Appliance Standards Awareness Project

2025 State Clean Lighting

Savings estimates for: New Jersey

State	Potential annual reductions in 2030			Potential annual electricity savings in 2030 (GWh)	Potential annual electricity bill savings in 2030 (million 2023$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO_2 emissions (thous. MT)		
New Jersey	33.1	0.68	159	833	114

Assuming a compliance date of 2027 for linear fluorescent lightbulbs and pin-based compact fluorescent lightbulbs and 2026 for screw-based compact fluorescent lightbulbs.

State	Potential cumulative reductions through 2050			Cumulative electricity savings through 2050 (GWh)	Cumulative electricity bill savings through 2050 (million 2023$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO_2 emissions (thous. MT)		
New Jersey	286	10.6	2,432	12,576	1,789

Assuming a compliance date of 2027 for linear fluorescent lightbulbs and pin-based compact fluorescent lightbulbs and 2026 for screw-based compact fluorescent lightbulbs.

Fluorescent vs. LED: Economic analysis for most-shipped lamps (commercial sector)

Fluorescent lamp type	LED incremental cost (2023$)	First-year electricity bill savings from LED (2023$)	Life-cycle cost savings from LED (2023$)	Payback period (years)
4-foot T12 – 40 W	2.32	10.81	54	0.2
4-foot T12 – 34 W	3.56	7.76	44	0.5
4-foot T8	0.12	5.26	33	0.02
4-foot T5	1.55	6.96	48	0.2
4-foot T5 high output	4.23	13.82	91	0.3
Pin-based CFL	2.29	8.69	26	0.3