



Manufacturing Facility Independence, MO.

About the Client:

Since 1955, GOAD Company has built a quality reputation by providing custom designed fabrications and systems to the surface finishing and chemical process industries.

GOAD offers the most comprehensive corrosion resistant fabricating service in the Midwest. The facility utilizes state of the art thermoplastic welding and bending equipment and now has state of the art T5 and LED lighting.

The Project...

Previous lighting for this 18,000 sq ft. facility consisted of T12 high-output and metal halide technology.

WEI created a custom lighting layout that reduced the fixture quantity while improving light levels where needed.



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Project Savings...

Annual kWh Savings: 58,050,650

Annual kW Demand Savings: 16

Annual Utility Savings: \$8,708

Projected R.O.I.: 30 months

Greenhouse Reduction

82,679 pounds (37.5 metric tons) of carbon dioxide.

Equivalent to annual greenhouse emissions from 8 passenger vehicles and CO₂ emission from 4,204 gallons of gasoline consumed.

About Worldwide Energy..

As commercial energy efficiency experts, we help our clients minimize utility expenses with energy efficiency lighting, efficient heating & cooling, and building envelope solutions.

Our efforts focus primarily on the areas that provide the greatest utility cost savings and where financial incentives create a rapid return on investment.

Worldwide Energy offers a total turnkey solution: utility rebate procurement, complete design & installation services, recycling and project financing.

We design projects to ensure a rapid rate of return. Most lighting upgrades have a thirty-six months or less return on investment.

Client Goals

The client had several objectives including:

- Reduce maintenance time and expense.
- Reduce energy consumption and utility expense.
- Improved light levels and uniformity of distribution.
- Professional installation.

During the audit we found the facility to have seriously deficient light levels. In addition, the task lighting was metal halide floods that had been added around the perimeter of the facility in an attempt to boost visibility.

The new lighting layout eliminated 28 T12 fixtures and all HID task lighting.

The project designed by Worldwide Energy meets all identified goals of the client. Our professional installation ensured NO disruption of the normal business operations.

The lighting upgrade resulted in: Uniform lighting with high color rendition and light quality, increasing safety, efficiency and employee morale.

Elimination of on-going maintenance cost. The installed LED products have a predicted life of more than 100,000 hours maintaining 90% of the initial light output for the seven year warranty period.

