

**Appliance Standards Awareness Project**  
**2024 State Clean Lighting**  
**Savings estimates for: Utah**

| State | Potential annual reductions in 2030 |                                     |                                       | Potential annual electricity savings in 2030 (GWh) | Potential annual electricity bill savings in 2030 (million 2022\$) |
|-------|-------------------------------------|-------------------------------------|---------------------------------------|--|--|
|       | Mercury in lamps shipped (lbs)      | Power plant mercury emissions (lbs) | CO <sub>2</sub> emissions (thous. MT) |  |  |
| Utah  | 9.9                                 | 0.42                                | 84                                    | 346  | 26   |

Assuming a compliance date of 2026 for linear fluorescent lightbulbs and 2025 for 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 <sub>2</sub> emissions (thous. MT) |   |   |
| Utah  | 100  | 4.7                                 | 987                                   | 4,551   | 361   |

Assuming a compliance date of 2026 for linear fluorescent lightbulbs and 2025 for 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                          | 6.36  | 28  | 0.3                    |
| 4-foot T12 – 34 W     | 3.32                          | 4.57  | 22  | 0.7                    |
| 4-foot T8             | 0.11                          | 3.09  | 17  | 0.04                   |
| 4-foot T5             | 1.45                          | 4.10  | 25  | 0.4                    |
| 4-foot T5 high output | 3.95                          | 8.14  | 47  | 0.5                    |
| Pin-based CFL         | 2.14                          | 5.08  | 15  | 0.4                    |