Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: Massachusetts

	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	122.7	--	--	10.6	0.0	9.1	26.4	17.7	24.6
Commercial battery chargers	2.2	--	--	0.2	0.0	0.2	0.3	0.3	0.4
Commercial dishwashers	12.5	--	--	1.1	0.0	0.9	1.0	4.7	2.6
Commercial ovens	2.6	52	--	2.6	0.01	2.9	0.2	0.7	1.5
Computer server power supplies	9.9	--	--	0.9	0.0	0.7	1.1	1.1	2.1
Electric motors	264.1	--	--	22.9	0.0	19.6	51.4	36.4	61.3
Gas fireplaces	--	112	--	5.1	0.03	5.9	--	--	2.6
Total	**414**	**164**	--	**43**	**0.05**	**39**	**80**	**61**	**95**

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: Massachusetts

	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	2,394.4	--	--	208	0.0	177.9	489.1	0.9
Commercial battery chargers	40.4	--	--	3	0.0	3.0	7.9	2.6
Commercial dishwashers	226.2	--	--	20	0.0	16.7	48.5	**
Commercial ovens	43.4	0.9	--	43	0.2	48.8	25.5	**
Computer server power supplies	192.7	--	--	17	0.0	14.8	40.9	1.5
Electric motors	4,705.2	--	--	412	0.0	354.5	1,109.2	0.6
Gas fireplaces	--	2.1	--	96	0.6	112.5	49.5	0.6
Total	**7,602**	**3**	--	**799**	**1**	**728**	**1,771**	–

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.

**Massachusetts has existing standards for commercial dishwashers and commercial ovens. We are recommending improved standards for these products; however, we did not estimate payback period due to insufficient data on the incremental product cost.