

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Rhode Island

	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	0.2	--	--	0.03	0.01	0.03	0.5	--	--	0.1	0.04	0.1
Air purifiers	5.2	--	--	0.9	0.4	1.1	10.4	--	--	2.2	1.0	2.6
Commercial dishwashers	0.5	13	18	0.7	0.04	0.8	1.6	37	52	2.0	0.2	2.4
Commercial fryers	0.1	48	--	2.2	0.01	2.6	0.2	128	--	5.9	0.02	6.9
Commercial steam cookers	0.9	5	16	0.4	0.1	0.5	2.5	13	43	1.1	0.2	1.3
Computers and computer monitors	22.4	--	--	3.9	1.9	4.9	28.2	--	--	5.9	2.7	7.0
Faucets	6.2	80	264	4.7	0.5	5.6	13.8	176	582	10.9	1.3	12.8
High CRI fluorescent lamps	9.1	--	--	1.6	0.8	2.0	2.8	--	--	0.6	0.3	0.7
Portable air conditioners	5.3	--	--	0.9	0.4	1.1	15.9	--	--	3.3	1.5	3.9
Portable electric spas	1.4	--	--	0.2	0.1	0.3	3.2	--	--	0.7	0.3	0.8
Residential ventilating fans	0.6	--	--	0.1	0.1	0.1	1.4	--	--	0.3	0.1	0.3
Showerheads	4.4	55	126	3.3	0.4	3.9	9.8	123	279	7.7	0.9	8.9
Spray sprinkler bodies	--	--	130	--	--	--	--	--	260	--	--	--
Toilets (water closets)	--	--	70	--	--	--	--	--	220	--	--	--
Uninterruptible power supplies	4.2	--	--	0.7	0.4	0.9	5.7	--	--	1.2	0.5	1.4
Urinals	--	--	9	--	--	--	--	--	25	--	--	--
Water coolers	0.9	--	--	0.2	0.1	0.2	2.0	--	--	0.4	0.2	0.5
Total	62	201	633	20	5	24	98	478	1,461	42	9	50

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	0.02	0.1	0.4	6.4	1.5
Air purifiers	1.1	2.4	13.6	4.3	1.9
Commercial dishwashers	0.5	1.5	9.4	11.8	0.9
Commercial fryers	0.7	1.8	8.6	3.2	2.8
Commercial steam cookers	0.4	1.2	7.9	13.7	0.7
Computers and computer monitors	4.3	5.8	33.9	3.8	1.4
Faucets	5.7	13.8	99.9	no cost	0.0
High CRI fluorescent lamps	1.6	0.6	9.1	5.1	1.5
Portable air conditioners	1.1	3.7	19.7	5.3	1.7
Portable electric spas	0.3	0.7	5.4	no cost	0.0
Residential ventilating fans	0.1	0.3	2.4	no cost	0.0
Showerheads	3.3	8.0	57.9	no cost	0.0
Spray sprinkler bodies	1.5	3.5	22.0	8.2	1.0
Toilets (water closets)	0.8	2.9	26.2	no cost	0.0
Uninterruptible power supplies	0.8	1.1	6.7	4.4	1.3
Urinals	0.1	0.3	2.3	no cost	0.0
Water coolers	0.2	0.4	2.7	no cost	0.0
Total	23	48	328	10.8	-

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: Rhode Island

	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	4	--	--	0.8	0.3	0.9
Air purifiers	109	--	--	21.3	9.6	25.3
Commercial dishwashers	13	0.3	0.4	16.9	1.2	19.6
Commercial fryers	2	1.2	--	52.9	0.2	61.6
Commercial steam cookers	23	0.1	0.4	10.0	2.0	11.5
Computers and computer monitors	341	--	--	65.9	29.9	77.0
Faucets	138	1.8	5.8	107.6	12.3	126.1
High CRI fluorescent lamps	91	--	--	16.9	7.8	20.0
Portable air conditioners	139	--	--	27.6	12.4	32.7
Portable electric spas	32	--	--	6.3	2.8	7.4
Residential ventilating fans	14	--	--	2.8	1.3	3.3
Showerheads	98	1.2	2.8	75.3	8.7	88.2
Spray sprinkler bodies	--	--	2.7	--	--	--
Toilets (water closets)	--	--	1.8	--	--	--
Uninterruptible power supplies	69	--	--	13.3	6.0	15.4
Urinals	--	--	0.2	--	--	--
Water coolers	20	--	--	4.0	1.8	4.6
Total	1,094	5	14	421	96	494

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