Appliance Standards Awareness Project

2025 State Clean Lighting

Savings estimates for: Oklahoma

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)		
Oklahoma	13.3	0.13	45	360	32

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)		
Oklahoma	115	1.7	622	5,190	471

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	7.11	37	0.3
4-foot T12 – 34 W	3.56	5.11	29	0.7
4-foot T8	0.12	3.46	23	0.03
4-foot T5	1.55	4.58	33	0.3
4-foot T5 high output	4.23	9.09	61	0.5
Pin-based CFL	2.29	5.68	19	0.4