

FOCUS ON LED LIGHTING

The Problem

The La Crosse Law Enforcement Center had fluorescent T8 fixtures throughout the majority of the facility. Due to constant building occupancy, some lights had very long burn hours and needed frequent replacement. Not only was this recurring equipment replacement costly, in some locations it was also posing a significant safety hazard.

The La Crosse Law Enforcement Center houses inmates in a dorm-style setting called pods. Lighting fixtures in these pods are approximately 20 feet high, and require a lift for bulb replacement along with inmate relocation. The shuffling of prison inmates to replace fluorescent light bulbs was an unnecessary safety threat leading to major maintenance issues for this facility.

The Solution

In October 2015, a walkthrough of the facility was conducted with a Focus on Energy Advisor and local Trade Ally, where it was suggested LED tube lights be installed in existing linear fluorescent fixtures.

LEDs offer many advantages over fluorescent options including longer life expectancy (80,000 hours vs 42,000), lower wattage for equivalent light levels, and no impact from frequent on/off switching. LEDs offer other added benefits like instant on capabilities, improved color rendering, and lower environmental impact due to having no mercury.

Although the initial cost of LEDs are higher, the energy and maintenance savings made this technology the perfect solution for the facility's needs. As an added bonus, the retrofit process was exceptionally fast due to using existing fixture housing.

Project Breakdown:

- **Equipment Installed:**
  Replaced fluorescent T8 lamps with LED technology
- **Benefits:**
  12+ Years estimated useful life
- **Annual Energy Savings:**
  269,730 kWh
  38 on peak kW
- **Focus on Energy Incentive:**
  $20,933
- **Payback:**
  4 Years

> *Working with Focus on Energy added significant value to this project. Not only was the process relatively easy and seamless, but it also was a maintenance time saver.*

Jim Speropulos, Facility Director
La Crosse County - Facilities Department

REDUCING ENERGY WASTE ACROSS WISCONSIN

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