

Lighting Studies & Retrofit Solutions

Why perform a Lighting Study?

In many situations where REG has performed a Lighting Study older technologies (such as HID, metal halide, mercury vapor, high pressure sodium, T12 fluorescents, incandescents) still existed in a variety of configurations and in various states of fixture and lumen depreciation.

There have been great advances in lighting efficiency over the past 20 years, yet many facilities still utilize lighting technology that was developed 100 years ago! This is where a REG Turnkey Retrofit solution might be the right fit for your business.



What Will REG Analyze?

- Energy Cost
- Hours of Operation
- Existing System (Type & Cost to Operate/Upgrade)
- Savings from Upgrading
- Project Payback
- Environmental Impact

Why a Turnkey Retrofit Solution?

- Analysis & measurement of energy usage provided before & after implementation
- Installed during off shift hours to minimize impact on your business
- Little impact on existing maintenance projects
- Per fixture based pricing

Executive Overview of Lighting Study			
Lighting Study			
Lancaster, Pa			
<small>Replace Older T12 and Metal Halide Lighting to Energy Efficient LED Lighting systems for improved color rendering, reduced lumen depreciation, and increased energy dollar savings.</small>			
Existing Annual Operating Costs	Annual Reduction in kWh	Proposed Annual Operating Costs	Annual Savings
\$41,127.15	714,268	\$71,313.00	\$21,814.14
Initial Job Cost			Payback
Labor and Materials	\$401,980.00		2.47 Years
PA Sales Tax	\$3,047.91		
Total	\$405,027.91		



Success Stories

G/S/M INDUSTRIAL, INC. METAL FABRICATION & INSTALLATION CONTRACTOR

The project was accomplished through a turnkey Contract with Richards Energy Group, Inc. (REG). REG purchased fixtures directly from a manufacturer in Wisconsin, with shipping directly to the plant.

Installation was accomplished by working round-the-Clock over one weekend, using a very motivated and Experienced crew from REG's installation partner armed with 6 high-bay lift trucks and a cherry picker. This allowed the work to be accomplished without disruption to GSM projects.

- Based on expected hours of operation, the old lighting would have consumed 647,000 kwh per year.
- The new lighting will now only use 243,000 kwh per year.
- That 404,000 kwh savings means the facility will cost about \$37,000 less to operate every year at current electric rates than it would have without this project.
- Overall payback for this project was 1.5 years.



Want to know more? Email: info@richardsenergy.com