

Appliance Standards Awareness Project

2025 State Appliance Standards Recommendations

Savings estimates for: [Minnesota](#)

	Potential annual savings in 2030						Potential annual savings in 2040					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)
Commercial battery chargers	1.6	--	--	0.3	0.1	0.2	5.9	--	--	0.7	0.3	0.9
Commercial dishwashers	5.4	69	96	4.0	0.3	4.4	15.3	196	273	10.8	0.7	12.7
Commercial fryers	0.3	221	--	10.1	0.02	11.8	1.1	759	--	34.5	0.05	40.3
Commercial ovens	3.1	23	--	1.6	0.2	1.7	10.8	78	--	4.9	0.5	5.8
Commercial steam cookers	1.0	10	25	0.6	0.1	0.7	3.5	33	85	1.9	0.1	2.3
Faucets	22.7	163	796	11.2	1.2	11.8	64.7	464	2,271	28.9	2.8	34.4
Gas fireplaces	--	122	--	5.5	--	6.4	--	469	--	21.3	--	24.8
High CRI fluorescent lamps	17.3	--	--	2.9	0.9	2.5	8.7	--	--	1.1	0.4	1.3
Portable electric spas	45.6	--	--	7.7	2.4	6.5	114.1	--	--	13.9	4.9	17.3
Residential ventilating fans	1.6	--	--	0.3	0.1	0.2	6.2	--	--	0.8	0.3	0.9
Server power supplies	41.8	--	--	7.1	2.2	5.9	59.7	--	--	7.3	2.5	9.1
Showerheads	16.9	121	405	8.3	0.9	8.8	48.3	346	1,158	21.6	2.1	25.6
Spray sprinkler bodies	--	--	301	--	--	--	--	--	861	--	--	--
Toilets (water closets)	--	--	198	--	--	--	--	--	740	--	--	--
Urinals	--	--	37	--	--	--	--	--	126	--	--	--
Water coolers	12.4	--	--	2.1	0.7	1.8	35.5	--	--	4.3	1.5	5.4
Total	170	728	1,858	62	9	63	374	2,345	5,514	152	16	181

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Savings estimates for: Minnesota

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.5	3.5	3.3
Commercial dishwashers	2.8	8.9	78.0	0.9
Commercial fryers	1.8	6.8	43.5	3.2
Commercial ovens	0.5	1.9	6.4	6.0
Commercial steam cookers	0.6	2.4	20.8	0.7
Faucets	18.2	58.5	576.3	0.0
Gas fireplaces	1.1	4.7	39.8	1.4
High CRI fluorescent lamps	2.0	1.1	12.4	1.7
Portable electric spas	6.3	16.2	147.0	0.6
Residential ventilating fans	0.2	0.9	8.3	0.0
Server power supplies	4.8	6.9	59.5	0.9
Showerheads	10.3	33.1	325.3	0.0
Spray sprinkler bodies	5.1	16.9	155.4	0.7
Toilets (water closets)	3.4	14.6	182.9	0.0
Urinals	0.6	2.5	23.7	0.0
Water coolers	1.4	4.1	39.1	0.0
Total	59	180	1,722	-

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Cumulative savings estimates for: Minnesota

	Potential cumulative savings through 2050						
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	109	--	--	14.6	4.9	16.9	9.6
Commercial dishwashers	291	3.7	5.2	209.1	13.6	242.6	167.9
Commercial fryers	19	13.7	--	622.0	0.9	726.0	120.2
Commercial ovens	194	1.4	--	90.0	8.9	104.5	33.8
Commercial steam cookers	62	0.6	1.5	35.4	2.9	41.1	42.7
Faucets	1,230	8.8	43.1	569.2	57.4	658.2	1113.7
Gas fireplaces	--	8.6	--	389.9	--	455.2	84.3
High CRI fluorescent lamps	248	--	--	40.1	14.1	39.9	28.9
Portable electric spas	2,238	--	--	311.5	105.6	349.6	308.0
Residential ventilating fans	113	--	--	15.1	5.0	17.5	15.5
Server power supplies	1,284	--	--	182.7	62.3	201.0	143.7
Showerheads	918	6.6	22.0	424.4	42.9	490.8	628.4
Spray sprinkler bodies	--	--	16.4	--	--	--	325.3
Toilets (water closets)	--	--	15.1	--	--	--	306.5
Urinals	--	--	2.3	--	--	--	45.4
Water coolers	674	--	--	93.0	31.5	105.2	75.3
Total	7,381	43	106	2,997	350	3,448	3,449

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.