

Appliance Standards Awareness Project

2025 State Appliance Standards Recommendations

Savings estimates for: **Pennsylvania**

	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 (thousand metric tons)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)
Commercial battery chargers	3.7	--	--	0.2	0.3	0.9	13.7	--	--	0.8	1.2	3.3
Commercial dishwashers	12.1	155	216	7.8	1.1	11.3	34.6	443	617	22.0	2.9	31.7
Commercial fryers	0.7	500	--	22.7	0.1	26.6	2.4	1,715	--	77.9	0.2	91.3
Commercial ovens	7.1	51	--	2.8	0.6	4.5	24.4	176	--	9.3	2.1	15.2
Commercial steam cookers	2.3	22	56	1.1	0.2	1.7	7.8	74	192	3.8	0.7	5.8
Faucets	59.7	328	1,802	18.5	5.4	32.4	170.7	936	5,142	51.8	14.4	90.3
Gas fireplaces	--	133	--	6.0	--	7.0	--	511	--	23.2	--	27.1
High CRI fluorescent lamps	36.7	--	--	2.2	3.3	9.2	18.9	--	--	1.0	1.6	4.5
Portable electric spas	99.1	--	--	6.0	9.0	24.9	247.9	--	--	13.7	20.9	59.3
Residential ventilating fans	3.7	--	--	0.2	0.3	0.9	14.2	--	--	0.8	1.2	3.4
Server power supplies	79.1	--	--	4.8	7.2	19.9	112.9	--	--	6.2	9.5	27.0
Showerheads	44.6	244	918	13.8	4.1	24.1	127.4	698	2,623	38.7	10.7	67.4
Spray sprinkler bodies	--	--	234	--	--	--	--	--	668	--	--	--
Toilets (water closets)	--	--	449	--	--	--	--	--	1,676	--	--	--
Urinals	--	--	83	--	--	--	--	--	285	--	--	--
Water coolers	20.5	--	--	1.2	1.9	5.2	58.6	--	--	3.2	4.9	14.0
Total	369	1,433	3,758	87	34	169	834	4,553	11,203	252	70	440

Assuming a compliance date of 2027 for all the recommended standards. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Savings estimates for: [Pennsylvania](#)

	Potential annual utility bill savings (million 2023\$)		Net present value savings (million 2023\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.3	1.0	6.7	3.3
Commercial dishwashers	6.6	21.1	187.4	0.9
Commercial fryers	4.0	14.3	89.3	2.9
Commercial ovens	1.1	4.0	12.0	6.1
Commercial steam cookers	1.5	5.7	50.8	0.7
Faucets	47.9	154.4	1,526.2	0.0
Gas fireplaces	1.4	5.8	50.6	1.1
High CRI fluorescent lamps	3.9	2.4	25.3	1.8
Portable electric spas	15.7	42.3	393.5	0.6
Residential ventilating fans	0.6	2.4	23.6	0.0
Server power supplies	8.1	12.0	102.8	1.0
Showerheads	27.5	88.1	870.2	0.0
Spray sprinkler bodies	4.5	14.9	138.0	0.6
Toilets (water closets)	8.7	37.4	468.8	0.0
Urinals	1.6	6.3	60.8	0.0
Water coolers	2.1	6.2	60.5	0.0
Total	136	418	4,066	-

Assuming a compliance date of 2027 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 2027 and 2050. While we are recommending the adoption of state-level standards for commercial hot-food holding cabinets, computers and computer monitors, and water softeners, we have not estimated savings for these products due to insufficient data on the current market.

Cumulative savings estimates for: [Pennsylvania](#)

	Potential cumulative savings through 2050						
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thousand metric tons)	Utility bill savings (million 2023\$)
Commercial battery chargers	252	--	--	13.9	21.0	59.2	18.7
Commercial dishwashers	658	8.4	11.7	417.9	55.0	599.7	400.9
Commercial fryers	44	30.9	--	1401.5	3.7	1643.6	254.0
Commercial ovens	439	3.2	--	168.0	36.6	270.8	71.6
Commercial steam cookers	141	1.3	3.5	68.5	11.7	103.9	103.9
Faucets	3,243	17.8	97.7	985.2	271.2	1701.5	2949.3
Gas fireplaces	--	9.4	--	424.8	--	495.9	104.9
High CRI fluorescent lamps	530	--	--	29.9	47.1	126.4	60.8
Portable electric spas	4,861	--	--	268.8	407.5	1140.3	822.1
Residential ventilating fans	260	--	--	14.3	21.6	60.9	44.1
Server power supplies	2,428	--	--	134.8	206.1	572.2	253.9
Showerheads	2,420	13.3	49.8	734.5	202.4	1269.0	1681.0
Spray sprinkler bodies	--	--	12.7	--	--	--	286.1
Toilets (water closets)	--	--	34.2	--	--	--	785.6
Urinals	--	--	5.1	--	--	--	116.0
Water coolers	1,113	--	--	61.5	93.1	261.0	116.6
Total	16,388	84	215	4,724	1,377	8,304	8,070

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