Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: South 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	37.8	--	--	0.0	0.0	2.2	5.9	5.7	4.9
Commercial battery chargers	0.8	--	--	0.0	0.0	0.05	0.1	0.1	0.1
Commercial dishwashers	6.2	27	40	1.2	0.01	1.8	0.5	0.7	1.9
Commercial fryers	0.2	115	--	5.2	0.03	6.1	0.02	0.03	0.9
Commercial ovens	1.6	12	--	0.5	0.003	0.7	0.2	0.3	0.3
Commercial steam cookers	0.5	5	13	0.2	0.001	0.3	0.1	0.1	0.4
Computer server power supplies	3.8	--	--	0.0	0.0	0.2	0.4	0.4	0.6
Electric motors	59.6	--	--	0.0	0.0	3.4	9.5	9.2	8.6
Faucets	6.2	37	173	1.7	0.01	2.3	0.9	1.3	5.0
Gas fireplaces	--	59	--	2.7	0.02	3.1	--	--	0.6
High CRI fluorescent lamps	1.7	--	--	0.0	0.0	0.1	0.3	0.3	0.3
Portable electric spas	14.1	--	--	0.0	0.0	0.8	0.9	0.8	2.4
Showerheads	13.8	62	258	2.8	0.02	4.1	1.9	3.0	8.4
Spray sprinkler bodies	--	--	705	--	--	--	--	--	6.8
Toilets (water closets)	--	--	176	--	--	--	--	--	3.7
Urinals	--	--	17	--	--	--	--	--	0.4
Water coolers	8.0	--	--	0.0	0.0	0.5	0.9	0.9	1.2
Total	**154**	**317**	**1,381**	**14**	**0.1**	**26**	**22**	**23**	**46**

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: South 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	733.2	--	--	32.5	2.6	50.9	94.6	1.4
Commercial battery chargers	15.5	--	--	0.6	0.04	1.0	1.9	3.7
Commercial dishwashers	111.5	0.5	0.7	25.8	0.4	32.9	35.0	2.0
Commercial fryers	2.7	1.9	--	87.5	0.6	102.2	14.6	3.6
Commercial ovens	27.4	0.2	--	10.0	0.1	12.3	5.4	6.5
Commercial steam cookers	8.8	0.1	0.2	4.1	0.05	5.0	6.5	0.7
Computer server power supplies	74.4	--	--	4.5	0.4	5.5	10.5	2.7
Electric motors	1,062.1	--	--	52.0	4.0	74.3	150.1	1.2
Faucets	106.0	0.7	2.9	34.8	0.5	42.5	87.4	0.0
Gas fireplaces	--	1.1	--	50.4	0.3	58.8	11.3	1.4
High CRI fluorescent lamps	36.4	--	--	4.1	0.5	3.2	5.0	1.9
Portable electric spas	248.0	--	--	11.9	0.9	17.3	42.4	1.1
Showerheads	235.2	1.1	4.4	58.3	1.1	72.2	144.9	0.0
Spray sprinkler bodies	--	--	12.0	--	--	--	118.9	1.0
Toilets (water closets)	--	--	3.6	--	--	--	77.9	0.0
Urinals	--	--	0.3	--	--	--	6.1	0.0
Water coolers	135.7	--	--	6.0	0.4	9.3	19.3	0.0
Total	**2,797**	**6**	**24**	**382**	**12**	**488**	**832**	**–**

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.