

Appliance Standards Awareness Project

2025 State Appliance Standards Recommendations

Savings estimates for: Iowa

	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	1.8	--	--	0.3	0.1	0.3	6.8	--	--	0.8	0.3	1.0
Commercial dishwashers	3.0	38	53	2.3	0.2	2.5	8.6	110	153	6.0	0.4	7.0
Commercial fryers	0.2	124	--	5.6	0.01	6.6	0.6	424	--	19.3	0.03	22.5
Commercial ovens	1.8	13	--	0.9	0.1	0.9	6.0	44	--	2.7	0.3	3.2
Commercial steam cookers	0.6	5	14	0.3	0.03	0.4	1.9	18	48	1.1	0.1	1.3
Faucets	10.6	100	444	6.4	0.6	6.8	30.4	286	1,267	16.6	1.3	19.5
Gas fireplaces	--	30	--	1.4	--	1.6	--	116	--	5.3	--	6.1
High CRI fluorescent lamps	9.5	--	--	1.6	0.5	1.3	4.9	--	--	0.6	0.2	0.7
Portable electric spas	22.6	--	--	3.9	1.2	3.2	56.5	--	--	6.9	2.3	8.1
Residential ventilating fans	0.9	--	--	0.2	0.05	0.1	3.5	--	--	0.4	0.1	0.5
Server power supplies	23.0	--	--	3.9	1.2	3.2	32.8	--	--	4.0	1.4	4.7
Showerheads	7.9	75	226	4.7	0.4	5.1	22.7	213	646	12.4	0.9	14.5
Spray sprinkler bodies	--	--	313	--	--	--	--	--	894	--	--	--
Toilets (water closets)	--	--	111	--	--	--	--	--	413	--	--	--
Urinals	--	--	21	--	--	--	--	--	70	--	--	--
Water coolers	6.9	--	--	1.2	0.4	1.0	19.6	--	--	2.4	0.8	2.8
Total	89	385	1,182	33	5	33	194	1,211	3,491	78	8	92

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: Iowa

	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	3.4	3.2
Commercial dishwashers	1.5	4.9	43.4	0.9
Commercial fryers	1.0	4.0	25.9	3.0
Commercial ovens	0.3	1.1	3.4	6.3
Commercial steam cookers	0.3	1.3	11.6	0.8
Faucets	10.0	32.3	318.4	0.0
Gas fireplaces	0.3	1.2	10.7	1.3
High CRI fluorescent lamps	1.0	0.6	6.2	1.9
Portable electric spas	3.0	8.0	71.8	0.7
Residential ventilating fans	0.1	0.5	4.8	0.0
Server power supplies	2.4	3.6	29.9	1.0
Showerheads	5.7	18.2	179.1	0.0
Spray sprinkler bodies	5.3	17.6	161.5	0.7
Toilets (water closets)	1.9	8.1	102.1	0.0
Urinals	0.4	1.4	13.3	0.0
Water coolers	0.7	2.1	20.3	0.0
Total	34	105	1,006	-

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: Iowa

	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	125	--	--	16.5	5.6	18.4	9.1
Commercial dishwashers	163	2.1	2.9	116.5	7.5	134.3	93.5
Commercial fryers	11	7.6	--	347.6	0.5	405.7	70.2
Commercial ovens	109	0.8	--	50.1	4.9	57.5	18.5
Commercial steam cookers	35	0.3	0.9	19.7	1.6	22.7	23.8
Faucets	578	5.4	24.1	324.8	26.8	372.9	615.4
Gas fireplaces	--	2.1	--	96.3	--	112.4	22.4
High CRI fluorescent lamps	137	--	--	21.9	7.7	21.2	15.0
Portable electric spas	1,108	--	--	152.1	51.9	164.2	152.4
Residential ventilating fans	64	--	--	8.5	2.9	9.4	8.9
Server power supplies	705	--	--	99.0	33.9	104.9	73.8
Showerheads	431	4.1	12.3	242.2	20.0	278.0	346.2
Spray sprinkler bodies	--	--	17.0	--	--	--	338.0
Toilets (water closets)	--	--	8.4	--	--	--	171.1
Urinals	--	--	1.3	--	--	--	25.4
Water coolers	373	--	--	50.7	17.3	55.1	39.0
Total	3,839	22	67	1,546	181	1,757	2,023

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.