

Appliance Standards Awareness Project

2023 State Appliance Standards Recommendations

Savings estimates for: [Massachusetts](#)

	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	90.2	--	--	14.6	1.6	10.3	147.6	--	--	19.3	2.1	13.5
Gas fireplaces	--	28	--	1.3	--	1.5	--	77	--	3.5	--	4.1
Total	90	28	--	16	2	12	148	77	--	23	2	18

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding.

	Potential annual utility bill savings (million 2021\$)		Net present value savings (million 2021\$)	Benefit-cost ratio	Payback period (years)
	In 2030	In 2040			
Air purifiers	21.3	36.8	260.3	11.4	0.7
Gas fireplaces	0.4	1.2	7.8	14.9	0.7
Total	22	38	268	11.5	--

Assuming a compliance date of 2025 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 2025 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.

Cumulative savings estimates for: [Massachusetts](#)

	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	1,698	--	--	235.4	25.0	163.9
Gas fireplaces	--	0.7	--	29.8	--	35.0
Total	1,698	1	--	265	25	199

Assuming a compliance date of 2025 for all the recommended standards. Totals may not sum due to rounding.