

Appliance Standards Awareness Project

2022 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)
Air purifiers	501.1	--	--	51.2	4.2	109.0	693.8	--	--	80.2	7.7	94.3
Commercial dishwashers	24.3	598	832	29.6	0.2	37.1	49.3	1,212	1,687	60.6	0.5	71.4
Commercial fryers	9.3	2,861	--	130.6	0.1	154.0	17.1	5,282	--	241.4	0.2	283.0
Commercial ovens	22.9	367	--	19.0	0.2	24.5	42.3	678	--	35.6	0.5	42.0
Commercial steam cookers	12.5	99	278	5.8	0.1	8.0	23.0	184	513	11.0	0.3	13.1
Electric vehicle supply equipment	50.9	--	--	5.2	0.4	11.1	315.9	--	--	36.5	3.5	43.0
Gas fireplaces	--	528	--	24.0	--	28.1	--	1,220	--	55.3	--	64.8
High CRI fluorescent lamps	239.1	--	--	24.4	2.0	52.6	59.4	--	--	6.9	0.7	8.4
Residential ventilating fans	71.2	--	--	7.3	0.6	15.5	164.2	--	--	19.0	1.8	22.3
Water coolers	75.3	--	--	7.7	0.6	16.6	115.9	--	--	13.4	1.3	16.6
Total	1,006	4,454	1,110	305	8	456	1,481	8,575	2,200	560	17	659

Assuming a compliance date of 2024 for all the recommended standards. Totals may not sum due to rounding. 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 2020\$)		Net present value savings (million 2020\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	105.8	155.3	1252.6	no cost	0.0
Commercial dishwashers	21.7	47.6	316.9	11.1	1.0
Commercial fryers	34.0	65.8	377.8	4.4	2.6
Commercial ovens	8.3	15.7	63.2	2.1	4.9
Commercial steam cookers	6.9	13.7	94.9	12.6	0.8
Electric vehicle supply equipment	10.7	70.7	434.5	no cost	0.0
Gas fireplaces	7.2	17.6	114.5	14.0	0.9
High CRI fluorescent lamps	43.7	11.6	229.7	5.5	1.2
Residential ventilating fans	15.0	36.8	261.9	no cost	0.0
Water coolers	13.6	20.9	169.9	no cost	0.0
Total	267	456	3,316	18.2	–

Assuming a compliance date of 2024 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 2024 and 2040. Totals may not sum due to rounding. The total benefit-cost ratio is calculated as the present value of the total utility bill savings from products sold through 2040 for the package of recommended standards divided by the present value of the total additional costs. 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 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Air purifiers	8,673	--	--	984.5	87.7	1,455.5
Commercial dishwashers	513	12.6	17.6	630.3	5.2	766.5
Commercial fryers	188	58.1	--	2,654.9	1.9	3,122.1
Commercial ovens	465	7.5	--	390.6	4.7	483.8
Commercial steam cookers	253	2.0	5.6	120.3	2.6	155.2
Electric vehicle supply equipment	1,839	--	--	208.5	18.8	279.6
Gas fireplaces	--	11.6	--	525.1	--	615.4
High CRI fluorescent lamps	2,373	--	--	275.1	24.6	528.1
Residential ventilating fans	1,560	--	--	177.3	15.9	252.8
Water coolers	1,391	--	--	158.0	14.1	268.2
Total	17,256	92	23	6,125	175	7,927

Assuming a compliance date of 2024 for all the recommended standards. Totals may not sum due to rounding. 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.