



CASE STUDY: Public Safety - Rescue

LED Lighting | Forged in America™

Project: W.F. Bruen Rescue Squad

Highlights: Bruen Rescue responded to 1,832 calls for help in 2012

Address: 1116 Redmill Rd, Rensselaer NY 12144

Owner: Municipality

LED Installation: 2013



66% SAVINGS

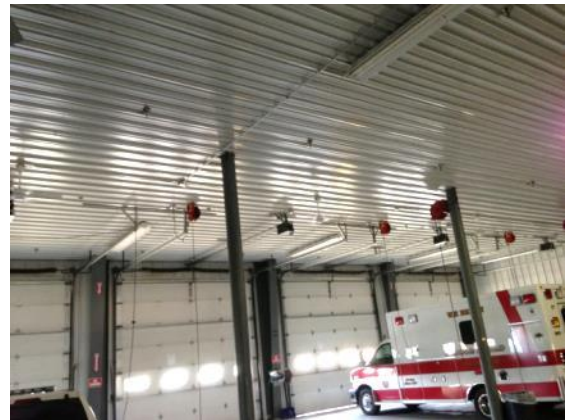
Opportunity Like many Public Safety and Service facilities Bruen Rescue had a combination of inefficient 95 watt 8' T12 fluorescent tubes and troffers with two and four 32 Watt T8 tubes. With a 24/7 run time of 8,760h/year, each 8' tube used 832 kWh per year. At a \$.16/kWh electricity rate, the T12 tubes cost \$113.15 per year to operate.



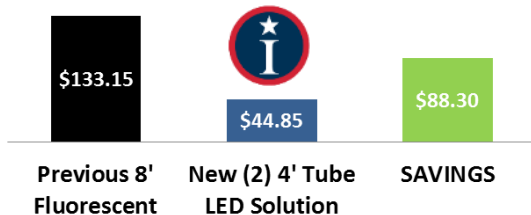
Solution Independence LED's Authorized Reseller, ERSI, based in Albany, NY, provided the LED solution with a pair of 4' 16 watt LED tubes to create an average energy savings of 66% over the existing fluorescent tubes.

Retrofit Highlights:

- Bay Areas: (15) 8' fixtures
- Rec Room: (26) 4' fixt.
- Six Offices: (12) 4' fixt.
- Two Bathrooms: (2) 4' fixt.
- Utility & Storage: (5) 4' fixt.
- Bunk Rooms: (10) 4' fixt.
- Plus, Elevator and Hallways



Annual Electricity Cost Sample Fixture



Results By reducing the critical 24/7 bay area 8' tube wattage by an average of 66%, the annual savings is 552 kWh and \$88.30 per 8' length every year. Over the approximate 7 year life of the LED's at 24h/day, the lifetime energy savings is over \$600. The environmental impact of the retrofit is significant. At the U.S. average of 1.34 lbs of CO2 emission reduction for every kWh saved, each 8' tube retrofit saves 5,065 lbs of CO2 over the long life of the energy saving LED technology.