

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: Idaho

	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	15.8	189	636	13.4	1.4	13.7	28.8	338	1,143	23.8	2.3	24.4
Showerheads	11.3	130	302	9.3	1.0	9.5	20.5	236	550	16.8	1.6	17.2
Lawn spray sprinklers	--	--	1,917	--	--	--	--	--	3,137	--	--	--
Toilets	--	--	157	--	--	--	--	--	425	--	--	--
Computers and monitors	38.2	--	--	11.5	3.4	8.9	42.8	--	--	12.5	3.4	9.6
High CRI fluorescent lamps	43.2	--	--	13.0	3.8	10.1	15.0	--	--	4.4	1.2	3.4
Air purifiers	10.9	--	--	3.3	1.0	2.5	17.8	--	--	5.2	1.4	4.0
Pool pump replacement motors	5.0	--	--	1.5	0.4	1.2	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.2	108	--	5.0	0.02	5.8	0.5	236	--	10.9	0.04	12.7
Commercial dishwashers	1.0	24	33	1.4	0.1	1.5	2.4	57	80	3.3	0.2	3.6
Commercial steam cookers	1.8	10	31	1.0	0.2	0.9	4.0	21	67	2.1	0.3	2.0
Portable air conditioners	3.6	--	--	1.1	0.3	0.8	6.8	--	--	2.0	0.5	1.5
Urinals	--	--	50	--	--	--	--	--	110	--	--	--
Audio/video equipment	6.4	--	--	1.9	0.6	1.5	6.4	--	--	1.9	0.5	1.4
Uninterruptible power supplies	6.8	--	--	2.0	0.6	1.6	7.5	--	--	2.2	0.6	1.7
Telephones	3.6	--	--	1.1	0.3	0.9	3.6	--	--	1.1	0.3	0.8
Water coolers	2.3	--	--	0.7	0.2	0.5	4.1	--	--	1.2	0.3	0.9
Ventilation fans	1.6	--	--	0.5	0.1	0.4	3.5	--	--	1.0	0.3	0.8
Portable electric spas	2.4	--	--	0.7	0.2	0.6	4.3	--	--	1.3	0.3	1.0
Hot food holding cabinets	1.2	--	--	0.4	0.1	0.3	2.6	--	--	0.8	0.2	0.6
Compressors	2.0	--	--	0.6	0.2	0.5	4.8	--	--	1.4	0.4	1.1
Total	157	461	3,127	68	14	61	176	888	5,512	92	14	87

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	10.5	21.2	158.1	no cost	0.0
Showerheads	5.8	11.8	87.5	no cost	0.0
Lawn spray sprinklers	21.0	39.7	259.8	7.9	1.1
Toilets	1.7	5.4	47.1	no cost	0.0
Computers and monitors	3.4	3.9	13.4	1.7	3.0
High CRI fluorescent lamps	3.3	1.2	4.3	1.2	4.1
Air purifiers	1.1	2.0	8.0	2.1	3.9
Pool pump replacement motors	0.5	0.0	2.7	6.1	1.1
Commercial fryers	1.0	2.2	8.8	2.2	4.6
Commercial dishwashers	0.6	1.7	10.7	8.9	1.3
Commercial steam cookers	0.6	1.3	8.7	9.7	1.1
Portable air conditioners	0.4	0.8	3.5	2.6	3.6
Urinals	0.6	1.4	9.9	no cost	0.0
Audio/video equipment	0.7	0.7	5.9	no cost	0.0
Uninterruptible power supplies	0.5	0.6	2.3	1.9	2.9
Telephones	0.3	0.3	2.6	no cost	0.0
Water coolers	0.2	0.3	2.3	no cost	0.0
Ventilation fans	0.2	0.4	2.9	no cost	0.0
Portable electric spas	0.2	0.5	3.7	no cost	0.0
Hot food holding cabinets	0.1	0.2	0.8	2.3	3.9
Compressors	0.1	0.3	1.4	2.7	3.7
Total	53	96	644	7.5	-

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: Idaho

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	317	3.7	12.6	266.5	26.5	271.9
Showerheads	226	2.6	6.0	186.8	18.9	190.1
Lawn spray sprinklers	--	--	36.1	--	--	--
Toilets	--	--	3.6	--	--	--
Computers and monitors	553	--	--	167.9	46.7	130.3
High CRI fluorescent lamps	455	--	--	138.8	39.8	112.8
Air purifiers	204	--	--	62.0	17.1	47.2
Pool pump replacement motors	51	--	--	15.5	4.3	11.8
Commercial fryers	5	2.4	--	109.1	0.4	126.6
Commercial dishwashers	23	0.5	0.7	31.2	1.9	33.8
Commercial steam cookers	40	0.2	0.7	21.6	3.3	20.6
Portable air conditioners	73	--	--	22.2	6.1	16.8
Urinals	--	--	1.1	--	--	--
Audio/video equipment	85	--	--	25.8	7.2	19.6
Uninterruptible power supplies	97	--	--	29.5	8.2	23.2
Telephones	49	--	--	14.8	4.1	11.6
Water coolers	45	--	--	13.7	3.8	10.7
Ventilation fans	35	--	--	10.6	2.9	8.1
Portable electric spas	47	--	--	14.4	4.0	10.9
Hot food holding cabinets	26	--	--	8.0	2.2	6.3
Compressors	46	--	--	13.9	3.8	10.9
Total	2,377	9	61	1,152	201	1,063

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.