



Service/Product Provider

Aelux

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Glenside, PA 19038

Business: Turn-Key Lighting Retrofit

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Industrial Partner

Dresser Inc.

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Business: Oil and Energy

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Aelux retrofits over 600 lighting fixtures at Dresser site, saving over \$300,000 a year in energy costs.

Project Scope

Aelux worked with Dresser, Inc. to perform a lighting retrofit at their Pineville, LA site. Aelux audited Dresser's 300,000+ square foot location to determine lighting upgrade options that would yield the best cost savings in energy and maintenance.

Project Summary

By replacing or removing over 3,500 light fixtures, Dresser's Pineville, LA site was able to save 72% of their original lighting costs and 3,334,739 kWh in energy consumption. The site originally had older, inefficient lighting including 400W metal halides which were replaced with newer 28W T8 lamps. The new T8 lamps provided better lighting levels while using less energy due to advancements in lighting technology.

- **Year Project Completed**
The project was completed in March of 2013.
- **Energy Savings**
This project saves Dresser over \$300,793 a year in energy costs, and will save 344 kW (from 529 kW to 185 kW) of electricity demand for lighting.
- **Investment**
The total investment of \$407,641 included product costs, installation, equipment, labor and other costs.
- **Financial Return**
The effective payback for this project is 16.3 months with a 10-year cumulative savings of over \$3,007,935.
- **Other Benefits**
This lighting project provided Dresser with a more comfortable and safe working environment. The T8 lamps offer a longer lifespan which will require less maintenance and reduce lamp replacement costs.

Monitoring & Verifying Energy Savings

The expected energy savings was determined by comparing the kWh use of the original lighting configuration versus the kWh use of the new lighting system. Additionally, Aelux was provided access to Dresser's electric bills which allowed Aelux to determine monetary savings when multiplying the kWh of the new system by their energy rate.

Distinguishing Value

This project went extremely well during the installation and the shop and office personnel are very happy with the results. The lighting specifications and recommendations were customized for the needs of the facility, resulting in sufficient and acceptable lighting levels. The correct material was ordered and shipped in a timely manner, with any deficiencies quickly addressed. The selection of crew personnel, prompt communications, and overall project management and control made this project a success. The lighting crew not only worked efficiently and quickly, but was also extremely knowledgeable, ethical, and had a very professional attitude.