

Appliance Standards Awareness Project

2025 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 (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)
Commercial dishwashers	36.4	466	649	25.1	0.2	31.7	104.1	1,332	1,854	67.7	0.5	80.8
Commercial fryers	2.1	1,504	--	68.4	0.01	80.0	7.3	5,155	--	234.	0.04	273.5
Commercial ovens	21.4	154	--	9.3	0.1	12.3	73.3	530	--	29.2	0.4	35.3
Commercial steam cookers	6.9	65	168	3.7	0.0	4.8	23.5	224	578	11.8	0.1	14.2
Gas fireplaces	--	276	--	12.5	--	14.6	--	1,066	--	48.3	--	56.4
High CRI fluorescent lamps	84.5	--	--	9.1	0.4	16.4	44.8	--	--	3.2	0.2	4.5
Residential ventilating fans	9.4	--	--	1.0	0.04	1.8	36.3	--	--	2.6	0.2	3.6
Server power supplies	160.6	--	--	17.4	0.7	31.2	229.5	--	--	16.2	1.2	22.9
Water coolers	62.9	--	--	6.8	0.3	12.2	179.6	--	--	12.7	0.9	17.9
Total	384	2,466	818	153	2	205	698	8,307	2,432	426	4	509

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets and water softeners, 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 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial dishwashers	23.4	73.3	674.9	0.7
Commercial fryers	17.7	65.6	518.6	2.1
Commercial ovens	5.4	19.1	109.0	3.9
Commercial steam cookers	5.0	18.9	171.5	0.6
Gas fireplaces	3.6	14.8	144.5	0.8
High CRI fluorescent lamps	14.7	8.8	110.0	1.1
Residential ventilating fans	2.1	8.9	90.2	0.0
Server power supplies	27.2	39.1	382.7	0.6
Water coolers	10.6	30.6	307.4	0.0
Total	110	279	2,509	-

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets and water softeners, 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 (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial dishwashers	1,978	25.3	35.2	1,285.1	9.8	1,524.1	1,418.2
Commercial fryers	132	92.8	--	4,215.0	0.7	4,922.0	1,234.3
Commercial ovens	1,319	9.5	--	523.0	6.5	624.7	352.8
Commercial steam cookers	423	4.0	10.4	211.8	2.1	251.8	347.4
Gas fireplaces	--	19.5	--	886.0	--	1,034.4	288.1
High CRI fluorescent lamps	1,232	--	--	103.1	5.9	163.0	228.2
Residential ventilating fans	666	--	--	45.1	3.3	58.6	167.8
Server power supplies	4,934	--	--	358.6	24.3	502.3	852.5
Water coolers	3,413	--	--	238.4	16.9	319.6	590.6
Total	14,096	151	46	7,866	69	9,400	5,480

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets and water softeners, we have not estimated savings for these products due to insufficient data on the current market.