

## Appliance Standards Awareness Project

### 2024 State Appliance Standards Recommendations

#### Savings estimates for: Wisconsin

	Potential annual savings in 2030						Potential annual savings in 2040					
	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)
Commercial battery chargers	3.2	--	--	0.5	0.2	0.4	9.6	--	--	1.1	0.4	1.4
Commercial dishwashers	5.0	122	170	6.3	0.2	7.1	14.5	357	497	17.9	0.6	21.1
Commercial fryers	1.4	457	--	20.9	0.1	24.5	3.6	1,218	--	55.6	0.1	65.2
Commercial ovens	3.6	58	--	3.2	0.2	3.6	9.6	154	--	8.1	0.4	9.6
Commercial steam cookers	2.3	18	51	1.2	0.1	1.3	6.1	49	135	2.9	0.2	3.5
Faucets	19.6	153	626	10.1	1.0	10.8	43.6	337	1,385	20.4	1.8	24.4
Gas fireplaces	--	86	--	3.9	--	4.5	--	276	--	12.5	--	14.7
High CRI fluorescent lamps	32.8	--	--	5.2	1.6	4.4	11.7	--	--	1.4	0.5	1.7
Irrigation controllers	--	--	--	--	--	--	--	--	--	--	--	--
Portable electric spas	23.7	--	--	3.8	1.2	3.2	46.7	--	--	5.4	1.9	6.9
Residential ventilating fans	2.0	--	--	0.3	0.1	0.3	6.5	--	--	0.8	0.3	1.0
Showerheads	24.8	191	538	12.6	1.2	13.5	55.2	425	1,196	25.7	2.3	30.7
Spray sprinkler bodies	--	--	--	--	--	--	--	--	--	--	--	--
Toilets (water closets)	--	--	227	--	--	--	--	--	690	--	--	--
Urinals	--	--	50	--	--	--	--	--	134	--	--	--
Water coolers	16.5	--	--	2.6	0.8	2.2	36.6	--	--	4.2	1.5	5.4
<b>Total</b>	<b>135</b>	<b>1,084</b>	<b>1,661</b>	<b>71</b>	<b>7</b>	<b>76</b>	<b>244</b>	<b>2,816</b>	<b>4,037</b>	<b>156</b>	<b>10</b>	<b>186</b>

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water savings. The total potential water savings are thus smaller than the sum of the individual products.

## Savings estimates for: Wisconsin

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.3	0.8	5.9	1.9
Commercial dishwashers	3.9	12.8	107.7	1.2
Commercial fryers	3.4	10.0	58.3	3.6
Commercial ovens	0.8	2.3	3.4	7.5
Commercial steam cookers	1.1	3.3	29.0	1.0
Faucets	13.1	32.6	327.3	0.0
Gas fireplaces	0.7	2.6	20.8	1.4
High CRI fluorescent lamps	3.6	1.4	17.4	1.9
Irrigation controllers	--	--	--	--
Portable electric spas	3.3	6.6	57.9	0.8
Residential ventilating fans	0.3	0.9	8.3	0.0
Showerheads	12.9	31.9	319.1	0.0
Spray sprinkler bodies	--	--	--	--
Toilets (water closets)	3.3	11.6	144.8	0.0
Urinals	0.7	2.3	22.2	0.0
Water coolers	1.8	4.0	38.7	0.0
<b>Total</b>	<b>49</b>	<b>123</b>	<b>1,161</b>	<b>-</b>

Assuming a compliance date of 2026 for all the recommended standards. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2026 and 2050. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total savings. The totals are thus smaller than the sum of the individual products.

## Cumulative savings estimates for: Wisconsin

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Utility bill savings (million 2022\$)
Commercial battery chargers	177	--	--	23.1	7.8	26.9	14.7
Commercial dishwashers	267	6.6	9.1	332.7	11.9	389.6	234.6
Commercial fryers	69	23.1	--	1,058.1	3.1	1,240.0	186.8
Commercial ovens	183	2.9	--	156.9	8.2	183.5	41.8
Commercial steam cookers	115	0.9	2.6	57.0	5.2	66.6	62.9
Faucets	872	6.8	27.7	423.1	40.0	492.1	648.8
Gas fireplaces	--	5.0	--	226.4	--	265.3	45.9
High CRI fluorescent lamps	391	--	--	62.5	23.1	63.4	43.4
Irrigation controllers	--	--	--	--	--	--	--
Portable electric spas	952	--	--	128.4	44.1	145.9	130.3
Residential ventilating fans	118	--	--	15.3	5.2	17.9	16.2
Showerheads	1,104	8.5	23.9	533.3	50.7	620.3	632.6
Spray sprinkler bodies	--	--	--	--	--	--	--
Toilets (water closets)	--	--	14.4	--	--	--	247.6
Urinals	--	--	2.6	--	--	--	43.4
Water coolers	732	--	--	98.2	33.6	111.9	76.7
<b>Total</b>	<b>4,980</b>	<b>54</b>	<b>80</b>	<b>3,115</b>	<b>233</b>	<b>3,623</b>	<b>2,426</b>

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water and utility bill savings. The total potential water and utility bill savings are thus smaller than the sum of the individual products.