

Appliance Standards Awareness Project

2023 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 (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air purifiers	90.0	--	--	11.7	32.2	37.3	147.2	--	--	6.2	27.9	43.7
Commercial dishwashers	4.3	106	147	5.4	1.5	7.6	10.3	253	353	11.9	2.0	16.6
Commercial fryers	1.6	546	--	24.9	0.6	29.7	3.6	1,190	--	54.1	0.7	64.3
Commercial ovens	4.4	70	--	3.8	1.6	5.7	9.6	154	--	7.4	1.8	11.1
Commercial steam cookers	2.8	22	62	1.4	1.0	2.4	6.1	48	135	2.4	1.2	4.4
Electric vehicle supply equipment	8.5	--	--	1.1	3.1	3.5	56.7	--	--	2.4	10.8	16.8
Faucets	100.7	189	1,791	21.6	36.1	51.8	183.0	342	3,251	23.2	34.7	72.5
Gas fireplaces	--	134	--	6.1	--	7.1	--	364	--	16.5	--	19.3
High CRI fluorescent lamps	42.7	--	--	5.5	15.3	19.1	10.4	--	--	0.4	2.0	3.1
Portable electric spas	33.8	--	--	4.4	12.1	14.0	56.8	--	--	2.4	10.8	16.9
Residential ventilating fans	7.4	--	--	1.0	2.6	3.1	20.2	--	--	0.8	3.8	6.0
Showerheads	87.0	161	1,055	18.6	31.2	44.7	158.2	293	1,919	19.9	30.0	62.5
Spray sprinkler bodies	--	--	3,282	--	--	--	--	--	5,967	--	--	--
Toilets (water closets)	--	--	396	--	--	--	--	--	1,053	--	--	--
Urinals	--	--	75	--	--	--	--	--	164	--	--	--
Water coolers	19.8	--	--	2.6	7.1	8.9	36.0	--	--	1.5	6.8	10.9
Total	403	1,228	6,808	108	144	235	698	2,645	12,842	149	132	348

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, 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 2021\$)		Net present value savings (million 2021\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	9.0	14.7	93.1	4.7	1.5
Commercial dishwashers	3.4	9.0	57.0	9.7	1.1
Commercial fryers	5.0	11.4	58.3	3.3	3.0
Commercial ovens	1.0	2.3	4.2	1.3	7.1
Commercial steam cookers	1.3	3.2	20.8	10.6	1.0
Electric vehicle supply equipment	0.9	5.7	35.2	no cost	0.0
Faucets	37.1	74.6	559.5	no cost	0.0
Gas fireplaces	1.4	3.9	24.4	10.3	1.2
High CRI fluorescent lamps	3.9	1.0	15.7	2.7	2.2
Portable electric spas	3.4	5.7	36.2	5.0	1.3
Residential ventilating fans	0.7	2.0	14.1	no cost	0.0
Showerheads	25.1	50.1	377.0	no cost	0.0
Spray sprinkler bodies	46.0	96.6	653.0	12.0	0.8
Toilets (water closets)	5.6	17.1	146.1	no cost	0.0
Urinals	1.1	2.7	18.9	no cost	0.0
Water coolers	1.8	3.2	25.2	no cost	0.0
Total	147	303	2,139	15.1	-

Assuming a compliance date of 2025 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 2025 and 2040. Totals may not sum due to rounding. The total benefit-cost ratio is calculated as the present value of the total utility bill savings from products sold through 2040 for the package of recommended standards divided by the present value of the total additional costs. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, 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 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air purifiers	1,693	--	--	140.8	427.2	576.1
Commercial dishwashers	97	2.4	3.3	115.6	23.7	162.2
Commercial fryers	36	11.9	--	542.3	8.8	645.4
Commercial ovens	96	1.5	--	77.2	23.6	116.8
Commercial steam cookers	61	0.5	1.4	26.7	14.9	48.0
Electric vehicle supply equipment	322	--	--	21.5	73.3	103.2
Faucets	2,013	3.8	35.8	335.2	503.6	881.5
Gas fireplaces	--	3.1	--	140.3	--	164.4
High CRI fluorescent lamps	421	--	--	43.4	120.1	168.8
Portable electric spas	645	--	--	53.6	162.9	220.0
Residential ventilating fans	171	--	--	13.2	41.7	57.1
Showerheads	1,740	3.2	21.1	288.4	435.2	760.3
Spray sprinkler bodies	--	--	65.6	--	--	--
Toilets (water closets)	--	--	9.1	--	--	--
Urinals	--	--	1.6	--	--	--
Water coolers	396	--	--	32.3	99.0	146.8
Total	7,691	26	138	1,830	1,934	4,051

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market.