

Appliance Standards Awareness Project

2024 State Appliance Standards Recommendations

Savings estimates for: [Hawaii](#)

	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 battery chargers	0.4	--	--	0.4	0.4	0.1	1.3	--	--	0.9	0.9	0.4
Commercial dishwashers	1.2	30	42	2.5	1.0	2.0	3.6	88	122	6.4	2.6	5.6
Commercial fryers	0.3	112	--	5.4	0.3	6.1	0.9	300	--	14.2	0.6	16.2
Commercial ovens	0.9	14	--	1.5	0.7	1.0	2.4	38	--	3.3	1.7	2.6
Commercial steam cookers	0.6	4	12	0.7	0.5	0.4	1.5	12	33	1.5	1.1	1.0
Gas fireplaces	--	--	--	--	--	--	--	--	--	--	--	--
Irrigation controllers	--	--	987	--	--	--	--	--	3,180	--	--	--
Total	3	161	1,041	10	3	10	10	437	3,336	26	7	26

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: [Hawaii](#)

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.1	0.3	3.0	0.6
Commercial dishwashers	2.0	6.3	58.0	0.6
Commercial fryers	3.6	10.3	94.5	0.9
Commercial ovens	0.7	2.0	15.1	2.2
Commercial steam cookers	0.5	1.5	13.7	0.5
Gas fireplaces	–	–	–	–
Irrigation controllers	16.3	60.7	611.2	0.7
Total	23	81	796	–

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: [Hawaii](#)

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 battery chargers	24	--	--	17.0	17.6	6.5	6.2
Commercial dishwashers	66	1.6	2.3	119.8	48.2	103.6	119.1
Commercial fryers	17	5.7	--	270.3	12.6	307.2	203.0
Commercial ovens	45	0.7	--	64.7	33.1	50.4	38.2
Commercial steam cookers	28	0.2	0.6	30.5	21.0	19.7	28.4
Gas fireplaces	--	--	--	--	--	--	--
Irrigation controllers	--	--	57.6	--	--	--	1,118.4
Total	180	8	61	502	133	487	1,513

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.