



**RAY**  
**ELECTRIC**

[www.rayelectricsupply.com](http://www.rayelectricsupply.com)

**ENERGY SOLUTIONS**

STERLING HEIGHTS

TROY

ROSEVILLE

NOVI



## ENERGY SOLUTIONS

*Good For Your Company...Good For The Environment*

## Turning Green into Gr\$\$\$n

Our goal is to help you turn Green into Gr\$\$\$n by delivering energy savings and better light quality. This improves profitability and productivity while at the same time enhancing the environment!

### Why act now?

- **Improved Profitability....by reducing kilowatt hours and maintenance costs!**

Lighting is characterized as the easiest upgrade to an electrical system and among the fastest to payback with **typical energy savings of up to 50-70%** in most HID to fluorescent relighting projects, and even more when occupancy sensors are utilized...see the next page for some actual completed project returns!

Lighting accounts for over 50% of all commercial building energy costs, and 67% in the retail sector.\*

- **Improved Productivity.... by improving light level and color throughout lamp life!**

According to the Center for Building Performance at Carnegie Melon, research shows that good lighting design leads to **higher productivity (a median increase of 3.2%)**. Even a 1% improvement could be enough to pay all energy bills.\*

- **Don't Get Left Behind...as rates continue to rise, the cost of waiting is considerable!**

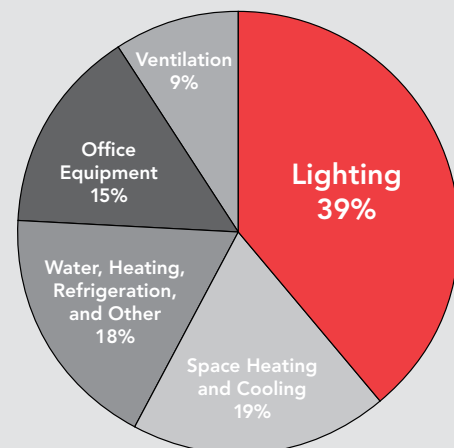
Cumulative benefits of the Dept. of Energy/EPA sponsored Energy Star programs resulted in energy savings of more than 200 billion kilowatt hours in 2009 alone.\* Lighting is the single largest opportunity for energy savings in a building (see chart below).

See the "cost of waiting" to your bottom line on our actual projects on the next page!

Federal EAct deductions\*\* and utility rebates are substantial now but subject to change in future years

**Lighting uses 39% of the electricity in office buildings.**

Source: *Department of Energy  
CBECS 2003 data, released in 2008*



\* NAED 2008 White Paper/Green Goes Mainstream, NAED 2008 Benefit From Green Electrical Costs Savings.

\*\* EAct-Energy Policy Act of 2005 provides tax incentives for lighting system improvements. The deduction for warehousing, manufacturing or other highbay applications is \$0.60 per square foot when exceeding the ASHRAE/IESNA Standard 90.1-2001 and meeting lighting requirements.

**Contact us at [www.rayelectricsupply.com](http://www.rayelectricsupply.com) OR 1-586-739-9700 TO START SAVING TODAY!**

# What are the services Ray Electric Energy Solutions offers you?

- Review of existing lighting system and recommendation by our experienced staff of the best energy lighting solution that maximizes energy savings while improving light quality
- Provide a complete energy lighting audit and relighting recommendation with payback analysis including any EPAct savings or local utility rebates\*\*\*
- Provide complete lighting design\*
- Provide the best selection and latest technology of U.L. approved fluorescent and L.E.D. lamp and fixture technology, lighting controls, sensors and daylight harvesting
- Provide project coordination assistance with:
  - Installation with licensed electrical contractors
  - Identifying potential local utility rebates and EPAct deductions
  - Financing\*
  - Recycling\*
- Provide industry leadership and expertise...
  - We are committed to energy savings in all of our own facilities
  - We are a leader in lighting in Southeast Michigan since 1939...just ask our thousands of satisfied customers!

**“The proposal reduced the amount of fixtures by more than 50%. The results were incredible! The lighting is much brighter and the installation was done very professionally with minimal disruptions to our business.”**

***CEO, Power Equipment Distributors***

**“I was very skeptical about how it would turn out. But after only one month, I am amazed at the difference in the amount of light we have in the shop and we can already see the energy savings. That really shocked me! I regret not doing this sooner!”**

***President, Industrial Metal Coating***

# Actual Project Results

## Actual Project #1: Industrial High Bay Relighting

**Scope of Work:** Relight 400w Metal Halide Lighting with Energy Efficient Fluorescent T5 Hi-Bay Lighting

<b>Operational Dollar Savings/Year:</b>	<b>\$29,418</b>
<b>Return On Investment:</b>	<b>1.75 years</b>
Kilowatt Hour Reduction:	412,302
Color Rendition Improvement:	42%
Light Level Increase:	88%
Cost of Waiting:	\$2,451/month



**Before:** HID Metal Halide Hi-bay Lighting

**After:** Energy Efficient Fluorescent Hi-bay Lighting

## Actual Project #2: Warehouse Low Bay Retrofit

**Scope of Work:** Relight 8' 2 Lamp Standard Fluorescent Strips with 4' 4 Lamp T8 Energy Efficient Linear Fluorescents Retrofit Lighting w/Occupancy Sensors

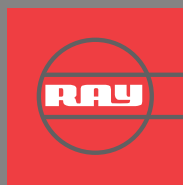
<b>Operational Dollar Savings/Year:</b>	<b>\$11,739</b>
<b>Return On Investment:</b>	<b>1.5 years</b>
Kilowatt Hour Reduction:	164,531
Color Rendition Improvement:	12%
Light Level Increase:	15%
Cost of Waiting:	\$978/month



**Before:** Standard Fluorescent Strip Lighting

**After:** Energy Efficient Linear Fluorescent Retrofit Lighting

\*Upon Request    \*\*\*If applicable



**RAY**  
**ELECTRIC**

**ENERGY SOLUTIONS**

[www.rayelectricsupply.com](http://www.rayelectricsupply.com)

***STERLING HEIGHTS***

12500 Hall Road  
Telephone: 586-739-9700 • Fax: 586-739-1130

***TROY***

1241 E. 14 Mile  
Telephone: 248-585-1400 • Fax: 248-585-0467

***NOVI***

25673 Meadowbrook  
Telephone: 248-449-4500 • Fax: 248-449-4505

***ROSEVILLE***

27311 Gratiot Avenue  
Telephone: 586-771-2211 • Fax: 586-771-3034

