



Appliance Standards Awareness Project

2019 State Appliance Standards Recommendations

Savings estimates for: Colorado

	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	3.1	--	--	2.1	0.3	1.8	8.9	--	--	5.5	0.8	4.6
Air purifiers	26.0	--	--	17.7	2.8	14.6	52.0	--	--	32.1	4.8	26.1
Commercial dishwashers	2.8	67	94	5.0	0.3	5.3	8.3	198	276	14.2	0.8	14.8
Commercial fryers	0.5	254	--	11.9	0.1	13.8	1.2	677	--	31.6	0.1	36.6
Commercial hot-food holding cabinets	3.0	--	--	2.0	0.3	1.8	8.0	--	--	4.9	0.7	4.1
Commercial steam cookers	5.0	27	85	4.6	0.5	4.4	13.3	71	226	11.4	1.2	10.6
Computers and computer monitors	104.2	--	--	70.8	11.3	60.2	130.9	--	--	80.8	12.2	66.5
Faucets	15.7	435	1,213	30.5	1.7	31.9	34.8	955	2,670	65.0	3.2	68.2
High CRI fluorescent lamps	35.4	--	--	24.1	3.8	20.9	12.0	--	--	7.4	1.1	6.1
Portable air conditioners	6.6	--	--	4.5	0.7	3.7	19.9	--	--	12.3	1.8	10.0
Portable electric spas	5.8	--	--	4.0	0.6	3.3	13.0	--	--	8.0	1.2	6.5
Residential ventilating fans	3.2	--	--	2.2	0.3	1.8	7.1	--	--	4.4	0.7	3.6
Spray sprinkler bodies	--	--	2,550	--	--	--	--	--	5,100	--	--	--
Uninterruptible power supplies	18.8	--	--	12.8	2.0	11.1	25.5	--	--	15.7	2.4	13.0
Water coolers	5.2	--	--	3.6	0.6	3.1	11.7	--	--	7.2	1.1	6.0
Total	235	783	3,942	195	26	178	347	1,901	8,272	300	32	277

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	0.2	0.7	3.1	3.1	3.4
Air purifiers	3.3	7.5	34.0	2.6	3.2
Commercial dishwashers	1.9	6.3	38.1	9.3	1.2
Commercial fryers	2.4	6.5	23.6	2.1	4.5
Commercial hot-food holding cabinets	0.3	0.8	3.9	3.1	3.1
Commercial steam cookers	1.7	4.9	31.0	10.5	1.0
Computers and computer monitors	11.7	15.9	69.9	2.2	2.4
Faucets	19.7	48.7	350.2	no cost	0.0
High CRI fluorescent lamps	3.5	1.5	16.5	2.8	2.8
Portable air conditioners	0.9	2.8	13.0	3.3	2.8
Portable electric spas	0.8	1.9	13.4	no cost	0.0
Residential ventilating fans	0.4	1.0	7.4	no cost	0.0
Spray sprinkler bodies	28.4	65.6	415.3	8.0	1.1
Uninterruptible power supplies	1.9	2.7	13.0	2.5	2.3
Water coolers	0.5	1.2	8.7	no cost	0.0
Total	78	168	1,041	6.4	-

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: **Colorado**

	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	76	--	--	49.2	7.5	41.2
Air purifiers	546	--	--	356.7	54.8	287.4
Commercial dishwashers	70	1.7	2.3	121.1	7.0	126.3
Commercial fryers	11	6.1	--	284.7	1.1	329.7
Commercial hot-food holding cabinets	72	--	--	46.6	7.1	39.0
Commercial steam cookers	120	0.6	2.0	107.2	12.0	99.3
Computers and computer monitors	1,585	--	--	1,042.8	160.8	861.7
Faucets	348	9.6	26.8	664.0	34.9	692.4
High CRI fluorescent lamps	361	--	--	242.6	37.8	207.9
Portable air conditioners	174	--	--	113.0	17.3	90.9
Portable electric spas	130	--	--	84.6	13.0	68.1
Residential ventilating fans	71	--	--	46.3	7.1	37.3
Spray sprinkler bodies	--	--	53.5	--	--	--
Uninterruptible power supplies	304	--	--	200.0	30.8	167.9
Water coolers	117	--	--	76.1	11.7	63.8
Total	3,984	18	85	3,435	403	3,113

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