

Appliance Standards Awareness Project 2024 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 2026 (million)	Average lifetime (years)	Per-unit annual savings*	Units	% savings relative to baseline products	Per-unit incremental cost (2022\$)	Adjusted market share of products already meeting standard level**
Commercial battery chargers	2.6	--	--	--	--	--	--
<i>emergency backup lighting</i>	2.6	10.0	9	kWh	61%	3	50%
<i>single-phase lift trucks</i>	0.002	15.0	1,032	kWh	13%	200	0%
<i>three-phase lift trucks</i>	0.005	15.0	4,198	kWh	9%	400	0%
Commercial dishwashers	0.1	13.2	--	--	--	1,229	47%
<i>electricity</i>	--	--	1,347	kWh	20%	--	--
<i>natural gas</i>	--	--	33	MMBtu	38%	--	--
<i>water</i>	--	--	46,106	gallons	38%	--	--
Commercial fryers	0.2	12.0	--	--	--	1,332	26%
<i>electricity</i>	--	--	246	kWh	17%	--	--
<i>natural gas</i>	--	--	46	MMBtu	31%	--	--
Commercial ovens	0.10	12.0	--	--	--	1,703	53%
<i>electricity</i>	--	--	981	kWh	19%	--	--
<i>gas</i>	--	--	16	MMBtu	26%	--	--
Commercial steam cookers	0.02	12.0	--	--	--	1,854	39%
<i>electricity</i>	--	--	4,298	kWh	54%	--	--
<i>natural gas</i>	--	--	25	MMBtu	53%	--	--
<i>water</i>	--	--	81,522	gallons	73%	--	--
Faucets	53.0	--	--	--	--	--	--
<i>residential lavatory</i>	32.6	10.0	--	--	--	0	96%
<i>electricity</i>	--	--	30	kWh	35%	--	--
<i>natural gas</i>	--	--	0.19	MMBtu	35%	--	--
<i>water</i>	--	--	849	gallons	35%	--	--
<i>kitchen</i>	16.6	10.0	--	--	--	0	82%
<i>electricity</i>	--	--	78	kWh	17%	--	--
<i>natural gas</i>	--	--	0.49	MMBtu	17%	--	--
<i>water</i>	--	--	2,214	gallons	17%	--	--
<i>public</i>	3.7	3.0	--	--	--	0	100%
<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>	0.5	15.0	3.2	MMBtu	68%	38	38%
<i>decorative fireplaces</i>	0.04	15.0	3.5	MMBtu	85%	37	68%
High CRI fluorescent lamps	8.3	--	--	--	--	--	--
<i>residential</i>	2.5	15.0	13	kWh	52%	8	**
<i>commercial</i>	5.8	6.7	69	kWh	56%	13	**

Product	National annual shipments in 2026 (million)	Average lifetime (years)	Per-unit annual savings*	Units	% savings relative to baseline products	Per-unit incremental cost (2022\$)	Adjusted market share of products already meeting standard**
Irrigation Controllers	2.5	--	--	--	--	--	--
<i>residential</i>	2.0	15.0	12.4	kWh	15%	4	0%
<i>commercial</i>	0.51	15.0	13.2	kWh	15%	24	0%
Portable electric spas	0.9	--	--	--	--	--	--
<i>standard/exercise/combination</i>	0.9	10.0	462	kWh	10%	130	76%
<i>inflatable</i>	0.1	3.0	1,306	kWh	47%	116	0%
Residential ventilating fans	13.2	15.0	11	kWh	57%	0	84%
Showerheads	17.1	10.0	--	--	--	0	82%
<i>electricity</i>	--	--	112	kWh	19%	--	--
<i>natural gas</i>	--	--	0.71	MMBtu	19%	--	--
<i>water</i>	--	--	2,179	gallons	19%	--	--
Spray sprinkler bodies	94.5	--	--	--	--	--	--
<i>residential</i>	72.0	10.0	470	gallons	18%	5	10%
<i>commercial</i>	22.5	10.0	470	gallons	18%	5	10%
Toilets (water closets)	17.7	--	--	--	--	--	--
<i>residential</i>	13.9	25.0	861	gallons	20%	0	84%
<i>commercial</i>	3.7	12.0	488	gallons	20%	0	50%
Urinals	0.9	12.0	2,340	gallons	50%	0	71%
Water coolers	3.7	10.0	92	kWh	30%	0	39%

*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.