

## Appliance Standards Awareness Project

### 2025 State Appliance Standards Recommendations

#### Savings estimates for: Missouri

	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> (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thousand metric tons)
Commercial battery chargers	1.3	--	--	0.1	0.2	0.3	4.5	--	--	0.4	0.4	1.0
Commercial dishwashers	5.8	74	103	3.9	0.7	5.4	16.6	212	295	11.0	1.5	14.9
Commercial fryers	0.3	239	--	10.9	0.04	12.7	1.2	820	--	37.3	0.1	43.6
Commercial ovens	3.4	25	--	1.4	0.4	2.1	11.7	84	--	4.8	1.1	7.1
Commercial steam cookers	1.1	10	27	0.6	0.1	0.8	3.7	36	92	1.9	0.3	2.7
Faucets	31.7	141	860	9.2	4.0	15.4	90.6	403	2,454	26.1	8.4	41.7
Gas fireplaces	--	65	--	2.9	--	3.4	--	250	--	11.3	--	13.2
High CRI fluorescent lamps	22.4	--	--	2.0	2.8	5.6	10.9	--	--	0.9	1.0	2.5
Portable electric spas	25.4	--	--	2.2	3.2	6.3	63.6	--	--	5.5	5.9	14.3
Residential ventilating fans	1.7	--	--	0.2	0.2	0.4	6.7	--	--	0.6	0.6	1.5
Server power supplies	54.9	--	--	4.8	7.0	13.7	78.4	--	--	6.7	7.3	17.7
Showerheads	23.7	105	438	6.9	3.0	11.5	67.6	300	1,252	19.4	6.3	31.1
Spray sprinkler bodies	--	--	2,591	--	--	--	--	--	7,403	--	--	--
Toilets (water closets)	--	--	214	--	--	--	--	--	800	--	--	--
Urinals	--	--	40	--	--	--	--	--	136	--	--	--
Water coolers	16.4	--	--	1.4	2.1	4.1	46.9	--	--	4.0	4.3	10.6
<b>Total</b>	<b>188</b>	<b>660</b>	<b>4,273</b>	<b>46</b>	<b>24</b>	<b>82</b>	<b>402</b>	<b>2,105</b>	<b>12,432</b>	<b>130</b>	<b>37</b>	<b>202</b>

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

## Savings estimates for: [Missouri](#)

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.3	1.4	5.0
Commercial dishwashers	2.9	9.2	80.7	1.0
Commercial fryers	2.0	7.7	50.8	3.0
Commercial ovens	0.5	1.8	4.2	6.9
Commercial steam cookers	0.6	2.5	21.6	0.8
Faucets	19.6	62.8	621.2	0.0
Gas fireplaces	0.7	2.9	25.6	1.2
High CRI fluorescent lamps	1.9	1.0	10.2	2.1
Portable electric spas	2.7	6.9	60.3	0.9
Residential ventilating fans	0.2	0.7	7.1	0.0
Server power supplies	4.6	6.6	52.9	1.1
Showerheads	11.1	35.5	350.3	0.0
Spray sprinkler bodies	44.3	145.8	1,336.9	0.7
Toilets (water closets)	3.7	15.8	197.6	0.0
Urinals	0.7	2.7	25.6	0.0
Water coolers	1.4	3.9	38.4	0.0
<b>Total</b>	<b>97</b>	<b>306</b>	<b>2,885</b>	<b>-</b>

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Cumulative savings estimates for: **Missouri**

	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> (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	84	--	--	7.1	8.0	18.6	5.9
Commercial dishwashers	314	4.0	5.6	208.9	30.7	282.8	174.4
Commercial fryers	21	14.8	--	670.6	2.0	785.4	137.2
Commercial ovens	210	1.5	--	86.4	20.3	126.7	31.3
Commercial steam cookers	67	0.6	1.7	34.7	6.5	48.8	44.5
Faucets	1,722	7.7	46.6	492.3	168.1	787.8	1200.3
Gas fireplaces	--	4.6	--	208.0	--	242.8	53.0
High CRI fluorescent lamps	316	--	--	27.8	37.8	75.4	27.3
Portable electric spas	1,248	--	--	105.3	122.8	277.8	133.6
Residential ventilating fans	123	--	--	10.3	11.7	27.1	13.2
Server power supplies	1,685	--	--	143.2	172.1	380.0	140.0
Showerheads	1,285	5.7	23.8	367.0	125.5	587.5	676.6
Spray sprinkler bodies	--	--	140.7	--	--	--	2798.5
Toilets (water closets)	--	--	16.3	--	--	--	331.2
Urinals	--	--	2.4	--	--	--	49.0
Water coolers	891	--	--	75.1	87.0	197.9	73.9
<b>Total</b>	<b>7,966</b>	<b>39</b>	<b>237</b>	<b>2,437</b>	<b>792</b>	<b>3,839</b>	<b>5,890</b>

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