

Appliance Standards Awareness Project

2025 State Appliance Standards Recommendations

Savings estimates for: North Carolina

	Potential annual savings in 2030						Potential annual savings in 2040					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)
Commercial battery chargers	2.4	--	--	0.1	0.1	0.4	8.8	--	--	0.2	0.3	1.2
Commercial dishwashers	10.1	130	180	6.3	0.3	8.4	28.9	370	516	17.5	1.0	23.5
Commercial fryers	0.6	418	--	19.0	0.02	22.2	2.0	1,434	--	65.0	0.1	76.1
Commercial ovens	5.9	43	--	2.2	0.2	3.2	20.4	147	--	7.2	0.7	10.6
Commercial steam cookers	1.9	18	47	0.9	0.1	1.2	6.5	62	161	3.0	0.2	4.2
Faucets	78.6	122	1,460	8.7	2.1	18.3	224.6	347	4,165	21.6	7.7	48.8
Gas fireplaces	--	208	--	9.4	--	11.0	--	802	--	36.4	--	42.5
High CRI fluorescent lamps	30.5	--	--	1.2	0.8	4.6	15.5	--	--	0.4	0.5	2.1
Portable electric spas	55.1	--	--	2.2	1.5	8.3	137.7	--	--	3.6	4.7	18.6
Residential ventilating fans	2.9	--	--	0.1	0.1	0.4	11.2	--	--	0.3	0.4	1.5
Server power supplies	43.0	--	--	1.7	1.1	6.5	61.4	--	--	1.6	2.1	8.3
Showerheads	58.7	91	744	6.5	1.6	13.6	167.7	259	2,125	16.1	5.8	36.4
Spray sprinkler bodies	--	--	1,720	--	--	--	--	--	4,915	--	--	--
Toilets (water closets)	--	--	367	--	--	--	--	--	1,369	--	--	--
Urinals	--	--	69	--	--	--	--	--	238	--	--	--
Water coolers	27.1	--	--	1.1	0.7	4.1	77.5	--	--	2.0	2.7	10.5
Total	317	1,030	4,587	59	8	102	762	3,422	13,488	175	26	284

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Savings estimates for: [North Carolina](#)

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.2	0.6	2.8	5.2
Commercial dishwashers	5.0	15.9	139.1	1.0
Commercial fryers	4.5	16.8	120.4	2.3
Commercial ovens	0.9	3.4	10.3	6.3
Commercial steam cookers	1.1	4.1	36.0	0.8
Faucets	33.0	106.8	1,052.9	0.0
Gas fireplaces	3.3	13.7	125.7	0.8
High CRI fluorescent lamps	2.4	1.5	13.6	2.3
Portable electric spas	6.1	16.5	143.3	0.9
Residential ventilating fans	0.3	1.3	13.0	0.0
Server power supplies	3.3	5.1	39.8	1.2
Showerheads	19.3	62.2	612.5	0.0
Spray sprinkler bodies	26.5	87.2	792.3	0.8
Toilets (water closets)	5.7	24.3	304.0	0.0
Urinals	1.1	4.2	40.4	0.0
Water coolers	2.1	6.4	62.1	0.0
Total	115	370	3,508	-

Assuming a compliance date of 2027 for all the recommended standards. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Cumulative savings estimates 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 bill savings (million 2023\$)
Commercial battery chargers	163	--	--	4.2	4.2	19.6	10.8
Commercial dishwashers	550	7.0	9.8	333.9	14.8	440.2	301.0
Commercial fryers	37	25.8	--	1170.5	1.0	1369.8	299.8
Commercial ovens	367	2.7	--	129.9	9.7	185.0	60.3
Commercial steam cookers	118	1.1	2.9	53.9	3.1	73.6	74.5
Faucets	4,268	6.6	79.1	415.2	114.7	876.1	2034.0
Gas fireplaces	--	14.7	--	666.7	--	778.3	250.9
High CRI fluorescent lamps	438	--	--	15.5	14.0	63.2	37.5
Portable electric spas	2,701	--	--	74.3	73.2	335.7	318.3
Residential ventilating fans	205	--	--	5.3	5.3	24.6	24.3
Server power supplies	1,321	--	--	38.0	36.4	167.7	106.8
Showerheads	3,185	4.9	40.4	309.2	85.6	653.0	1182.8
Spray sprinkler bodies	--	--	93.4	--	--	--	1673.6
Toilets (water closets)	--	--	27.9	--	--	--	509.9
Urinals	--	--	4.3	--	--	--	77.2
Water coolers	1,472	--	--	39.9	39.6	181.6	119.4
Total	14,824	63	258	3,257	402	5,168	7,081

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.