

## Appliance Standards Awareness Project

### 2019 State Appliance Standards Recommendations

#### Savings estimates for: Utah

	Potential annual savings in 2025						Potential annual savings in 2035					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air compressors	1.8	--	--	0.5	0.2	0.4	5.3	--	--	1.5	0.4	1.2
Air purifiers	11.6	--	--	3.0	1.0	2.7	23.3	--	--	6.6	1.9	5.6
Commercial dishwashers	1.6	37	52	2.1	0.1	2.4	4.6	110	153	6.3	0.4	6.9
Commercial fryers	0.3	140	--	6.5	0.02	7.5	0.7	374	--	17.2	0.1	20.1
Commercial hot-food holding cabinets	1.6	--	--	0.4	0.1	0.4	4.4	--	--	1.3	0.4	1.0
Commercial steam cookers	2.8	15	47	1.4	0.2	1.4	7.4	39	125	3.9	0.6	3.8
Computers and computer monitors	53.1	--	--	13.9	4.5	12.6	66.7	--	--	19.0	5.3	15.7
Faucets	19.0	224	756	15.2	1.6	16.3	42.2	491	1,666	34.4	3.4	36.2
High CRI fluorescent lamps	19.7	--	--	5.2	1.7	4.7	6.1	--	--	1.7	0.5	1.4
Portable air conditioners	3.6	--	--	0.9	0.3	0.8	10.7	--	--	3.0	0.9	2.6
Portable electric spas	2.8	--	--	0.7	0.2	0.7	6.3	--	--	1.8	0.5	1.5
Residential ventilating fans	1.4	--	--	0.4	0.1	0.3	3.2	--	--	0.9	0.3	0.8
Showerheads	13.4	155	360	10.6	1.1	11.3	29.8	343	800	24.2	2.4	25.4
Spray sprinkler bodies	--	--	2,898	--	--	--	--	--	5,796	--	--	--
Toilets (water closets)	--	--	203	--	--	--	--	--	633	--	--	--
Uninterruptible power supplies	10.4	--	--	2.7	0.9	2.5	14.1	--	--	4.0	1.1	3.3
Urinals	--	--	28	--	--	--	--	--	74	--	--	--
Water coolers	3.0	--	--	0.8	0.3	0.7	6.6	--	--	1.9	0.5	1.5
<b>Total</b>	<b>146</b>	<b>571</b>	<b>4,344</b>	<b>64</b>	<b>12</b>	<b>65</b>	<b>231</b>	<b>1,358</b>	<b>9,247</b>	<b>128</b>	<b>18</b>	<b>127</b>

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	0.1	0.3	1.0	2.2	4.4
Air purifiers	1.3	3.0	12.1	2.3	3.6
Commercial dishwashers	1.1	3.4	20.9	9.2	1.2
Commercial fryers	1.4	3.8	14.6	2.3	4.2
Commercial hot-food holding cabinets	0.1	0.3	1.5	2.5	3.7
Commercial steam cookers	0.9	2.6	16.2	10.0	1.0
Computers and computer monitors	4.9	6.7	23.7	1.8	2.9
Faucets	12.9	32.2	230.9	no cost	0.0
High CRI fluorescent lamps	1.6	0.6	6.4	2.3	3.2
Portable air conditioners	0.4	1.4	5.7	2.9	3.3
Portable electric spas	0.3	0.8	5.7	no cost	0.0
Residential ventilating fans	0.2	0.4	2.9	no cost	0.0
Showerheads	7.1	17.9	128.2	no cost	0.0
Spray sprinkler bodies	32.3	74.5	472.0	8.0	1.1
Toilets (water closets)	2.3	8.1	72.7	no cost	0.0
Uninterruptible power supplies	0.8	1.2	4.7	2.0	2.7
Urinals	0.3	0.9	6.5	no cost	0.0
Water coolers	0.2	0.5	3.9	no cost	0.0
<b>Total</b>	<b>68</b>	<b>159</b>	<b>1,030</b>	<b>8.6</b>	<b>-</b>

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: **Utah**

	Potential cumulative savings through 2035					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air compressors	45	--	--	12.7	3.7	10.7
Air purifiers	244	--	--	68.6	19.8	57.3
Commercial dishwashers	39	0.9	1.3	52.7	3.1	57.9
Commercial fryers	6	3.4	--	155.2	0.5	180.5
Commercial hot-food holding cabinets	40	--	--	11.1	3.2	9.4
Commercial steam cookers	66	0.4	1.1	34.7	5.4	34.4
Computers and computer monitors	807	--	--	225.9	65.8	191.4
Faucets	422	4.9	16.7	343.1	34.3	360.8
High CRI fluorescent lamps	197	--	--	54.9	16.3	48.3
Portable air conditioners	94	--	--	26.3	7.6	21.9
Portable electric spas	63	--	--	17.6	5.1	14.7
Residential ventilating fans	32	--	--	8.9	2.6	7.4
Showerheads	298	3.4	8.0	240.2	24.2	252.4
Spray sprinkler bodies	--	--	60.9	--	--	--
Toilets (water closets)	--	--	5.0	--	--	--
Uninterruptible power supplies	168	--	--	47.1	13.7	40.1
Urinals	--	--	0.7	--	--	--
Water coolers	66	--	--	18.6	5.4	15.7
<b>Total</b>	<b>2,587</b>	<b>13</b>	<b>94</b>	<b>1,318</b>	<b>211</b>	<b>1,303</b>

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