

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Iowa

	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	4.5	--	--	2.5	1.2	2.1	13.0	--	--	7.6	3.5	6.6
Air purifiers	15.7	--	--	8.8	4.3	8.0	31.5	--	--	18.4	8.6	16.1
Commercial dishwashers	1.6	38	53	2.6	0.4	2.8	4.7	111	155	7.8	1.3	8.3
Commercial fryers	0.3	142	--	6.6	0.1	7.7	0.7	380	--	17.7	0.2	20.5
Commercial hot-food holding cabinets	1.7	--	--	0.9	0.5	0.8	4.5	--	--	2.6	1.2	2.3
Commercial steam cookers	2.8	15	48	2.2	0.8	2.1	7.5	40	127	6.2	2.0	5.9
Computers and computer monitors	60.7	--	--	33.9	16.4	29.9	76.3	--	--	44.5	20.8	39.0
Faucets	22.4	218	784	22.4	6.1	23.0	49.8	477	1,726	50.8	13.6	50.9
High CRI fluorescent lamps	24.9	--	--	13.9	6.7	11.9	7.9	--	--	4.6	2.2	4.0
Portable air conditioners	7.7	--	--	4.3	2.1	3.9	23.2	--	--	13.6	6.3	11.9
Portable electric spas	3.1	--	--	1.7	0.8	1.6	6.8	--	--	4.0	1.9	3.5
Residential ventilating fans	1.9	--	--	1.1	0.5	1.0	4.3	--	--	2.5	1.2	2.2
Showerheads	15.9	150	373	15.7	4.3	16.1	35.2	334	829	35.7	9.6	35.8
Spray sprinkler bodies	--	--	200	--	--	--	--	--	399	--	--	--
Toilets (water closets)	--	--	209	--	--	--	--	--	654	--	--	--
Uninterruptible power supplies	10.6	--	--	5.9	2.9	5.1	14.4	--	--	8.4	3.9	7.3
Urinals	--	--	28	--	--	--	--	--	75	--	--	--
Water coolers	3.1	--	--	1.7	0.8	1.5	6.9	--	--	4.0	1.9	3.5
Total	177	563	1,694	124	48	117	287	1,342	3,965	228	78	218

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	3.4	2.6	3.7
Air purifiers	2.0	4.4	19.7	2.6	2.9
Commercial dishwashers	1.0	3.3	19.7	8.6	1.3
Commercial fryers	1.1	3.0	9.0	1.8	5.3
Commercial hot-food holding cabinets	0.2	0.4	2.0	2.9	3.0
Commercial steam cookers	0.9	2.6	16.4	9.9	1.0
Computers and computer monitors	6.8	9.0	38.7	2.2	2.2
Faucets	13.7	33.8	242.9	no cost	0.0
High CRI fluorescent lamps	2.4	0.9	10.8	2.7	2.6
Portable air conditioners	1.0	3.2	14.4	3.2	2.7
Portable electric spas	0.4	0.9	6.8	no cost	0.0
Residential ventilating fans	0.3	0.6	4.3	no cost	0.0
Showerheads	7.7	18.9	136.1	no cost	0.0
Spray sprinkler bodies	2.2	5.0	31.8	7.8	1.1
Toilets (water closets)	2.3	8.3	73.8	no cost	0.0
Uninterruptible power supplies	1.0	1.5	6.8	2.4	2.2
Urinals	0.3	0.9	6.5	no cost	0.0
Water coolers	0.3	0.7	4.8	no cost	0.0
Total	44	98	648	8.4	-

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: Iowa

	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	110	--	--	63.1	30.3	56.2
Air purifiers	331	--	--	189.0	90.9	168.7
Commercial dishwashers	39	0.9	1.3	64.9	10.8	69.5
Commercial fryers	6	3.4	--	159.2	1.7	184.7
Commercial hot-food holding cabinets	40	--	--	23.0	11.0	20.5
Commercial steam cookers	67	0.4	1.1	54.8	18.5	53.3
Computers and computer monitors	924	--	--	526.5	253.8	470.2
Faucets	498	4.8	17.3	503.4	137.1	509.0
High CRI fluorescent lamps	251	--	--	141.4	68.7	127.4
Portable air conditioners	204	--	--	116.8	56.0	104.1
Portable electric spas	68	--	--	38.9	18.7	34.7
Residential ventilating fans	43	--	--	24.6	11.8	21.9
Showerheads	352	3.3	8.3	353.5	96.9	357.1
Spray sprinkler bodies	--	--	4.2	--	--	--
Toilets (water closets)	--	--	5.2	--	--	--
Uninterruptible power supplies	172	--	--	98.3	47.4	87.7
Urinals	--	--	0.7	--	--	--
Water coolers	69	--	--	39.2	18.8	34.9
Total	3,174	13	38	2,397	873	2,300

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