Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: District of Columbia

	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	26.9	--	--	1.9	0.0	5.2	6.8	3.7	5.5
Commercial battery chargers	0.3	--	--	0.02	0.0	0.1	0.0	0.0	0.1
Commercial dishwashers	1.2	--	--	0.1	0.0	0.2	0.1	0.2	0.3
Commercial ovens	1.2	9	--	0.5	0.003	0.7	0.1	0.2	0.4
Computer server power supplies	2.4	--	--	0.2	0.0	0.5	0.3	0.3	0.5
Electric motors	56.2	--	--	4.1	0.0	10.9	12.0	6.9	11.8
Gas fireplaces	--	6	--	0.3	0.002	0.3	--	--	0.1
Total	**88**	**15**	--	**7**	**0.004**	**18**	**19**	**11**	**19**

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: District of Columbia

	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	530.0	--	--	36.7	0.12	112.5	107.5	1.1
Commercial battery chargers	6.1	--	--	0.4	0.001	1.3	1.2	3.7
Commercial dishwashers	22.3	--	--	1.5	0.005	4.7	4.6	**
Commercial ovens	20.8	0.2	--	8.3	0.05	12.4	6.9	3.4
Computer server power supplies	46.3	--	--	3.3	0.02	9.9	9.5	1.5
Electric motors	1,002.0	--	--	70.3	0.28	212.8	209.8	0.7
Gas fireplaces	--	0.1	--	4.9	0.03	5.7	2.0	0.8
Total	**1,628**	**0.3**	**–**	**125**	**1**	**359**	**342**	**–**

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.

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