Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: North Dakota

	Potential annual savings in 2040								
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (thousand metric tons)	Summer peak demand (MW)	Winter peak demand (MW)	Utility bills (million 2025$)
Commercial & industrial fans	121.3	--	--	0.2	0.0	6.2	16.9	16.4	12.1
Commercial battery chargers	3.1	--	--	0.01	0.0	0.2	0.4	0.4	0.3
Commercial dishwashers	5.3	23	34	1.0	0.01	1.5	0.3	0.9	1.4
Commercial fryers	0.1	99	--	4.5	0.03	5.3	0.02	0.03	0.7
Commercial ovens	1.4	10	--	0.5	0.003	0.6	0.2	0.3	0.2
Commercial steam cookers	0.5	4	11	0.2	0.001	0.3	0.1	0.1	0.3
Computer server power supplies	8.0	--	--	0.01	0.0	0.4	0.9	0.9	0.8
Electric motors	141.3	--	--	0.2	0.0	7.2	21.6	20.5	14.7
Faucets	5.9	28	146	1.3	0.01	1.8	0.8	1.3	4.2
Gas fireplaces	--	39	--	1.8	0.01	2.0	--	--	0.4
High CRI fluorescent lamps	3.3	--	--	0.01	0.0	0.2	0.6	0.5	0.3
Portable electric spas	18.5	--	--	0.03	0.0	0.9	1.2	1.1	2.8
Showerheads	13.2	45	218	2.1	0.01	3.1	1.9	2.9	7.0
Spray sprinkler bodies	--	--	1,280	--	--	--	--	--	12.4
Toilets (water closets)	--	--	149	--	--	--	--	--	3.1
Urinals	--	--	15	--	--	--	--	--	0.3
Water coolers	16.7	--	--	0.03	0.0	0.9	1.9	1.9	1.7
Total	**339**	**249**	**1,853**	**12**	**0.1**	**30**	**47**	**47**	**63**

Assuming a compliance date of 2029 for all the products. We have not estimated savings for commercial hot-food holding cabinets, computers and computer monitors, or residential ventilating fans due to insufficient data on the current market.

Cumulative savings estimates through 2050 for: North Dakota

	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 bills (million 2025$)	Payback period (years)
Commercial & industrial fans	2,338.3	--	--	126.7	11.4	150.8	229.4	1.5
Commercial battery chargers	58.6	--	--	2.4	0.2	3.6	5.8	3.6
Commercial dishwashers	96.0	0.4	0.6	22.8	0.5	27.8	25.6	2.3
Commercial fryers	2.4	1.7	--	75.4	0.5	88.0	11.7	3.8
Commercial ovens	23.6	0.2	--	8.8	0.1	10.5	3.5	8.5
Commercial steam cookers	7.6	0.1	0.2	3.6	0.05	4.3	5.2	0.8
Computer server power supplies	155.9	--	--	11.0	1.1	10.8	15.0	3.9
Electric motors	2,523.9	--	--	144.2	12.2	163.2	256.5	1.6
Faucets	100.9	0.5	2.5	28.3	0.6	33.4	73.1	0.0
Gas fireplaces	--	0.7	--	33.2	0.2	38.8	7.2	1.4
High CRI fluorescent lamps	71.2	--	--	9.4	1.2	6.1	6.7	2.6
Portable electric spas	326.3	--	--	18.2	1.5	21.0	49.6	1.2
Showerheads	224.1	0.8	3.7	46.4	1.2	55.0	120.8	0.0
Spray sprinkler bodies	--	--	21.8	--	--	--	216.0	1.0
Toilets (water closets)	--	--	3.0	--	--	--	65.9	0.0
Urinals	--	--	0.2	--	--	--	5.3	0.0
Water coolers	284.3	--	--	14.5	1.2	18.0	27.7	0.0
Total	**6,213**	**4**	**32**	**545**	**32**	**631**	**1,125**	**–**

Assuming a compliance date of 2029 for all the products. We have not estimated savings for commercial hot-food holding cabinets, computers and computer monitors, or residential ventilating fans due to insufficient data on the current market.