

Appliance Standards Awareness Project

2022 State Appliance Standards Recommendations

Savings estimates for: Washington

	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	200.9	--	--	5.3	3.5	13.6	278.2	--	--	7.4	4.8	18.1
Commercial ovens	4.4	71	--	3.3	0.1	4.1	8.1	131	--	6.1	0.1	7.5
Electric vehicle supply equipment	11.1	--	--	0.3	0.2	0.8	69.0	--	--	1.8	1.2	4.5
Portable electric spas	81.7	--	--	2.1	1.4	5.5	119.1	--	--	3.2	2.1	7.8
Residential ventilating fans	6.7	--	--	0.2	0.1	0.5	15.6	--	--	0.4	0.3	1.0
Total	305	71	--	11	5	24	490	131	--	19	9	39

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.

In order to reflect WA HB 1619 as introduced, air purifiers savings utilize ENERGY STAR Version 2.0 levels and residential ventilating fans savings utilize ENERGY STAR Version 4.1 levels.

Savings estimates for: Washington

	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	19.6	28.7	201.8	7.9	0.9
Commercial ovens	1.0	1.9	3.6	1.3	7.4
Electric vehicle supply equipment	1.1	7.1	44.3	no cost	0.0
Portable electric spas	8.0	12.3	82.8	6.3	1.0
Residential ventilating fans	0.7	1.6	11.5	no cost	0.0
Total	30	52	344	7.2	–

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.

In order to reflect WA HB 1619 as introduced, air purifiers savings utilize ENERGY STAR Version 2.0 levels and residential ventilating fans savings utilize ENERGY STAR Version 4.1 levels.

Cumulative savings estimates for: Washington

	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	3,477	--	--	94.4	59.6	230.5
Commercial ovens	90	1.4	--	67.5	1.5	82.4
Electric vehicle supply equipment	402	--	--	10.7	6.8	26.2
Portable electric spas	1,472	--	--	40.1	25.3	97.7
Residential ventilating fans	148	--	--	4.0	2.5	9.7
Total	5,588	1	–	217	96	447

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.

In order to reflect WA HB 1619 as introduced, air purifiers savings utilize ENERGY STAR Version 2.0 levels and residential ventilating fans savings utilize ENERGY STAR Version 4.1 levels.