Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: United States

	Potential annual savings in 2040								
	Electricity (TWh)	Natural gas (TBtu)	Water (billion gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (million metric tons)	Summer peak demand (GW)	Winter peak demand (GW)	Utility bills (billion 2025$)
Commercial & industrial fans	11.5	--	--	577	222.6	1.5	1.9	1.5	1.3
Commercial battery chargers	0.2	--	--	13	5.4	0.03	0.03	0.03	0.02
Commercial dishwashers	1.9	7.9	11.7	460	41.0	0.7	0.2	0.2	0.6
Commercial fryers	0.0	34.9	--	1586	11.1	1.9	0.01	0.01	0.5
Commercial ovens	0.5	4.0	--	210	11.8	0.3	0.1	0.1	0.1
Commercial steam cookers	0.2	1.5	3.8	76	3.8	0.1	0.03	0.03	0.1
Computer server power supplies	0.8	--	--	36	13.0	0.1	0.1	0.1	0.1
Electric motors	18.0	--	--	903	330.8	2.3	3.0	2.4	2.5
Faucets	1.7	8.9	43.8	493	40.6	0.7	0.2	0.4	1.3
Gas fireplaces	--	10.1	--	458	3.1	0.5	--	--	0.2
High CRI fluorescent lamps	0.4	--	--	20	8.6	0.1	0.1	0.1	0.1
Portable electric spas	1.7	--	--	93	39.0	0.2	0.2	0.1	0.3
Showerheads	3.8	14.6	65.4	862	88.6	1.3	0.5	0.8	2.1
Spray sprinkler bodies	--	--	417.9	--	--	--	--	--	3.8
Toilets (water closets)	--	--	45.5	--	--	--	--	--	0.9
Urinals	--	--	4.3	--	--	--	--	--	0.1
Water coolers	1.8	--	--	91	35.2	0.2	0.2	0.2	0.2
Total	**43**	**82**	**592**	**5,878**	**855**	**10**	**6**	**6**	**14**

Assuming a compliance date of 2029 for all the products. We have not estimated savings for commercial hot-food holding cabinets, computers and computer monitors, or residential ventilating fans due to insufficient data on the current market.

Cumulative savings estimates through 2050 for: United States

	Potential cumulative savings through 2050							
	Electricity (TWh)	Natural gas (TBtu)	Water (billion gallons)	NO_x (thousand tons)	SO_2 (thousand tons)	CO_2 (million metric tons)	Utility bills (billion 2025$)	Payback period (years)
Commercial & industrial fans	223.4	--	--	12.0	3.9	32.5	24.8	1.3
Commercial battery chargers	4.6	--	--	0.2	0.1	0.7	0.4	3.8
Commercial dishwashers	34.9	142	212	8.4	0.6	12.4	11.5	1.7
Commercial fryers	0.8	583	--	26.5	0.2	31.0	8.8	2.1
Commercial ovens	8.8	67	--	3.5	0.2	4.8	2.2	4.8
Commercial steam cookers	2.6	25	64	1.3	0.1	1.7	2.1	0.7
Computer server power supplies	15.0	--	--	0.8	0.2	2.2	2.1	2.3
Electric motors	321.8	--	--	17.4	5.6	46.7	44.1	1.1
Faucets	28.7	159	747	8.9	0.7	13.1	22.2	0.0
Gas fireplaces	--	191	--	8.7	0.1	10.1	3.1	0.9
High CRI fluorescent lamps	8.1	--	--	0.5	0.3	1.3	1.1	1.8
Portable electric spas	29.7	--	--	1.8	0.6	4.4	4.9	1.3
Showerheads	63.8	249	1,111	14.9	1.5	23.5	36.8	0.0
Spray sprinkler bodies	--	--	7,104	--	--	--	66.0	1.1
Toilets (water closets)	--	--	926	--	--	--	19.4	0.0
Urinals	--	--	72	--	--	--	1.5	0.0
Water coolers	30.3	--	--	1.7	0.5	4.5	3.9	0.0
Total	**772**	**1,416**	**10,237**	**106**	**14**	**189**	**255**	**–**

Assuming a compliance date of 2029 for all the products. We have not estimated savings for commercial hot-food holding cabinets, computers and computer monitors, or residential ventilating fans due to insufficient data on the current market.