

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Tennessee

	Potential annual savings in 2025						Potential annual savings in 2035					
	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 compressors	4.8	--	--	0.8	1.3	2.8	13.9	--	--	2.2	6.6	6.9
Air purifiers	32.0	--	--	5.5	8.7	16.8	63.9	--	--	10.3	30.1	29.4
Commercial dishwashers	3.4	81	112	4.3	0.9	6.3	10.0	237	330	12.4	4.7	17.5
Commercial fryers	0.6	304	--	13.9	0.2	16.5	1.5	811	--	37.2	0.7	43.8
Commercial hot-food holding cabinets	3.6	--	--	0.6	1.0	2.1	9.5	--	--	1.5	4.5	4.7
Commercial steam cookers	6.0	32	102	2.5	1.6	5.2	16.0	85	271	6.4	7.5	12.4
Computers and computer monitors	129.7	--	--	22.5	35.3	72.1	163.0	--	--	26.2	76.8	77.7
Faucets	102.1	185	1,669	26.1	27.8	63.4	227.0	396	3,678	54.6	107.0	125.6
High CRI fluorescent lamps	65.4	--	--	11.3	17.8	38.0	19.0	--	--	3.1	9.0	9.1
Portable air conditioners	9.5	--	--	1.7	2.6	5.0	28.6	--	--	4.6	13.5	13.2
Portable electric spas	5.4	--	--	0.9	1.5	2.8	12.0	--	--	1.9	5.7	5.6
Residential ventilating fans	3.9	--	--	0.7	1.1	2.1	8.7	--	--	1.4	4.1	4.0
Showerheads	72.2	122	794	18.1	19.7	44.4	160.4	272	1,765	38.2	75.6	88.4
Spray sprinkler bodies	--	--	1,302	--	--	--	--	--	2,604	--	--	--
Toilets (water closets)	--	--	446	--	--	--	--	--	1,394	--	--	--
Uninterruptible power supplies	23.6	--	--	4.1	6.4	13.6	31.9	--	--	5.1	15.1	15.6
Urinals	--	--	60	--	--	--	--	--	160	--	--	--
Water coolers	8.6	--	--	1.5	2.3	5.0	19.0	--	--	3.1	9.0	9.4
Total	471	723	4,486	114	128	296	785	1,801	10,203	208	370	463

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.

	Potential annual utility bill savings (million 2017\$)		Net present value savings (million 2017\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Air compressors	0.3	0.8	3.0	2.3	4.2
Air purifiers	3.3	6.6	24.4	1.9	3.7
Commercial dishwashers	2.4	7.6	46.7	9.4	1.2
Commercial fryers	2.9	7.8	28.3	2.1	4.4
Commercial hot-food holding cabinets	0.3	0.9	4.4	3.0	2.9
Commercial steam cookers	2.1	6.0	37.9	10.7	0.9
Computers and computer monitors	12.9	16.3	63.2	1.9	2.5
Faucets	31.8	77.2	558.1	no cost	0.0
High CRI fluorescent lamps	6.4	1.9	27.4	2.8	2.5
Portable air conditioners	1.0	3.0	11.6	2.4	3.4
Portable electric spas	0.6	1.2	9.2	no cost	0.0
Residential ventilating fans	0.4	0.9	6.7	no cost	0.0
Showerheads	17.9	43.3	313.9	no cost	0.0
Spray sprinkler bodies	15.2	34.9	222.6	8.3	1.0
Toilets (water closets)	5.2	18.7	167.1	no cost	0.0
Uninterruptible power supplies	2.3	3.1	14.6	2.3	2.2
Urinals	0.7	2.1	14.8	no cost	0.0
Water coolers	0.8	1.8	13.8	no cost	0.0
Total	106	234	1,568	8.8	-

Assuming a compliance date of 2021 for almost 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 2021 and 2035. 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 2035 for the package of recommended standards divided by the present value of the total additional costs.

Cumulative savings estimates for: Tennessee

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air compressors	118	--	--	20.3	50.1	62.3
Air purifiers	671	--	--	115.6	278.9	338.6
Commercial dishwashers	84	2.0	2.8	104.9	35.5	149.7
Commercial fryers	13	7.3	--	334.6	5.6	394.6
Commercial hot-food holding cabinets	86	--	--	14.7	36.2	45.2
Commercial steam cookers	144	0.8	2.4	59.4	60.7	116.3
Computers and computer monitors	1,972	--	--	341.5	794.4	1,030.1
Faucets	2,270	4.0	36.9	573.0	950.4	1,355.8
High CRI fluorescent lamps	649	--	--	114.7	241.6	356.4
Portable air conditioners	251	--	--	42.9	106.6	125.4
Portable electric spas	120	--	--	20.7	50.4	60.7
Residential ventilating fans	87	--	--	15.0	36.5	43.9
Showerheads	1,604	2.7	17.7	400.1	671.8	952.6
Spray sprinkler bodies	--	--	27.3	--	--	--
Toilets (water closets)	--	--	11.1	--	--	--
Uninterruptible power supplies	382	--	--	66.1	154.1	202.7
Urinals	--	--	1.4	--	--	--
Water coolers	190	--	--	32.8	79.7	100.7
Total	8,642	17	100	2,257	3,552	5,335

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.