Appliance Standards Awareness Project

2027 State Appliance Standards Savings Potential

Annual savings estimates in 2040 for: Pennsylvania

	Potential annual savings in 2040								
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO_x (tons)	SO_2 (tons)	CO_2 (thousand metric tons)	Summer peak demand (MW)	Winter peak demand (MW)	Utility bills (million 2025$)
Commercial & industrial fans	417.3	--	--	23.8	9.3	74.3	66.2	56.5	44.7
Commercial battery chargers	10.7	--	--	0.6	0.2	1.9	1.2	1.2	1.1
Commercial dishwashers	87.2	376	561	22.0	2.1	35.4	5.7	13.5	29.1
Commercial fryers	2.3	1,633	--	74.1	0.5	86.8	0.2	0.3	20.6
Commercial ovens	23.2	168	--	8.9	0.6	13.0	2.2	3.4	5.1
Commercial steam cookers	7.4	71	183	3.6	0.2	5.1	0.7	1.1	6.2
Computer server power supplies	33.7	--	--	1.9	0.8	6.0	3.8	3.8	4.3
Electric motors	616.4	--	--	35.2	13.8	109.8	101.6	84.2	84.9
Faucets	78.1	559	2,396	29.8	1.9	43.5	8.3	14.6	80.3
Gas fireplaces	--	436	--	19.7	0.1	23.0	--	--	6.2
High CRI fluorescent lamps	18.9	--	--	1.1	0.4	3.4	3.7	3.5	2.7
Portable electric spas	130.2	--	--	7.4	2.9	23.2	6.4	6.4	26.5
Showerheads	173.4	952	3,575	53.0	4.2	81.2	18.4	32.4	133.5
Spray sprinkler bodies	--	--	9,243	--	--	--	--	--	90.5
Toilets (water closets)	--	--	2,454	--	--	--	--	--	58.1
Urinals	--	--	240	--	--	--	--	--	5.7
Water coolers	58.7	--	--	3.3	1.3	10.5	6.7	6.7	7.5
Total	**1,658**	**4,194**	**18,652**	**285**	**38**	**517**	**225**	**228**	**607**

Assuming a compliance date of 2029 for all the products. We have not estimated savings for commercial hot-food holding cabinets, computers and computer monitors, or residential ventilating fans due to insufficient data on the current market.

Cumulative savings estimates through 2050 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 bills (million 2025$)	Payback period (years)
Commercial & industrial fans	8,045.9	--	--	450.6	93.4	1,546.5	859.6	1.2
Commercial battery chargers	200.5	--	--	11.1	2.3	38.3	20.2	3.0
Commercial dishwashers	1,576.5	6.8	10.1	395.7	20.4	660.4	532.6	1.7
Commercial fryers	38.8	27.3	--	1,237.8	8.3	1,449.9	342.0	2.3
Commercial ovens	387.7	2.8	--	148.6	5.4	222.2	84.0	5.4
Commercial steam cookers	124.3	1.2	3.1	60.6	1.8	86.3	104.8	0.6
Computer server power supplies	656.7	--	--	37.2	7.9	127.5	83.4	2.6
Electric motors	10,995.3	--	--	616.9	129.7	2,108.3	1,512.7	1.1
Faucets	1,327.6	10.0	40.9	525.5	18.6	780.5	1,399.1	0.0
Gas fireplaces	--	8.2	--	373.3	2.4	435.8	118.0	1.0
High CRI fluorescent lamps	389.8	--	--	23.0	5.4	77.9	53.5	1.8
Portable electric spas	2,297.0	--	--	128.8	27.2	440.2	471.6	0.9
Showerheads	2,947.3	16.2	60.8	898.1	39.6	1,419.3	2,308.8	0.0
Spray sprinkler bodies	--	--	157.1	--	--	--	1,574.5	1.0
Toilets (water closets)	--	--	49.8	--	--	--	1,226.5	0.0
Urinals	--	--	4.0	--	--	--	97.7	0.0
Water coolers	997.6	--	--	55.8	11.8	190.7	127.0	0.0
Total	**29,985**	**72**	**326**	**4,963**	**374**	**9,584**	**10,916**	**–**

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