Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: North Carolina

	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	329.3	--	--	13.8	24.6	38.4	59.3	43.7	32.4
Commercial battery chargers	7.1	--	--	0.3	0.5	0.8	0.8	0.8	0.7
Commercial dishwashers	73.7	318	474	17.5	5.6	25.4	5.8	4.0	22.0
Commercial fryers	2.0	1,379	--	62.6	0.5	73.2	0.3	0.3	21.5
Commercial ovens	19.6	142	--	7.2	1.5	9.8	3.2	3.3	4.4
Commercial steam cookers	6.3	60	155	3.0	0.5	3.9	1.0	1.0	4.5
Computer server power supplies	16.5	--	--	0.7	1.2	1.9	1.9	1.9	1.8
Electric motors	567.5	--	--	23.8	42.4	66.1	101.8	74.4	64.2
Faucets	112.9	284	2,130	17.6	8.5	28.2	15.8	18.6	61.1
Gas fireplaces	--	683	--	31.0	0.2	36.2	--	--	13.1
High CRI fluorescent lamps	14.0	--	--	0.6	1.0	1.6	2.4	0.8	1.6
Portable electric spas	55.8	--	--	2.3	4.2	6.5	4.1	4.3	7.9
Showerheads	250.6	388	3,181	28.1	18.8	49.7	35.2	41.2	102.7
Spray sprinkler bodies	--	--	14,080	--	--	--	--	--	111.4
Toilets (water closets)	--	--	2,165	--	--	--	--	--	40.7
Urinals	--	--	203	--	--	--	--	--	3.8
Water coolers	73.1	--	--	3.1	5.5	8.5	8.3	8.3	8.1
Total	**1,528**	**3,254**	**22,386**	**212**	**115**	**350**	**240**	**203**	**502**

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 Carolina

	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	6,390.3	--	--	267.4	406.5	930.7	633.9	1.7
Commercial battery chargers	131.1	--	--	5.4	7.7	18.9	12.1	4.4
Commercial dishwashers	1,331.5	5.7	8.6	315.3	80.3	495.4	402.7	1.9
Commercial fryers	32.7	23.0	--	1,045.0	8.7	1,223.0	357.0	1.9
Commercial ovens	327.4	2.4	--	120.8	21.0	172.3	72.7	5.4
Commercial steam cookers	104.9	1.0	2.6	49.7	6.8	68.0	76.9	0.7
Computer server power supplies	322.0	--	--	13.9	24.7	47.7	35.5	3.0
Electric motors	10,116.0	--	--	426.9	698.9	1,468.8	1,150.5	1.3
Faucets	1,919.2	5.2	36.3	317.0	127.6	553.2	1,065.7	0.0
Gas fireplaces	--	12.9	--	585.9	3.7	683.9	249.4	0.8
High CRI fluorescent lamps	285.8	--	--	13.3	32.6	44.3	32.5	2.2
Portable electric spas	985.0	--	--	41.5	67.4	142.9	141.0	1.5
Showerheads	4,260.6	6.6	54.1	477.1	281.7	963.4	1,778.3	0.0
Spray sprinkler bodies	--	--	239.4	--	--	--	1,938.4	1.3
Toilets (water closets)	--	--	44.0	--	--	--	862.0	0.0
Urinals	--	--	3.4	--	--	--	65.6	0.0
Water coolers	1,243.0	--	--	52.1	81.6	179.4	137.8	0.0
Total	**27,450**	**57**	**388**	**3,731**	**1,849**	**6,992**	**9,012**	**–**

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