

**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: Maryland**

	Potential annual savings in 2025						Potential annual savings in 2035					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Faucets	117.6	379	2,312	38.4	41.8	65.7	213.7	668	4,156	61.3	52.4	111.0
Showerheads	83.9	252	1,100	26.6	29.8	45.9	152.5	459	1,999	42.9	37.4	78.2
Lawn spray sprinklers	--	--	2,819	--	--	--	--	--	4,612	--	--	--
Toilets	--	--	568	--	--	--	--	--	1,542	--	--	--
Computers and monitors	175.2	--	--	31.5	62.3	70.0	196.2	--	--	28.4	48.1	70.2
High CRI fluorescent lamps	251.8	--	--	45.2	89.5	102.2	81.9	--	--	11.9	20.1	29.5
Air purifiers	39.9	--	--	7.2	14.2	15.5	65.3	--	--	9.4	16.0	23.1
Pool pump replacement motors	41.3	--	--	7.4	14.7	16.0	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.9	387	--	17.8	0.3	20.9	1.9	844	--	38.7	0.5	45.5
Commercial dishwashers	3.6	85	118	4.5	1.3	6.0	8.6	204	284	10.5	2.1	14.0
Commercial steam cookers	6.5	35	110	2.7	2.3	4.5	14.2	75	241	5.5	3.5	9.1
Portable air conditioners	24.0	--	--	4.3	8.5	9.3	45.8	--	--	6.6	11.2	16.2
Urinals	--	--	180	--	--	--	--	--	392	--	--	--
Audio/video equipment	23.5	--	--	4.2	8.3	9.1	23.5	--	--	3.4	5.8	8.3
Uninterruptible power supplies	35.2	--	--	6.3	12.5	14.2	39.0	--	--	5.6	9.6	14.0
Telephones	16.2	--	--	2.9	5.8	6.5	16.2	--	--	2.3	4.0	5.8
Water coolers	10.8	--	--	1.9	3.8	4.4	19.6	--	--	2.8	4.8	7.1
Ventilation fans	5.9	--	--	1.1	2.1	2.3	13.0	--	--	1.9	3.2	4.6
Portable electric spas	4.5	--	--	0.8	1.6	1.7	8.1	--	--	1.2	2.0	2.9
Hot food holding cabinets	4.3	--	--	0.8	1.5	1.8	9.4	--	--	1.4	2.3	3.4
Compressors	1.1	--	--	0.2	0.4	0.4	2.5	--	--	0.4	0.6	0.9
<b>Total</b>	<b>846</b>	<b>1,137</b>	<b>7,207</b>	<b>204</b>	<b>301</b>	<b>396</b>	<b>911</b>	<b>2,250</b>	<b>13,227</b>	<b>234</b>	<b>223</b>	<b>444</b>

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	49.7	99.9	747.6	no cost	0.0
Showerheads	28.9	58.3	436.8	no cost	0.0
Lawn spray sprinklers	32.3	60.9	401.1	8.3	1.0
Toilets	6.5	20.3	178.4	no cost	0.0
Computers and monitors	23.4	28.1	143.1	2.7	2.1
High CRI fluorescent lamps	30.6	11.0	109.2	2.0	2.6
Air purifiers	6.2	10.8	57.3	3.1	2.8
Pool pump replacement motors	6.4	0.0	36.4	9.2	0.7
Commercial fryers	5.0	11.7	59.3	3.2	3.2
Commercial dishwashers	2.8	7.6	49.1	11.1	1.0
Commercial steam cookers	2.5	6.0	40.0	12.2	0.9
Portable air conditioners	3.7	7.6	42.5	3.9	2.5
Urinals	2.1	5.2	36.9	no cost	0.0
Audio/video equipment	3.7	3.9	32.5	no cost	0.0
Uninterruptible power supplies	4.3	5.2	29.0	3.1	2.0
Telephones	2.1	2.2	18.8	no cost	0.0
Water coolers	1.3	2.5	19.2	no cost	0.0
Ventilation fans	0.9	2.2	15.7	no cost	0.0
Portable electric spas	0.7	1.3	10.2	no cost	0.0
Hot food holding cabinets	0.5	1.2	6.7	4.0	2.6
Compressors	0.1	0.3	1.6	4.6	2.4
<b>Total</b>	<b>214</b>	<b>346</b>	<b>2,471</b>	<b>8.2</b>	<b>–</b>

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: **Maryland**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Faucets	2,351	7.4	45.9	717.0	724.8	1,258.9
Showerheads	1,677	5.0	22.0	499.7	517.1	884.3
Lawn spray sprinklers	--	--	53.0	--	--	--
Toilets	--	--	13.1	--	--	--
Computers and monitors	2,538	--	--	416.5	798.1	954.0
High CRI fluorescent lamps	2,612	--	--	457.0	869.7	1,001.9
Air purifiers	751	--	--	121.3	232.6	276.4
Pool pump replacement motors	417	--	--	70.5	139.5	156.8
Commercial fryers	19	8.4	--	387.2	5.7	455.1
Commercial dishwashers	81	1.9	2.7	100.1	24.5	132.0
Commercial steam cookers	142	0.8	2.4	57.0	43.3	93.2
Portable air conditioners	493	--	--	79.2	151.5	180.9
Urinals	--	--	3.9	--	--	--
Audio/video equipment	312	--	--	51.5	98.5	115.9
Uninterruptible power supplies	505	--	--	82.8	158.7	191.0
Telephones	217	--	--	35.8	68.5	81.8
Water coolers	215	--	--	34.7	66.4	81.1
Ventilation fans	129	--	--	20.7	39.4	47.3
Portable electric spas	89	--	--	14.3	27.4	32.7
Hot food holding cabinets	94	--	--	15.1	28.8	35.4
Compressors	24	--	--	3.8	7.3	9.0
<b>Total</b>	<b>12,667</b>	<b>24</b>	<b>143</b>	<b>3,164</b>	<b>4,002</b>	<b>5,988</b>

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.