

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

| 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 ₂ emissions (thous. MT) | | |
| Vermont | 1.7 | -- | 4 | 58 | 9 |

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 ₂ emissions (thous. MT) | | |
| Vermont | 17 | 0.00004 | 62 | 759 | 132 |

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 | 14.29 | 64 | 0.2 |
| 4-foot T12 – 34 W | 3.32 | 10.26 | 52 | 0.3 |
| 4-foot T8 | 0.11 | 6.95 | 38 | 0.02 |
| 4-foot T5 | 1.45 | 9.20 | 56 | 0.2 |
| 4-foot T5 high output | 3.95 | 18.27 | 108 | 0.2 |
| Pin-based CFL | 2.14 | 11.42 | 31 | 0.2 |