

## Appliance Standards Awareness Project

### 2025 State Appliance Standards Recommendations

#### Savings estimates for: Virginia

	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	2.1	--	--	0.1	0.1	0.5	7.3	--	--	0.3	0.3	0.9
Commercial dishwashers	8.1	104	145	5.3	0.4	7.6	23.3	298	415	14.3	1.0	18.8
Commercial fryers	0.5	336	--	15.3	0.02	17.9	1.6	1,153	--	52.3	0.1	61.2
Commercial ovens	4.8	35	--	1.9	0.2	3.1	16.4	118	--	5.9	0.7	8.4
Commercial steam cookers	1.5	15	38	0.8	0.1	1.2	5.3	50	129	2.5	0.2	3.3
Faucets	55.3	146	1,203	10.4	2.7	22.1	157.9	416	3,432	24.3	6.7	42.6
Gas fireplaces	--	157	--	7.1	--	8.3	--	604	--	27.4	--	32.0
High CRI fluorescent lamps	36.5	--	--	2.5	1.8	9.5	17.1	--	--	0.6	0.7	2.2
Portable electric spas	40.7	--	--	2.8	2.0	10.6	101.8	--	--	3.5	4.3	13.3
Residential ventilating fans	2.3	--	--	0.2	0.1	0.6	9.0	--	--	0.3	0.4	1.2
Server power supplies	52.9	--	--	3.6	2.6	13.7	75.6	--	--	2.6	3.2	9.9
Showerheads	41.2	108	613	7.7	2.0	16.4	117.8	310	1,751	18.1	5.0	31.7
Spray sprinkler bodies	--	--	2,035	--	--	--	--	--	5,815	--	--	--
Toilets (water closets)	--	--	300	--	--	--	--	--	1,121	--	--	--
Urinals	--	--	56	--	--	--	--	--	191	--	--	--
Water coolers	37.8	--	--	2.6	1.8	9.8	107.9	--	--	3.8	4.5	14.1
<b>Total</b>	<b>284</b>	<b>901</b>	<b>4,390</b>	<b>60</b>	<b>14</b>	<b>121</b>	<b>641</b>	<b>2,949</b>	<b>12,854</b>	<b>156</b>	<b>27</b>	<b>240</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: Virginia

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.2	0.6	2.1	5.9
Commercial dishwashers	4.0	12.7	111.7	1.0
Commercial fryers	3.4	12.7	88.8	2.5
Commercial ovens	0.8	2.8	8.9	6.3
Commercial steam cookers	0.9	3.3	29.1	0.8
Faucets	27.6	89.4	881.4	0.0
Gas fireplaces	2.3	9.7	88.2	0.8
High CRI fluorescent lamps	3.2	1.7	18.5	2.0
Portable electric spas	5.1	14.1	125.9	0.8
Residential ventilating fans	0.3	1.2	12.1	0.0
Server power supplies	4.5	6.9	56.3	1.1
Showerheads	16.2	52.3	515.1	0.0
Spray sprinkler bodies	31.3	103.2	937.4	0.8
Toilets (water closets)	4.6	19.9	249.3	0.0
Urinals	0.9	3.4	32.5	0.0
Water coolers	3.2	9.9	96.1	0.0
<b>Total</b>	<b>108</b>	<b>344</b>	<b>3,253</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: [Virginia](#)

	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	135	--	--	5.0	5.7	19.4	10.4
Commercial dishwashers	442	5.7	7.9	273.3	18.7	364.5	241.9
Commercial fryers	30	20.8	--	941.9	1.2	1102.5	225.7
Commercial ovens	295	2.1	--	107.6	12.5	155.6	49.6
Commercial steam cookers	95	0.9	2.3	44.4	4.0	61.4	60.1
Faucets	2,999	7.9	65.2	471.4	127.0	858.5	1703.1
Gas fireplaces	--	11.1	--	502.2	--	586.3	176.9
High CRI fluorescent lamps	508	--	--	24.7	23.4	94.5	47.4
Portable electric spas	1,996	--	--	76.3	84.7	296.3	271.7
Residential ventilating fans	164	--	--	6.0	7.0	23.5	22.5
Server power supplies	1,626	--	--	65.4	70.4	253.7	146.0
Showerheads	2,239	5.9	33.3	351.3	94.8	640.1	994.9
Spray sprinkler bodies	--	--	110.5	--	--	--	1980.1
Toilets (water closets)	--	--	22.9	--	--	--	417.8
Urinals	--	--	3.4	--	--	--	62.1
Water coolers	2,050	--	--	77.5	86.8	301.0	185.0
<b>Total</b>	<b>12,578</b>	<b>54</b>	<b>246</b>	<b>2,947</b>	<b>536</b>	<b>4,757</b>	<b>6,595</b>

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