

## Appliance Standards Awareness Project

### 2023 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)
Air purifiers	81.1	--	--	25.4	17.8	31.2	132.6	--	--	38.7	26.1	51.0
Commercial dishwashers	3.7	90	126	5.2	0.8	6.1	8.8	216	301	12.4	1.7	14.8
Commercial fryers	1.4	465	--	21.5	0.3	25.2	3.0	1,015	--	46.9	0.6	55.1
Commercial ovens	3.7	60	--	3.9	0.8	4.5	8.2	131	--	8.3	1.6	10.1
Commercial steam cookers	2.4	19	53	1.6	0.5	1.9	5.2	41	115	3.4	1.0	4.2
Electric vehicle supply equipment	7.7	--	--	2.4	1.7	3.0	51.1	--	--	14.9	10.1	19.7
Faucets	48.1	373	1,530	32.0	10.6	38.3	87.5	677	2,777	56.2	17.2	69.6
Gas fireplaces	--	140	--	6.3	--	7.4	--	381	--	17.3	--	20.3
High CRI fluorescent lamps	38.9	--	--	12.2	8.5	14.0	9.4	--	--	2.7	1.9	3.6
Portable electric spas	31.4	--	--	9.9	6.9	12.1	52.9	--	--	15.4	10.4	20.3
Residential ventilating fans	6.7	--	--	2.1	1.5	2.6	18.2	--	--	5.3	3.6	7.0
Showerheads	41.6	321	902	27.6	9.1	33.0	75.6	583	1,639	48.5	14.9	60.1
Spray sprinkler bodies	--	--	--	--	--	--	--	--	--	--	--	--
Toilets (water closets)	--	--	338	--	--	--	--	--	899	--	--	--
Urinals	--	--	64	--	--	--	--	--	140	--	--	--
Water coolers	13.3	--	--	4.2	2.9	4.8	24.1	--	--	7.0	4.8	9.2
<b>Total</b>	<b>280</b>	<b>1,468</b>	<b>3,012</b>	<b>154</b>	<b>61</b>	<b>184</b>	<b>477</b>	<b>3,045</b>	<b>5,872</b>	<b>277</b>	<b>94</b>	<b>345</b>

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. 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.

## Savings estimates for: Wisconsin

	Potential annual utility bill savings (million 2021\$)		Net present value savings (million 2021\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	10.9	17.4	118.1	6.3	1.1
Commercial dishwashers	2.9	7.7	48.6	9.7	1.1
Commercial fryers	3.2	7.1	30.9	2.4	3.9
Commercial ovens	0.7	1.6	1.3	1.1	8.1
Commercial steam cookers	1.2	2.8	18.5	11.1	0.9
Electric vehicle supply equipment	1.0	6.7	40.9	no cost	0.0
Faucets	33.4	67.3	503.8	no cost	0.0
Gas fireplaces	1.2	3.3	20.2	8.3	1.4
High CRI fluorescent lamps	3.8	1.0	16.3	2.9	2.0
Portable electric spas	4.2	6.9	49.3	8.8	0.7
Residential ventilating fans	0.9	2.4	16.7	no cost	0.0
Showerheads	22.3	44.5	334.4	no cost	0.0
Spray sprinkler bodies	--	--	--	no cost	--
Toilets (water closets)	5.3	16.2	138.5	no cost	0.0
Urinals	1.0	2.5	17.9	no cost	0.0
Water coolers	1.3	2.2	17.4	no cost	0.0
<b>Total</b>	<b>93</b>	<b>190</b>	<b>1,373</b>	<b>18.2</b>	<b>-</b>

Assuming a compliance date of 2025 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 2025 and 2040. 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 2040 for the package of recommended standards divided by the present value of the total additional costs. 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.

## Cumulative savings estimates for: Wisconsin

	Potential cumulative savings through 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air purifiers	1,525	--	--	458.1	309.4	581.4
Commercial dishwashers	83	2.0	2.8	116.9	16.7	139.6
Commercial fryers	30	10.2	--	469.2	6.2	550.8
Commercial ovens	82	1.3	--	83.9	16.5	100.8
Commercial steam cookers	52	0.4	1.2	34.2	10.5	41.7
Electric vehicle supply equipment	290	--	--	86.4	58.2	110.9
Faucets	962	7.5	30.6	626.6	195.0	762.7
Gas fireplaces	--	3.2	--	146.9	--	172.2
High CRI fluorescent lamps	383	--	--	115.4	78.8	146.0
Portable electric spas	600	--	--	180.0	121.6	228.5
Residential ventilating fans	155	--	--	46.2	31.2	59.0
Showerheads	832	6.4	18.0	540.4	168.5	657.9
Spray sprinkler bodies	--	--	--	--	--	--
Toilets (water closets)	--	--	7.7	--	--	--
Urinals	--	--	1.4	--	--	--
Water coolers	265	--	--	79.6	53.7	101.1
<b>Total</b>	<b>5,259</b>	<b>31</b>	<b>62</b>	<b>2,984</b>	<b>1,066</b>	<b>3,653</b>

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. 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.