

# Technology Profile

## Advanced Lighting

Recent innovations are transforming lighting technology beyond energy savings. Advanced Lighting Solutions offer enhanced ease of control, color rendering, extended life, and better performance in cold environments. PECO offers incentives for commercial, industrial, and institutional customers who install high-efficiency lighting and energy-saving controls.

### Manage Costs

Businesses that incorporate advanced lighting, like LEDs, can achieve significant savings. Facilities can further reduce costs with advanced controls, paying for the right amount of light when and where it's needed—nothing more.

- Think of light quality, not quantity: More is not necessarily better.
- Match each business function to a desired amount and quality of light.
- Install task lights wherever necessary to reduce ambient light.
- Maximize the use of daylighting.
- Use energy-efficient lighting components, controls, and systems.

### Enjoy the Benefits of LEDs

LEDs use significantly less energy than traditional incandescent bulbs. On average, LED troffers last 2–3 times longer than linear fluorescent bulbs. Better duration and reduced wattage requirements mean less energy use, reduced maintenance costs, and greater savings. Plus, LEDs:

- Emit light in a specific direction, reducing the need for reflectors and diffusers.
- Reach full brightness instantly.
- Perform optimally in colder temperatures.
- Integrate into a control system for superior flexibility.



## Save More With Advanced Controls

High-efficiency lighting combined with advanced control strategies can further reduce energy use.\* Advanced controls enable lighting-level adjustments based on the time of day or workspace usage:

- **Occupancy sensors:**  
Use motion, heat, or sound to adjust lighting levels automatically when someone enters a room.
- **Dimmer controls:**  
Dimming reduces a bulb's effective wattage and light output, saving additional energy.
- **Motion sensor controls:**  
Turn on when detecting motion and turn off shortly after. In outdoor applications, sensors pair ideally with photosensor controls.
- **Photosensor controls:**  
Detect ambient light, preventing outdoor lights from turning on during daylight hours.
- **Daylight harvesting:**  
Adjusts lighting levels in relation to natural light within a workspace.

Integration through a wired or wireless networked system maximizes control over energy costs and system design—so you save even more. Facility managers can apply daylight harvesting settings across similar areas of a building or configure different common areas to lighting levels suitable for the space. Networked systems allow individuals to control their personal workspace while still automating lighting in shared areas.

## Incentives for Lighting and Controls

PECO offers three options for incentivizing advanced lighting installations:

1. Get instant lighting discounts from participating distributors. Visit [peco.com/InstantDiscounts](https://peco.com/InstantDiscounts) to learn more about the products that are discounted.
  - Save \$10 on exit signs.
  - Save \$20 to \$110 on high-bay, low-bay, and exterior fixtures.
  - Save even more on additional lighting products!
2. Qualify for an Energy Analysis and take advantage of Small Business Solutions. Visit [peco.com/SmallBusiness](https://peco.com/SmallBusiness) to learn more.
3. Submit a rebate application to qualify for higher incentive levels on a wide range of lighting and control technologies. Learn more about available incentives at [peco.com/business](https://peco.com/business).

## Typical Advanced Lighting Solutions

### Interior Lighting

- LED High-Bay Fixtures and/or Retrofit Kit
- LED Refrigeration Case Lighting (Reach-In)
- LED Replacement Lamps (Tubes)
- Permanent Fixture Removal
- Unitary Sensor Controls
- Centralized (Networked) Lighting Controls

### Exterior Fixtures

- ENERGY STAR® Hard-Wired CFL Fixture: Outdoor Omni- or Uni-Directional Wall/Ceiling/Ground/Pole Mount, Recessed Downlights—including Retrofit Modules
- ENERGY STAR Integral LED Fixture: Outdoor Recessed Downlight and Retrofit Module
- LED Outdoor Flood Light Fixtures
- LED Parking Garage and Canopy Fixtures and Retrofit Kits
- LED Pole/Arm-Mounted Parking and Roadway Fixtures and Retrofit Kits
- LED Wall-Mount Fixtures and Retrofit Kits

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For more information, call us at **1-844-4BIZ-SAVE** (1-844-424-9728) or visit [peco.com/business](https://peco.com/business).

\*[energy.gov/energysaver/lighting-choices-save-you-money](https://energy.gov/energysaver/lighting-choices-save-you-money)