

Appliance Standards Awareness Project

2025 State Appliance Standards Recommendations

Savings estimates for: Tennessee

	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	1.9	--	--	0.2	0.3	0.5	7.1	--	--	0.2	0.7	1.2
Commercial dishwashers	6.7	85	119	4.4	1.1	6.4	19.0	244	339	11.5	1.8	16.2
Commercial fryers	0.4	275	--	12.5	0.1	14.7	1.3	943	--	42.8	0.1	50.1
Commercial ovens	3.9	28	--	1.6	0.6	2.6	13.4	97	--	4.7	1.3	7.5
Commercial steam cookers	1.3	12	31	0.6	0.2	1.0	4.3	41	106	2.0	0.4	2.9
Faucets	52.1	83	973	8.1	8.3	19.1	148.9	235	2,775	14.6	14.2	38.7
Gas fireplaces	--	116	--	5.2	--	6.1	--	446	--	20.2	--	23.6
High CRI fluorescent lamps	20.9	--	--	1.7	3.3	5.9	10.6	--	--	0.3	1.0	1.9
Portable electric spas	38.0	--	--	3.1	6.0	10.7	94.9	--	--	2.5	9.0	16.7
Residential ventilating fans	1.9	--	--	0.2	0.3	0.5	7.4	--	--	0.2	0.7	1.3
Server power supplies	27.6	--	--	2.3	4.4	7.8	39.5	--	--	1.0	3.8	6.9
Showerheads	38.9	61	496	6.0	6.2	14.2	111.1	175	1,416	10.9	10.6	28.8
Spray sprinkler bodies	--	--	2,071	--	--	--	--	--	5,917	--	--	--
Toilets (water closets)	--	--	244	--	--	--	--	--	909	--	--	--
Urinals	--	--	46	--	--	--	--	--	157	--	--	--
Water coolers	19.7	--	--	1.6	3.1	5.6	56.2	--	--	1.5	5.4	9.9
Total	213	660	3,978	48	34	95	514	2,181	11,619	113	49	206

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: Tennessee

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.4	2.0	5.5
Commercial dishwashers	3.3	10.5	92.3	1.0
Commercial fryers	2.7	10.3	71.6	2.5
Commercial ovens	0.6	2.4	8.0	6.2
Commercial steam cookers	0.7	2.7	24.0	0.8
Faucets	21.1	68.4	675.2	0.0
Gas fireplaces	1.3	5.5	49.2	1.1
High CRI fluorescent lamps	1.9	1.1	11.2	2.1
Portable electric spas	3.8	10.4	89.2	1.0
Residential ventilating fans	0.2	0.8	7.9	0.0
Server power supplies	2.5	3.9	32.2	1.1
Showerheads	12.2	39.4	388.4	0.0
Spray sprinkler bodies	31.9	105.0	953.9	0.8
Toilets (water closets)	3.8	16.1	202.0	0.0
Urinals	0.7	2.8	26.6	0.0
Water coolers	1.8	5.5	53.7	0.0
Total	89	285	2,687	-

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: Tennessee

	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	130	--	--	4.3	13.4	24.0	8.0
Commercial dishwashers	362	4.6	6.4	222.2	38.0	312.9	199.6
Commercial fryers	24	17.0	--	770.0	2.5	902.5	182.9
Commercial ovens	241	1.7	--	87.1	25.0	137.1	41.9
Commercial steam cookers	77	0.7	1.9	36.0	8.0	53.4	49.6
Faucets	2,829	4.5	52.7	299.9	297.3	768.5	1304.4
Gas fireplaces	--	8.2	--	370.8	--	432.9	101.1
High CRI fluorescent lamps	300	--	--	15.4	39.1	67.5	28.8
Portable electric spas	1,862	--	--	65.4	197.8	353.2	200.0
Residential ventilating fans	136	--	--	4.4	13.9	24.9	14.7
Server power supplies	848	--	--	32.5	94.0	166.5	81.6
Showerheads	2,111	3.3	26.9	223.4	221.9	573.1	750.2
Spray sprinkler bodies	--	--	112.4	--	--	--	2014.9
Toilets (water closets)	--	--	18.6	--	--	--	338.7
Urinals	--	--	2.8	--	--	--	50.8
Water coolers	1,068	--	--	36.7	112.2	200.8	103.2
Total	9,988	40	222	2,168	1,063	4,017	5,470

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.