

## Appliance Standards Awareness Project

### 2019 State Appliance Standards Recommendations

#### Savings estimates for: Delaware

	Potential annual savings in 2025						Potential annual savings in 2035					
	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 compressors	0.5	--	--	0.1	0.1	0.2	1.3	--	--	0.3	0.3	0.5
Air purifiers	4.4	--	--	0.8	1.2	1.7	8.8	--	--	1.7	2.2	3.4
Commercial dishwashers	0.5	12	16	0.6	0.1	0.8	1.4	34	47	1.8	0.4	2.3
Commercial fryers	0.1	44	--	2.0	0.02	2.3	0.2	116	--	5.3	0.1	6.2
Commercial hot-food holding cabinets	0.5	--	--	0.1	0.1	0.2	1.4	--	--	0.3	0.3	0.5
Commercial steam cookers	0.9	5	15	0.4	0.2	0.6	2.3	12	39	1.0	0.6	1.5
Computers and computer monitors	21.2	--	--	3.9	5.8	8.3	26.6	--	--	5.1	6.5	10.1
Faucets	12.2	38	237	4.0	3.3	6.8	27.0	83	522	8.9	6.6	14.8
High CRI fluorescent lamps	8.9	--	--	1.6	2.4	3.5	2.6	--	--	0.5	0.6	1.0
Portable air conditioners	2.5	--	--	0.5	0.7	1.0	7.5	--	--	1.4	1.8	2.9
Portable electric spas	0.6	--	--	0.1	0.2	0.2	1.3	--	--	0.2	0.3	0.5
Residential ventilating fans	0.5	--	--	0.1	0.1	0.2	1.2	--	--	0.2	0.3	0.5
Showerheads	8.6	26	113	2.8	2.3	4.7	19.1	57	250	6.2	4.7	10.4
Spray sprinkler bodies	--	--	186	--	--	--	--	--	373	--	--	--
Toilets (water closets)	--	--	63	--	--	--	--	--	198	--	--	--
Uninterruptible power supplies	4.3	--	--	0.8	1.2	1.7	5.8	--	--	1.1	1.4	2.2
Urinals	--	--	9	--	--	--	--	--	23	--	--	--
Water coolers	1.1	--	--	0.2	0.3	0.4	2.4	--	--	0.4	0.6	0.9
<b>Total</b>	<b>67</b>	<b>124</b>	<b>638</b>	<b>18</b>	<b>18</b>	<b>33</b>	<b>109</b>	<b>303</b>	<b>1,452</b>	<b>35</b>	<b>27</b>	<b>58</b>

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.

	Potential annual utility bill savings (million 2017\$)		Net present value savings (million 2017\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Air compressors	0.04	0.1	0.5	3.5	2.9
Air purifiers	0.7	1.5	7.6	3.1	2.6
Commercial dishwashers	0.4	1.2	7.5	10.5	1.1
Commercial fryers	0.5	1.5	6.5	2.8	3.3
Commercial hot-food holding cabinets	0.1	0.1	0.7	3.3	3.0
Commercial steam cookers	0.3	0.9	5.8	11.4	0.9
Computers and computer monitors	2.7	3.5	16.6	2.4	2.2
Faucets	5.2	12.7	91.6	no cost	0.0
High CRI fluorescent lamps	1.0	0.3	4.5	3.1	2.5
Portable air conditioners	0.4	1.3	6.2	3.9	2.4
Portable electric spas	0.1	0.2	1.6	no cost	0.0
Residential ventilating fans	0.1	0.2	1.5	no cost	0.0
Showerheads	3.0	7.3	53.3	no cost	0.0
Spray sprinkler bodies	2.2	5.0	31.9	8.3	1.0
Toilets (water closets)	0.7	2.7	23.7	no cost	0.0
Uninterruptible power supplies	0.5	0.6	3.2	2.6	2.2
Urinals	0.1	0.3	2.1	no cost	0.0
Water coolers	0.1	0.2	1.8	no cost	0.0
<b>Total</b>	<b>18</b>	<b>40</b>	<b>267</b>	<b>9.6</b>	<b>-</b>

Assuming a compliance date of 2021 for almost 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 2021 and 2035. 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 2035 for the package of recommended standards divided by the present value of the total additional costs.

## Cumulative savings estimates for: Delaware

	Potential cumulative savings through 2035					
	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 compressors	11	--	--	2.1	3.0	4.3
Air purifiers	93	--	--	17.4	24.5	35.5
Commercial dishwashers	12	0.3	0.4	15.2	3.2	19.8
Commercial fryers	2	1.0	--	48.0	0.5	56.3
Commercial hot-food holding cabinets	12	--	--	2.3	3.2	4.7
Commercial steam cookers	21	0.1	0.3	8.9	5.4	13.7
Computers and computer monitors	322	--	--	60.6	85.8	124.5
Faucets	270	0.8	5.2	88.8	71.3	147.9
High CRI fluorescent lamps	88	--	--	16.5	23.8	34.2
Portable air conditioners	65	--	--	12.3	17.2	25.1
Portable electric spas	13	--	--	2.4	3.4	4.9
Residential ventilating fans	12	--	--	2.3	3.2	4.6
Showerheads	191	0.6	2.5	62.1	50.4	103.7
Spray sprinkler bodies	--	--	3.9	--	--	--
Toilets (water closets)	--	--	1.6	--	--	--
Uninterruptible power supplies	69	--	--	13.0	18.4	26.7
Urinals	--	--	0.2	--	--	--
Water coolers	24	--	--	4.4	6.2	9.1
<b>Total</b>	<b>1,205</b>	<b>3</b>	<b>14</b>	<b>356</b>	<b>320</b>	<b>615</b>

Assuming a compliance date of 2021 for almost all the recommended standards. Totals may not sum due to rounding.