

Appliance Standards Awareness Project 2022 State Appliance Standards Recommendations

Assumptions for national annual shipments, average lifetime, per-unit savings, per-unit incremental cost, and percentage of shipments already meeting standard level

Product	National annual shipments in 2024 (million)	Average lifetime (years)	Per-unit annual savings*	Units	% savings relative to baseline products	Per-unit incremental cost (2020\$)	Adjusted market share of products already meeting standard level**
Air purifiers	10.3	9.0	214	kWh	40%	0	68%
Commercial dishwashers	0.1	13.2	--	--	--	1,100	63%
<i>electricity</i>	--	--	1,347	kWh	20%	--	--
<i>natural gas</i>	--	--	33	MMBtu	38%	--	--
<i>water</i>	--	--	46,106	gallons	38%	--	--
Commercial fryers	0.1	12.0	--	--	--	1,190	25%
<i>electricity</i>	--	--	256	kWh	17%	--	--
<i>natural gas</i>	--	--	46	MMBtu	31%	--	--
Commercial ovens	0.06	12.0	--	--	--	1,521	54%
<i>electricity</i>	--	--	981	kWh	19%	--	--
<i>gas</i>	--	--	16	MMBtu	26%	--	--
Commercial steam cookers	0.01	12.0	--	--	--	1,656	46%
<i>electricity</i>	--	--	4,298	kWh	54%	--	--
<i>natural gas</i>	--	--	25	MMBtu	53%	--	--
<i>water</i>	--	--	81,522	gallons	73%	--	--
Electric vehicle supply equipment	1.6	16.0	30	kWh	40%	0	20%
Faucets	51.0	--	--	--	--	--	--
<i>residential lavatory</i>	31.4	10.0	--	--	--	0	96%
<i>electricity</i>	--	--	32	kWh	38%	--	--
<i>natural gas</i>	--	--	0.20	MMBtu	38%	--	--
<i>water</i>	--	--	909	gallons	38%	--	--
<i>kitchen</i>	16.0	10.0	--	--	--	0	62%
<i>electricity</i>	--	--	78	kWh	17%	--	--
<i>natural gas</i>	--	--	0.49	MMBtu	17%	--	--
<i>water</i>	--	--	2,214	gallons	17%	--	--
<i>public</i>	3.6	3.0	--	--	--	0	99%
<i>electricity</i>	--	--	--	--	--	--	--
<i>natural gas</i>	--	--	2.53	MMBtu	77%	--	--
<i>water</i>	--	--	6,153	gallons	77%	--	--
Gas fireplaces	0.5	--	--	--	--	--	--
<i>heating fireplaces</i>	0.4	15.0	3.2	MMBtu	68%	34	38%
<i>decorative fireplaces</i>	0.04	15.0	3.5	MMBtu	85%	33	68%
High CRI fluorescent lamps	12.1	--	--	--	--	--	--
<i>residential</i>	3.7	15.0	13	kWh	52%	7	**
<i>commercial</i>	8.4	6.7	69	kWh	56%	12	**
Portable electric spas	1.1	--	--	--	--	--	--

Product	National annual shipments in 2024 (million)	Average lifetime (years)	Per-unit annual savings*	Units	% savings relative to baseline products	Per-unit incremental cost (2020\$)	Adjusted market share of products already meeting standard level**
<i>standard/exercise/combination</i>	1.0	10.0	464	kWh	10%	116	76%
<i>inflatable</i>	0.1	3.0	1,311	kWh	47%	104	0%
Residential ventilating fans	12.7	15.0	16	kWh	76%	0	50%
Showerheads	16.7	10.0	--	--	--	0	74%
<i>electricity</i>	--	--	112	kWh	19%	--	--
<i>natural gas</i>	--	--	0.71	MMBtu	19%	--	--
<i>water</i>	--	--	2,179	gallons	19%	--	--
Spray sprinkler bodies	88.0	--	--	--	--	--	--
<i>residential</i>	67.0	10.0	508	gallons	18%	5	10%
<i>commercial</i>	20.9	10.0	508	gallons	18%	5	10%
Toilets (water closets)	17.0	--	--	--	--	--	--
<i>residential</i>	13.4	25.0	861	gallons	20%	0	70%
<i>commercial</i>	3.6	12.0	488	gallons	20%	0	48%
Urinals	0.9	12.0	2,340	gallons	50%	0	68%
Water coolers	3.6	10.0	92	kWh	30%	0	58%

*For portable electric spas (standard/exercise/combination), the per-unit savings take into account sales that already meet the standard.

**We used the estimated current market share of compliant products in the calculation of total savings and costs with the following exceptions: For high CRI fluorescent lamps, the estimated shipments include only T12 lamps (i.e., they do not include shipments of compliant replacement options such as widely-available LED tube lamps), so accounting for the current market share of compliant products is also not needed. For the plumbing products (faucets, showerheads, toilets, and urinals), we adjusted the estimates of the current market shares of compliant products to take into account that a significant portion of current models have efficiency levels that fall in between the baseline levels and the recommended standard levels. Adjusting the market shares avoids overestimating potential savings.