

## Appliance Standards Awareness Project

### 2024 State Appliance Standards Recommendations

#### Savings estimates for: Utah

	Potential annual savings in 2030						Potential annual savings in 2040					
	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)
Commercial battery chargers	1.4	--	--	0.3	0.03	0.3	4.2	--	--	0.2	0.02	0.4
Commercial dishwashers	2.8	69	96	3.7	0.1	4.4	8.2	203	282	9.6	0.04	11.6
Commercial fryers	0.8	259	--	11.9	0.01	14.0	2.1	692	--	31.5	0.01	37.0
Commercial ovens	2.0	33	--	1.9	0.04	2.2	5.5	88	--	4.3	0.02	5.2
Commercial steam cookers	1.3	10	29	0.7	0.02	0.9	3.5	28	77	1.4	0.01	1.8
Faucets	4.8	119	347	6.3	0.1	7.5	10.7	262	768	12.4	0.05	15.0
Gas fireplaces	--	77	--	3.5	--	4.1	--	247	--	11.2	--	13.1
High CRI fluorescent lamps	13.6	--	--	2.5	0.3	3.3	4.9	--	--	0.3	0.02	0.5
Irrigation controllers	--	--	3,247	--	--	--	--	--	10,461	--	--	--
Portable electric spas	22.4	--	--	4.2	0.4	5.4	44.1	--	--	2.3	0.2	4.5
Residential ventilating fans	0.9	--	--	0.2	0.02	0.2	2.8	--	--	0.1	0.01	0.3
Showerheads	6.1	149	298	7.9	0.1	9.4	13.6	331	663	15.7	0.1	18.9
Spray sprinkler bodies	--	--	5,974	--	--	--	--	--	13,275	--	--	--
Toilets (water closets)	--	--	127	--	--	--	--	--	385	--	--	--
Urinals	--	--	29	--	--	--	--	--	76	--	--	--
Water coolers	8.6	--	--	1.6	0.2	2.1	19.2	--	--	1.0	0.1	1.9
<b>Total</b>	<b>65</b>	<b>716</b>	<b>9,549</b>	<b>44</b>	<b>1</b>	<b>54</b>	<b>119</b>	<b>1,849</b>	<b>22,072</b>	<b>90</b>	<b>1</b>	<b>110</b>

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water savings. The total potential water savings are thus smaller than the sum of the individual products.

## Savings estimates for: Utah

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.3	2.0	2.7
Commercial dishwashers	2.3	7.8	66.8	1.1
Commercial fryers	2.0	6.1	36.9	3.6
Commercial ovens	0.4	1.2	1.3	8.5
Commercial steam cookers	0.7	2.0	17.6	1.0
Faucets	7.4	18.8	189.4	0.0
Gas fireplaces	0.7	2.6	21.3	1.3
High CRI fluorescent lamps	1.1	0.5	4.7	2.6
Irrigation controllers	53.7	199.8	1,831.2	0.7
Portable electric spas	2.6	5.7	48.3	1.0
Residential ventilating fans	0.1	0.4	3.3	0.0
Showerheads	7.0	17.9	179.7	0.0
Spray sprinkler bodies	98.8	253.5	2,373.7	0.7
Toilets (water closets)	2.1	7.4	91.6	0.0
Urinals	0.5	1.5	14.3	0.0
Water coolers	0.7	1.7	15.9	0.0
<b>Total</b>	<b>170</b>	<b>452</b>	<b>4,646</b>	<b>-</b>

Assuming a compliance date of 2026 for 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 2026 and 2050. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total savings. The totals are thus smaller than the sum of the individual products.

## Cumulative savings estimates for: Utah

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Utility bill savings (million 2022\$)
Commercial battery chargers	78	--	--	7.1	0.7	11.3	5.4
Commercial dishwashers	152	3.7	5.2	183.0	1.4	220.2	144.3
Commercial fryers	39	13.1	--	599.4	0.4	704.0	113.7
Commercial ovens	104	1.7	--	85.2	1.0	103.7	22.5
Commercial steam cookers	66	0.5	1.5	29.9	0.6	37.5	38.0
Faucets	214	5.2	15.4	259.1	2.1	311.5	375.6
Gas fireplaces	--	4.5	--	202.3	--	237.1	46.2
High CRI fluorescent lamps	163	--	--	26.7	3.0	35.1	14.0
Irrigation controllers	--	--	189.4	--	--	--	3,675.0
Portable electric spas	898	--	--	91.1	9.2	139.2	112.6
Residential ventilating fans	51	--	--	4.5	0.4	7.3	6.4
Showerheads	272	6.6	13.3	326.8	2.7	392.9	356.5
Spray sprinkler bodies	--	--	265.5	--	--	--	5,089.4
Toilets (water closets)	--	--	8.0	--	--	--	156.9
Urinals	--	--	1.5	--	--	--	28.0
Water coolers	384	--	--	38.1	3.8	58.7	31.6
<b>Total</b>	<b>2,420</b>	<b>35</b>	<b>433</b>	<b>1,853</b>	<b>25</b>	<b>2,259</b>	<b>8,920</b>

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water and utility bill savings. The total potential water and utility bill savings are thus smaller than the sum of the individual products.