

Appliance Standards Awareness Project

2024 State Appliance Standards Recommendations

Savings estimates for: California

	Potential annual savings in 2030						Potential annual savings in 2040					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Commercial dishwashers	33.0	811	1,129	40.1	0.1	49.2	96.6	2,375	3,306	114.1	0.5	135.3
Commercial fryers	9.1	3,041	--	138.8	0.04	163.2	24.3	8,109	--	369.1	0.1	433.0
Commercial ovens	24.0	385	--	19.9	0.1	24.9	64.0	1,026	--	50.8	0.3	60.6
Commercial steam cookers	15.2	121	338	7.0	0.1	9.2	40.5	323	901	17.3	0.2	21.0
Gas fireplaces	--	373	--	16.9	--	19.8	--	1,201	--	54.4	--	63.8
High CRI fluorescent lamps	121.0	--	--	12.4	0.5	22.3	48.3	--	--	3.2	0.2	4.6
Irrigation controllers	--	--	16,084	--	--	--	--	--	51,827	--	--	--
Portable electric spas	124.8	--	--	12.8	0.6	23.0	245.6	--	--	16.5	1.2	23.2
Residential ventilating fans	11.2	--	--	1.1	0.05	2.1	36.0	--	--	2.4	0.2	3.4
Water coolers	77.0	--	--	7.9	0.3	14.2	171.0	--	--	11.5	0.8	16.2
Total	415	4,731	17,551	257	2	328	726	13,034	56,034	639	3	761

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets, we have not estimated savings for these products due to insufficient data on the current market.

Savings estimates for: California

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial dishwashers	32.7	106.4	943.0	0.9
Commercial fryers	34.2	98.5	748.8	2.5
Commercial ovens	8.0	22.3	103.3	5.1
Commercial steam cookers	9.3	27.5	250.4	0.8
Gas fireplaces	4.6	16.1	147.7	0.8
High CRI fluorescent lamps	19.9	9.2	120.3	1.3
Irrigation controllers	266.0	989.7	9,960.8	0.7
Portable electric spas	26.3	58.1	541.9	0.7
Residential ventilating fans	2.4	8.5	81.3	0.0
Water coolers	12.3	27.5	282.5	0.0
Total	416	1,364	13,180	-

Assuming a compliance date of 2026 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 2026 and 2050. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets, we have not estimated savings for these products due to insufficient data on the current market.

Cumulative savings estimates for: California

Potential cumulative savings through 2050							
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	Utility bill savings (million 2022\$)
Commercial dishwashers	1,779	43.7	60.9	2,099.1	8.4	2,480.1	1,999.1
Commercial fryers	462	154.1	--	7,013.6	2.2	8,225.6	1,944.2
Commercial ovens	1,216	19.5	--	964.6	5.7	1,145.1	435.5
Commercial steam cookers	769	6.1	17.1	329.2	3.6	395.0	530.1
Gas fireplaces	--	21.7	--	985.6	--	1,155.2	306.8
High CRI fluorescent lamps	1,495	--	--	122.0	6.8	200.1	262.4
Irrigation controllers	--	--	939.4	--	--	--	18,225.7
Portable electric spas	5,003	--	--	339.4	23.4	469.5	1,194.6
Residential ventilating fans	651	--	--	42.5	3.1	56.4	157.2
Water coolers	3,421	--	--	230.5	16.0	315.9	559.5
Total	21,968	385	2,898	18,926	103	22,506	65,212

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets, we have not estimated savings for these products due to insufficient data on the current market.