

## Appliance Standards Awareness Project

### 2022 State Appliance Standards Recommendations

#### Savings estimates for: [New Jersey](#)

	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)
Air purifiers	124.2	--	--	6.2	14.8	28.2	171.9	--	--	8.7	22.2	36.4
Commercial dishwashers	5.5	134	187	6.4	0.7	8.5	11.1	272	379	12.9	1.4	16.7
Commercial fryers	2.1	643	--	29.3	0.2	34.7	3.9	1,187	--	54.0	0.5	63.9
Commercial ovens	5.1	83	--	4.0	0.6	5.7	9.5	152	--	7.4	1.2	10.0
Commercial steam cookers	2.8	22	62	1.2	0.3	1.9	5.2	41	115	2.1	0.7	3.3
Electric vehicle supply equipment	12.6	--	--	0.6	1.5	2.9	78.3	--	--	4.0	10.1	16.6
Faucets	27.5	860	2,591	40.4	3.3	51.9	42.3	1,319	3,976	61.9	5.5	79.0
Gas fireplaces	--	152	--	6.9	--	8.1	--	351	--	15.9	--	18.6
General service lamps (state-regulated)	69.5	--	--	3.5	8.3	15.8	101.7	--	--	5.1	13.1	21.5
High CRI fluorescent lamps	86.3	--	--	4.3	10.3	21.9	19.5	--	--	1.0	2.5	4.0
Portable electric spas	60.9	--	--	3.0	7.3	13.8	88.8	--	--	4.5	11.4	18.8
Residential ventilating fans	17.6	--	--	0.9	2.1	4.0	40.7	--	--	2.1	5.2	8.6
Showerheads	26.0	806	1,665	37.9	3.1	48.8	40.0	1,241	2,561	58.3	5.2	74.4
Spray sprinkler bodies	--	--	5,263	--	--	--	--	--	8,096	--	--	--
Toilets (water closets)	--	--	768	--	--	--	--	--	1,840	--	--	--
Urinals	--	--	117	--	--	--	--	--	216	--	--	--
Water coolers	25.1	--	--	1.3	3.0	6.4	38.5	--	--	2.0	5.0	7.9
<b>Total</b>	<b>465</b>	<b>2,701</b>	<b>10,653</b>	<b>146</b>	<b>56</b>	<b>253</b>	<b>651</b>	<b>4,564</b>	<b>17,184</b>	<b>240</b>	<b>84</b>	<b>380</b>

Assuming a compliance date of 2024 for all the recommended standards. Totals may not sum due to rounding. 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.

## Savings estimates for: [New Jersey](#)

	Potential annual utility bill savings (million 2020\$)		Net present value savings (million 2020\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	21.0	29.5	244.6	no cost	0.0
Commercial dishwashers	4.3	9.2	61.3	9.7	1.1
Commercial fryers	5.2	9.2	47.0	2.9	3.2
Commercial ovens	1.4	2.5	6.8	1.5	6.1
Commercial steam cookers	1.4	2.8	19.0	11.3	0.9
Electric vehicle supply equipment	2.1	13.5	84.0	no cost	0.0
Faucets	45.8	77.8	602.5	no cost	0.0
Gas fireplaces	1.3	2.9	18.8	8.4	1.3
General service lamps (state-regulated)	11.8	17.5	174.6	no cost**	0.4
High CRI fluorescent lamps	12.5	2.9	60.9	4.5	1.5
Portable electric spas	10.3	15.3	113.0	9.9	0.7
Residential ventilating fans	3.0	7.0	50.9	no cost	0.0
Showerheads	33.0	55.6	432.1	no cost	0.0
Spray sprinkler bodies	68.9	121.1	845.7	11.8	0.8
Toilets (water closets)	10.1	27.5	234.8	no cost	0.0
Urinals	1.5	3.2	23.9	no cost	0.0
Water coolers	3.6	5.4	44.9	no cost	0.0
<b>Total</b>	<b>237</b>	<b>403</b>	<b>3,065</b>	<b>21.1</b>	<b>-</b>

Assuming a compliance date of 2024 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 2024 and 2040. 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 2040 for the package of recommended standards divided by the present value of the total additional costs. 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.

\*\*While LEDs are generally more expensive to purchase than incandescent light bulbs, the significantly longer lifetime of LEDs means that over time, consumers actually save money on bulbs in addition to saving money on electricity bills.

## Cumulative savings estimates for: [New Jersey](#)

	Potential cumulative savings through 2040					
	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 purifiers	2,149	--	--	106.8	248.5	467.3
Commercial dishwashers	115	2.8	3.9	134.3	13.3	176.8
Commercial fryers	42	13.1	--	594.1	4.9	703.4
Commercial ovens	104	1.7	--	81.1	12.0	112.7
Commercial steam cookers	57	0.5	1.3	23.4	6.6	37.0
Electric vehicle supply equipment	456	--	--	22.5	52.8	96.5
Faucets	508	15.9	47.8	743.8	58.6	952.4
Gas fireplaces	--	3.3	--	151.0	--	177.0
General service lamps (state-regulated)	1,205	--	--	60.6	141.2	266.0
High CRI fluorescent lamps	840	--	--	42.8	99.7	206.6
Portable electric spas	1,098	--	--	54.6	127.0	239.0
Residential ventilating fans	387	--	--	19.2	44.7	83.3
Showerheads	480	14.9	30.7	698.6	55.5	895.1
Spray sprinkler bodies	--	--	97.2	--	--	--
Toilets (water closets)	--	--	16.8	--	--	--
Urinals	--	--	2.4	--	--	--
Water coolers	463	--	--	23.0	53.4	105.8
<b>Total</b>	<b>7,904</b>	<b>52</b>	<b>200</b>	<b>2,756</b>	<b>918</b>	<b>4,519</b>

Assuming a compliance date of 2024 for all the recommended standards. Totals may not sum due to rounding. 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.