

Appliance Standards Awareness Project
2026 State Clean Lighting
Savings estimates for: West Virginia

State	Potential annual reductions in 2035			
	Mercury in lamps shipped (lbs)	CO ₂ emissions (thous. MT)	Potential annual electricity savings in 2035 (GWh)	Potential annual electricity bill savings in 2035 (million 2024\$)
West Virginia	0.6	7	40	4

Assuming a compliance date of 2028.

State	Potential cumulative reductions through 2050			
	Mercury in lamps shipped (lbs)	CO ₂ emissions (thous. MT)	Cumulative electricity savings through 2050 (GWh)	Cumulative electricity bill savings through 2050 (million 2024\$)
West Virginia	11	113	484	53

Assuming a compliance date of 2028.

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

Fluorescent lamp type	LED incremental cost (2024\$)	First-year electricity bill savings from LED (2024\$)	Life-cycle cost savings from LED (2024\$)	Payback period (years)
4-foot T12 – 40 W	1.43	7.93	40	0.2
4-foot T12 – 34 W	4.71	5.69	31	0.8
4-foot T8	0.55	3.94	25	0.1
4-foot T5	3.08	5.10	33	0.6
4-foot T5 high output	5.45	10.16	65	0.5