Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: Virginia

	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	388.4	--	--	28.4	6.1	75.6	85.4	52.6	37.0
Commercial battery chargers	6.3	--	--	0.5	0.1	1.2	0.7	0.7	0.6
Commercial dishwashers	58.8	253	378	15.8	1.0	24.8	4.8	3.4	16.0
Commercial fryers	1.6	1,100	--	50.0	0.3	58.5	0.3	0.3	14.2
Commercial ovens	15.6	113	--	6.3	0.3	9.0	2.8	2.5	2.9
Commercial steam cookers	5.0	48	123	2.5	0.1	3.5	0.9	0.8	3.4
Computer server power supplies	28.5	--	--	2.1	0.4	5.5	3.3	3.3	2.7
Electric motors	703.3	--	--	51.4	11.1	137.0	149.0	91.7	73.8
Faucets	73.4	281	1,624	18.1	1.2	29.2	11.2	11.8	46.9
Gas fireplaces	--	515	--	23.3	0.1	27.2	--	--	9.5
High CRI fluorescent lamps	21.0	--	--	1.5	0.3	4.1	3.9	1.1	2.2
Portable electric spas	48.1	--	--	3.5	0.8	9.4	3.6	3.7	7.6
Showerheads	162.9	429	2,424	31.4	2.7	54.4	24.9	26.2	79.4
Spray sprinkler bodies	--	--	14,525	--	--	--	--	--	115.0
Toilets (water closets)	--	--	1,662	--	--	--	--	--	31.3
Urinals	--	--	162	--	--	--	--	--	3.0
Water coolers	126.1	--	--	9.2	2.0	24.6	14.4	14.4	12.1
Total	**1,639**	**2,739**	**20,897**	**244**	**27**	**464**	**305**	**212**	**457**

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: Virginia

	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	7,599.5	--	--	530.2	58.9	1,620.8	722.6	2.0
Commercial battery chargers	114.3	--	--	8.0	0.9	24.3	10.8	5.9
Commercial dishwashers	1,062.1	4.6	6.8	281.5	9.8	467.7	291.7	2.1
Commercial fryers	26.1	18.4	--	834.3	5.5	977.4	234.6	2.3
Commercial ovens	261.2	1.9	--	103.8	2.7	155.3	48.7	6.1
Commercial steam cookers	83.7	0.8	2.1	42.0	0.9	60.0	57.9	0.8
Computer server power supplies	555.3	--	--	39.4	4.4	119.9	53.0	3.2
Electric motors	12,534.5	--	--	880.9	99.6	2,674.8	1,313.8	1.3
Faucets	1,247.2	5.1	27.7	317.8	11.5	534.3	815.1	0.0
Gas fireplaces	--	9.7	--	441.3	2.8	515.2	181.6	0.8
High CRI fluorescent lamps	442.7	--	--	32.7	3.8	98.6	44.9	2.1
Portable electric spas	848.0	--	--	59.6	6.8	180.9	134.7	1.2
Showerheads	2,768.8	7.3	41.2	524.6	24.3	975.0	1,368.7	0.0
Spray sprinkler bodies	--	--	246.9	--	--	--	1,999.6	1.3
Toilets (water closets)	--	--	33.8	--	--	--	660.8	0.0
Urinals	--	--	2.7	--	--	--	52.3	0.0
Water coolers	2,144.0	--	--	150.2	17.2	456.1	204.4	0.0
Total	**29,688**	**48**	**361**	**4,246**	**249**	**8,860**	**8,196**	**–**

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