2	1.4	--	--	0.2	0.3	0.5
Total	126	177	904	31	45	60	139	351	1,701	36	34	68

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	7.6	15.3	114.6	no cost	0.0
Showerheads	4.4	8.9	66.8	no cost	0.0
Lawn spray sprinklers	2.6	4.9	32.1	8.3	1.0
Toilets	1.0	3.1	27.6	no cost	0.0
Computers and monitors	3.3	4.0	19.7	2.5	2.2
High CRI fluorescent lamps	4.1	1.5	13.5	1.9	2.8
Air purifiers	1.0	1.7	8.7	3.0	2.8
Pool pump replacement motors	1.0	0.0	5.6	8.9	0.8
Commercial fryers	0.9	2.0	10.6	3.5	3.0
Commercial dishwashers	0.5	1.2	8.0	11.3	1.0
Commercial steam cookers	0.4	1.0	6.3	12.1	0.9
Portable air conditioners	0.6	1.2	6.5	3.8	2.6
Urinals	0.3	0.8	5.8	no cost	0.0
Audio/video equipment	0.6	0.6	5.0	no cost	0.0
Uninterruptible power supplies	0.6	0.7	3.8	2.9	2.1
Telephones	0.3	0.3	2.6	no cost	0.0
Water coolers	0.2	0.3	2.5	no cost	0.0
Ventilation fans	0.1	0.3	2.4	no cost	0.0
Portable electric spas	0.1	0.2	1.5	no cost	0.0
Hot food holding cabinets	0.1	0.2	1.0	3.8	2.8
Compressors	0.1	0.1	0.8	4.4	2.5
Total	30	48	345	8.3	-

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: **Delaware**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	362	1.1	7.1	110.5	111.7	194.0
Showerheads	258	0.8	3.4	77.0	79.7	136.3
Lawn spray sprinklers	--	--	4.2	--	--	--
Toilets	--	--	2.0	--	--	--
Computers and monitors	375	--	--	61.5	117.8	140.8
High CRI fluorescent lamps	371	--	--	64.8	123.4	142.1
Air purifiers	119	--	--	19.3	36.9	43.9
Pool pump replacement motors	66	--	--	11.2	22.2	24.9
Commercial fryers	3	1.3	--	61.3	0.9	72.0
Commercial dishwashers	13	0.3	0.4	15.8	3.9	20.9
Commercial steam cookers	22	0.1	0.4	9.0	6.8	14.7
Portable air conditioners	78	--	--	12.6	24.1	28.7
Urinals	--	--	0.6	--	--	--
Audio/video equipment	50	--	--	8.2	15.6	18.4
Uninterruptible power supplies	72	--	--	11.8	22.6	27.2
Telephones	31	--	--	5.2	9.9	11.9
Water coolers	30	--	--	4.9	9.4	11.4
Ventilation fans	21	--	--	3.3	6.3	7.5
Portable electric spas	14	--	--	2.2	4.3	5.1
Hot food holding cabinets	15	--	--	2.4	4.6	5.6
Compressors	13	--	--	2.1	4.0	4.9
Total	1,914	4	18	483	604	910

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.