

## Appliance Standards Awareness Project

### 2022 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 <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air purifiers	100.6	--	--	15.1	1.8	10.7	139.2	--	--	18.9	2.0	12.3
Gas fireplaces	--	33	--	1.5	--	1.8	--	77	--	3.5	--	4.1
<b>Total</b>	<b>101</b>	<b>33</b>	<b>--</b>	<b>17</b>	<b>2</b>	<b>12</b>	<b>139</b>	<b>77</b>	<b>--</b>	<b>22</b>	<b>2</b>	<b>16</b>

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

	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	23.7	33.9	275.6	no cost	0.0
Gas fireplaces	0.5	1.1	7.4	14.4	0.8
<b>Total</b>	<b>24</b>	<b>35</b>	<b>283</b>	<b>513.0</b>	<b>--</b>

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.

Cumulative savings estimates for: [Massachusetts](#)

	Potential cumulative savings through 2040					
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO <sub>x</sub> (tons)	SO <sub>2</sub> (tons)	CO <sub>2</sub> (thous. MT)
Air purifiers	1,740	--	--	244.8	26.6	161.6
Gas fireplaces	--	0.7	--	33.0	--	38.7
<b>Total</b>	<b>1,740</b>	<b>1</b>	<b>--</b>	<b>278</b>	<b>27</b>	<b>200</b>

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