

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: Utah

	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	28.4	339	1,141	24.0	2.5	24.6	51.6	606	2,050	42.7	4.1	43.8
Showerheads	20.2	233	542	16.7	1.8	17.1	36.8	423	986	30.1	3.0	30.8
Lawn spray sprinklers	--	--	3,484	--	--	--	--	--	5,701	--	--	--
Toilets	--	--	282	--	--	--	--	--	763	--	--	--
Computers and monitors	65.1	--	--	19.6	5.7	15.2	72.9	--	--	21.4	5.9	16.4
High CRI fluorescent lamps	79.3	--	--	23.8	7.0	18.5	26.8	--	--	7.9	2.2	6.0
Air purifiers	16.7	--	--	5.0	1.5	3.9	27.3	--	--	8.0	2.2	6.2
Pool pump replacement motors	7.7	--	--	2.3	0.7	1.8	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.4	196	--	9.1	0.04	10.5	0.9	428	--	19.8	0.1	22.9
Commercial dishwashers	1.8	43	60	2.5	0.2	2.7	4.4	104	144	6.0	0.4	6.5
Commercial steam cookers	3.3	18	56	1.8	0.3	1.7	7.2	38	122	3.8	0.6	3.6
Portable air conditioners	5.5	--	--	1.6	0.5	1.3	10.4	--	--	3.1	0.8	2.4
Urinals	--	--	91	--	--	--	--	--	199	--	--	--
Audio/video equipment	9.8	--	--	2.9	0.9	2.3	9.8	--	--	2.9	0.8	2.2
Uninterruptible power supplies	12.3	--	--	3.7	1.1	2.9	13.6	--	--	4.0	1.1	3.1
Telephones	6.4	--	--	1.9	0.6	1.5	6.4	--	--	1.9	0.5	1.4
Water coolers	4.2	--	--	1.3	0.4	1.0	7.6	--	--	2.2	0.6	1.7
Ventilation fans	2.5	--	--	0.7	0.2	0.6	5.4	--	--	1.6	0.4	1.2
Portable electric spas	3.4	--	--	1.0	0.3	0.8	6.1	--	--	1.8	0.5	1.4
Hot food holding cabinets	2.2	--	--	0.7	0.2	0.5	4.8	--	--	1.4	0.4	1.1
Compressors	2.2	--	--	0.7	0.2	0.5	5.3	--	--	1.5	0.4	1.2
Total	271	828	5,655	119	24	107	297	1,599	9,965	160	24	152

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	19.5	39.5	293.8	no cost	0.0
Showerheads	10.8	22.0	164.1	no cost	0.0
Lawn spray sprinklers	38.2	72.1	472.2	7.9	1.1
Toilets	3.1	9.6	84.5	no cost	0.0
Computers and monitors	6.3	7.2	27.4	1.9	2.8
High CRI fluorescent lamps	6.7	2.4	12.5	1.4	3.6
Air purifiers	1.9	3.4	14.6	2.3	3.6
Pool pump replacement motors	0.9	0.0	4.7	6.6	1.0
Commercial fryers	1.8	4.2	17.5	2.3	4.4
Commercial dishwashers	1.2	3.2	20.0	9.1	1.2
Commercial steam cookers	1.0	2.5	16.2	10.0	1.0
Portable air conditioners	0.6	1.3	6.2	2.9	3.3
Urinals	1.0	2.5	17.9	no cost	0.0
Audio/video equipment	1.1	1.2	9.9	no cost	0.0
Uninterruptible power supplies	1.1	1.2	5.1	2.1	2.6
Telephones	0.6	0.6	5.0	no cost	0.0
Water coolers	0.3	0.6	4.8	no cost	0.0
Ventilation fans	0.3	0.7	4.8	no cost	0.0
Portable electric spas	0.4	0.8	5.7	no cost	0.0
Hot food holding cabinets	0.2	0.4	1.8	2.6	3.6
Compressors	0.1	0.3	1.4	2.6	3.9
Total	97	176	1,190	7.8	-

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: **Utah**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	567	6.7	22.7	477.8	47.5	487.4
Showerheads	405	4.7	10.8	334.9	33.9	340.7
Lawn spray sprinklers	--	--	65.6	--	--	--
Toilets	--	--	6.5	--	--	--
Computers and monitors	943	--	--	286.1	79.5	222.3
High CRI fluorescent lamps	830	--	--	253.2	72.6	206.1
Air purifiers	314	--	--	95.4	26.3	72.5
Pool pump replacement motors	78	--	--	23.8	6.6	18.1
Commercial fryers	9	4.3	--	197.7	0.8	229.5
Commercial dishwashers	41	1.0	1.4	56.6	3.4	61.3
Commercial steam cookers	72	0.4	1.2	39.2	6.0	37.3
Portable air conditioners	112	--	--	34.1	9.4	25.9
Urinals	--	--	2.0	--	--	--
Audio/video equipment	131	--	--	39.6	11.0	30.2
Uninterruptible power supplies	176	--	--	53.6	14.9	42.1
Telephones	86	--	--	26.0	7.2	20.4
Water coolers	84	--	--	25.3	7.0	19.8
Ventilation fans	54	--	--	16.4	4.5	12.5
Portable electric spas	68	--	--	20.5	5.7	15.6
Hot food holding cabinets	48	--	--	14.5	4.0	11.3
Compressors	50	--	--	15.2	4.2	11.9
Total	4,068	17	110	2,010	345	1,865

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.