

Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Alaska

	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	0.3	--	--	0.8	0.1	0.1	0.8	--	--	2.3	0.2	0.3
Air purifiers	3.2	--	--	8.8	0.6	1.1	6.3	--	--	17.3	1.4	2.1
Commercial dishwashers	0.4	9	12	1.4	0.1	0.6	1.1	26	36	4.2	0.2	1.8
Commercial fryers	0.1	33	--	1.7	0.01	1.8	0.2	89	--	4.5	0.04	4.8
Commercial hot-food holding cabinets	0.4	--	--	1.1	0.1	0.1	1.0	--	--	2.9	0.2	0.3
Commercial steam cookers	0.7	4	11	2.0	0.1	0.4	1.8	9	30	5.2	0.4	1.1
Computers and computer monitors	18.2	--	--	50.2	3.6	6.1	22.8	--	--	62.4	5.1	7.5
Faucets	3.2	62	185	11.6	0.6	4.4	7.0	137	407	25.4	1.6	9.5
High CRI fluorescent lamps	6.9	--	--	19.1	1.4	2.3	2.0	--	--	5.4	0.4	0.6
Portable air conditioners	--	--	--	--	--	--	--	--	--	--	--	--
Portable electric spas	1.5	--	--	4.1	0.3	0.5	3.3	--	--	9.1	0.7	1.1
Residential ventilating fans	0.4	--	--	1.1	0.1	0.1	0.9	--	--	2.4	0.2	0.3
Showerheads	2.2	43	88	8.1	0.4	3.0	5.0	96	195	17.9	1.1	6.7
Spray sprinkler bodies	--	--	209	--	--	--	--	--	418	--	--	--
Toilets (water closets)	--	--	49	--	--	--	--	--	154	--	--	--
Uninterruptible power supplies	4.0	--	--	11.0	0.8	1.3	5.4	--	--	14.7	1.2	1.8
Urinals	--	--	7	--	--	--	--	--	18	--	--	--
Water coolers	0.7	--	--	1.9	0.1	0.2	1.5	--	--	4.2	0.3	0.5
Total	42	151	561	123	8	22	59	357	1,257	178	13	38

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	0.05	0.1	0.8	7.1	1.4
Air purifiers	0.7	1.5	8.8	4.5	1.7
Commercial dishwashers	0.3	1.0	6.0	10.9	1.1
Commercial fryers	0.4	1.0	4.1	2.5	4.5
Commercial hot-food holding cabinets	0.1	0.2	1.2	6.2	1.5
Commercial steam cookers	0.3	0.8	5.4	13.6	0.8
Computers and computer monitors	3.8	4.8	29.7	4.0	1.2
Faucets	3.5	8.6	62.2	no cost	0.0
High CRI fluorescent lamps	1.4	0.4	7.7	5.8	1.2
Portable air conditioners	--	--	--	--	--
Portable electric spas	0.3	0.8	5.8	no cost	0.0
Residential ventilating fans	0.1	0.2	1.5	no cost	0.0
Showerheads	2.0	4.9	35.4	no cost	0.0
Spray sprinkler bodies	2.3	5.4	34.0	8.0	1.1
Toilets (water closets)	0.5	2.0	17.7	no cost	0.0
Uninterruptible power supplies	0.8	1.1	7.0	4.8	1.1
Urinals	0.1	0.2	1.6	no cost	0.0
Water coolers	0.1	0.3	2.3	no cost	0.0
Total	17	33	231	10.3	--

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: Alaska

	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	7	--	--	19.6	1.6	2.4
Air purifiers	67	--	--	186.2	14.7	22.1
Commercial dishwashers	9	0.2	0.3	35.7	2.0	14.7
Commercial fryers	1	0.8	--	40.7	0.3	43.2
Commercial hot-food holding cabinets	9	--	--	26.4	2.1	3.2
Commercial steam cookers	16	0.1	0.3	48.0	3.5	9.8
Computers and computer monitors	276	--	--	771.9	60.6	92.5
Faucets	70	1.4	4.1	258.4	15.5	96.1
High CRI fluorescent lamps	68	--	--	191.1	14.7	23.1
Portable air conditioners	--	--	--	--	--	--
Portable electric spas	33	--	--	92.7	7.3	11.0
Residential ventilating fans	9	--	--	24.2	1.9	2.9
Showerheads	50	1.0	2.0	182.1	11.0	67.3
Spray sprinkler bodies	--	--	4.4	--	--	--
Toilets (water closets)	--	--	1.2	--	--	--
Uninterruptible power supplies	64	--	--	179.5	14.1	21.6
Urinals	--	--	0.2	--	--	--
Water coolers	15	--	--	42.7	3.4	5.1
Total	695	3	12	2,099	153	415

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