

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: Wisconsin

	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	57.2	645	2,208	46.4	83.2	75.4	103.9	1,152	3,968	80.2	133.7	130.0
Showerheads	40.8	443	1,050	32.3	59.3	52.8	74.1	805	1,909	56.4	95.4	91.8
Lawn spray sprinklers	--	--	--	--	--	--	--	--	--	--	--	--
Toilets	--	--	543	--	--	--	--	--	1,473	--	--	--
Computers and monitors	159.8	--	--	47.7	232.5	117.2	179.0	--	--	47.7	230.3	122.1
High CRI fluorescent lamps	239.8	--	--	71.6	348.9	178.3	79.1	--	--	21.1	101.8	54.8
Air purifiers	42.4	--	--	12.7	61.6	30.5	69.3	--	--	18.5	89.2	45.8
Pool pump replacement motors	46.1	--	--	13.8	67.1	33.2	0.0	--	--	0.0	0.0	0.0
Commercial fryers	0.8	371	--	17.2	1.2	20.3	1.8	810	--	37.4	2.3	44.3
Commercial dishwashers	3.4	81	113	4.7	5.0	6.9	8.3	196	273	11.1	10.6	16.2
Commercial steam cookers	6.2	33	106	3.4	9.1	6.4	13.6	72	231	6.9	17.5	13.3
Portable air conditioners	16.9	--	--	5.1	24.6	12.2	32.3	--	--	8.6	41.5	21.4
Urinals	--	--	172	--	--	--	--	--	376	--	--	--
Audio/video equipment	24.9	--	--	7.4	36.2	17.9	24.9	--	--	6.6	32.0	16.5
Uninterruptible power supplies	29.6	--	--	8.8	43.1	22.0	32.8	--	--	8.7	42.2	22.8
Telephones	13.9	--	--	4.1	20.2	10.2	13.9	--	--	3.7	17.8	9.5
Water coolers	8.5	--	--	2.5	12.3	6.3	15.4	--	--	4.1	19.8	10.7
Ventilation fans	6.3	--	--	1.9	9.1	4.5	13.8	--	--	3.7	17.7	9.1
Portable electric spas	6.1	--	--	1.8	8.8	4.4	11.0	--	--	2.9	14.2	7.3
Hot food holding cabinets	4.2	--	--	1.2	6.0	3.1	9.1	--	--	2.4	11.6	6.3
Compressors	5.7	--	--	1.7	8.2	4.2	13.4	--	--	3.6	17.2	9.3
Total	712	1,573	4,193	284	1,037	606	696	3,036	8,231	324	895	631

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	40.3	81.1	605.8	no cost	0.0
Showerheads	22.9	46.3	345.9	no cost	0.0
Lawn spray sprinklers	--	--	--	--	--
Toilets	5.9	18.3	160.3	no cost	0.0
Computers and monitors	24.9	29.1	160.8	3.0	1.8
High CRI fluorescent lamps	33.1	11.8	128.2	2.3	2.3
Air purifiers	7.7	13.1	73.9	3.6	2.3
Pool pump replacement motors	8.4	0.0	47.7	10.6	0.6
Commercial fryers	3.2	7.7	30.2	2.2	4.7
Commercial dishwashers	2.4	6.4	40.1	9.6	1.2
Commercial steam cookers	2.3	5.5	36.0	11.5	0.9
Portable air conditioners	3.1	6.1	35.9	4.4	2.1
Urinals	1.9	4.7	33.3	no cost	0.0
Audio/video equipment	4.5	4.7	39.7	no cost	0.0
Uninterruptible power supplies	4.2	4.8	28.6	3.5	1.7
Telephones	2.1	2.2	18.3	no cost	0.0
Water coolers	1.2	2.2	16.6	no cost	0.0
Ventilation fans	1.1	2.6	19.1	no cost	0.0
Portable electric spas	1.1	2.1	16.0	no cost	0.0
Hot food holding cabinets	0.6	1.3	7.3	4.5	2.3
Compressors	0.6	1.4	7.6	4.4	2.7
Total	171	251	1,851	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: **Wisconsin**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Faucets	1,143	12.8	43.8	900.4	1,599.0	1,467.5
Showerheads	816	8.9	21.0	631.0	1,140.8	1,033.7
Lawn spray sprinklers	--	--	--	--	--	--
Toilets	--	--	12.5	--	--	--
Computers and monitors	2,315	--	--	651.6	3,302.0	1,653.3
High CRI fluorescent lamps	2,495	--	--	725.5	3,861.9	1,911.7
Air purifiers	797	--	--	222.9	1,118.4	551.3
Pool pump replacement motors	467	--	--	131.7	673.0	327.1
Commercial fryers	18	8.1	--	374.0	25.0	443.2
Commercial dishwashers	77	1.8	2.6	105.4	107.9	153.0
Commercial steam cookers	136	0.7	2.3	71.0	189.9	135.6
Portable air conditioners	348	--	--	97.0	485.5	240.0
Urinals	--	--	3.8	--	--	--
Audio/video equipment	331	--	--	93.5	475.4	231.0
Uninterruptible power supplies	425	--	--	119.8	606.7	308.1
Telephones	185	--	--	52.3	266.0	133.5
Water coolers	169	--	--	47.2	236.5	121.3
Ventilation fans	137	--	--	38.3	191.1	94.5
Portable electric spas	121	--	--	33.9	169.6	83.8
Hot food holding cabinets	91	--	--	25.3	126.3	64.6
Compressors	127	--	--	35.4	176.9	90.5
Total	10,199	32	86	4,356	14,752	9,044

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.