Appliance Standards Awareness Project

2024 State Clean Lighting

Savings estimates for: Washington

State	Potential annual reductions in 2035			Potential annual electricity savings in 2035 (GWh)	Potential annual electricity bill savings in 2035 (million 2022$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO_2 emissions (thous. MT)		
Washington	8	0.002	32	588	37

Assuming a compliance date of 2029 for linear fluorescent lightbulbs and compact fluorescent lightbulbs.

State	Potential cumulative reductions through 2050			Cumulative electricity savings through 2050 (GWh)	Cumulative electricity bill savings through 2050 (million 2022$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO_2 emissions (thous. MT)		
Washington	146	0.02	319	6,103	393

Assuming a compliance date of 2029 for linear fluorescent lightbulbs and compact fluorescent lightbulbs.

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

Fluorescent lamp type	LED incremental cost (2022$)	First-year electricity bill savings from LED (2022$)	Life-cycle cost savings from LED (2022$)	Payback period (years)
4-foot T12 – 40 W	2.16	5.21	20	0.4
4-foot T12 – 34 W	3.32	3.74	16	0.9
4-foot T8	0.11	2.53	13	0.04
4-foot T5	1.45	3.36	18	0.4
4-foot T5 high output	3.95	6.67	34	0.6
Pin-based CFL	2.14	4.17	10	0.5