Appliance Standards Awareness Project

2024 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)
Commercial battery chargers	3.6			0.3	0.5	1.0	10.4			0.3	0.9	1.7
Commercial dishwashers	5.9	144	201	7.0	0.9	9.2	17.2	423	589	19.6	1.6	25.3
Commercial fryers	1.6	541		24.7	0.2	29.2	4.3	1,444		65.5	0.4	77.4
Commercial ovens	4.3	69		3.4	0.6	4.8	11.4	183		8.6	1.0	11.6
Commercial steam cookers	2.7	22	60	1.2	0.4	1.9	7.2	57	160	2.8	0.7	4.3
Faucets	41.0	78	732	6.8	6.2	15.2	91.1	171	1,620	10.0	8.2	24.3
Gas fireplaces		156		7.1		8.3		503		22.8		26.7
High CRI fluorescent lamps	29.9			2.3	4.5	8.0	11.2			0.3	1.0	1.9
Irrigation controllers			1,455					-	4,689			
Portable electric spas	20.3			1.6	3.0	5.4	39.9	-		1.0	3.6	6.7
Residential ventilating fans	2.3	-	-	0.2	0.3	0.6	7.3	-		0.2	0.7	1.2
Showerheads	51.9	96	629	8.4	7.8	19.0	115.4	214	1,399	12.6	10.4	30.6
Spray sprinkler bodies	-		2,678					-	5,950			
Toilets (water closets)			266						810			
Urinals			60					-	159			
Water coolers	24.7			1.9	3.7	6.6	54.8	-		1.4	5.0	9.1
Total	188	1,106	5,814	65	28	109	370	2,994	13,621	145	33	221

Assuming a compliance date of 2026 for all the recommended standards. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water savings. The total potential water savings are thus smaller than the sum of the individual products.

Savings estimates for: Tennessee

		nual utility bill llion 2022\$)	Net present value savings	Payback period	
	In 2030	In 2040	(million 2022\$)	(years)	
Commercial battery chargers	0.2	0.7	4.2	3.1	
Commercial dishwashers	4.5	14.9	125.7	1.2	
Commercial fryers	5.2	15.1	100.8	3.0	
Commercial ovens	1.0	2.9	6.9	7.3	
Commercial steam cookers	1.2	3.7	32.3	1.1	
Faucets	14.4	36.3	365.6	0.0	
Gas fireplaces	1.7	6.0	50.5	1.2	
High CRI fluorescent lamps	2.7	1.1	11.8	2.4	
Irrigation controllers	19.1	71.2	643.7	0.8	
Portable electric spas	2.0	4.3	33.9	1.4	
Residential ventilating fans	0.2	0.8	7.2	0.0	
Showerheads	14.3	36.1	362.2	0.0	
Spray sprinkler bodies	35.2	90.3	827.8	0.9	
Toilets (water closets)	3.5	12.3	153.3	0.0	
Urinals	0.8	2.4	23.7	0.0	
Water coolers	2.2	5.2	51.4	0.0	
Total	105	277	2,711	_	

Assuming a compliance date of 2026 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 2026 and 2050. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total savings. The totals are thus smaller than the sum of the individual products.

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 (thous. MT)	Utility bill savings (million 2022\$)		
Commercial battery chargers	193			6.3	19.5	34.5	12.1		
Commercial dishwashers	317	7.8	10.8	363.2	31.9	470.0	274.4		
Commercial fryers	82	27.4		1,245.8	8.3	1,471.7	283.7		
Commercial ovens	216	3.5		164.5	21.9	223.3	55.1		
Commercial steam cookers	137	1.1	3.0	54.0	13.9	82.6	70.4		
Faucets	1,822	3.4	32.4	217.8	187.9	514.2	725.2		
Gas fireplaces		9.1		412.5	-	483.5	108.0		
High CRI fluorescent lamps	363			19.4	49.1	81.6	33.5		
Irrigation controllers			84.9		-		1,309.4		
Portable electric spas	813			28.5	85.0	149.6	85.1		
Residential ventilating fans	131			4.2	13.1	23.2	13.8		
Showerheads	2,309	4.3	28.0	272.8	238.1	647.6	718.6		
Spray sprinkler bodies		-	119.0		-		1,813.3		
Toilets (water closets)		-	16.9				262.3		
Urinals			3.0				46.4		
Water coolers	1,097	-	-	37.6	113.1	199.8	101.9		
Total	7,481	57	268	2,827	782	4,382	5,452		

Assuming a compliance date of 2026 for all the recommended standards. 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. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water and utility bill savings. The total potential water and utility bill savings are thus smaller than the sum of the individual products.