

CASE STUDY: LIGHTING PROJECT

SYSTEM TYPE: LED

PROJECT FINANCIALS

- Total Turnkey Installed Cost: \$ 312,000
- Annual Energy Cost Savings: \$ 78,800
- Annual Total Cost Savings: \$ 98,800
- Simple Energy Funded Capital Payback: 2.5 years
- Average Project IRR: 66%
- CO2 Equivalent Reduction : 1,041 tCO₂e (Natl. Avg. Emission Rate)

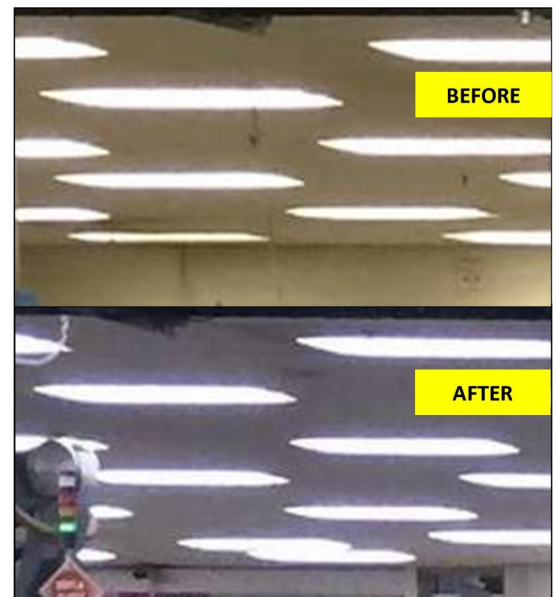
MANUFACTURING Facility Installs New LED Tubes and Decreases Operational & Maintenance Requirements—Saves \$98,800 Annually

System Description

- Plant, warehouse, and office lighting
- Total of 323 kW installed lighting load
- Primarily T-8 and T-5 systems

System Opportunities

- The lighting systems had been upgraded previously with changes to T-8 and T-5 systems, as well as de-lamping various areas
- The analysis looked at various LED upgrades to the system fixtures



Project Description

- Removed and disposed of approximately 12,000 fluorescent T-8 and T-5 tubes
- Installed approximately 12,000 LED tubes
- Replaced 4 each 400 Watt metal halide fixtures with LED flood lights
- Processed and obtained \$65,000 utility rebate

Project Benefits

- Reduced lighting load by 135 kW
- Saved 1.16 million kWh annually
- Provided 5-year warranty on all LED tubes
- Provided 5-year warranty **on existing ballasts**
- Decreased the related HVAC load
- Reduction in energy usage and operating cost

Plant Profile

- Manufacturing facility, personal care products
- Production areas
- Office areas
- Assembly areas
- Warehouse areas

Key Benefits

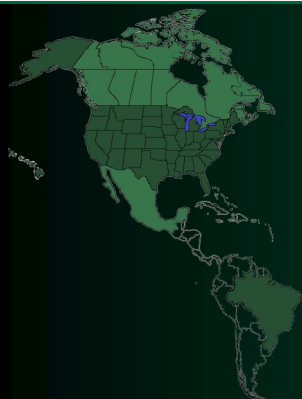
Annual Energy Cost Savings	\$ 78,800
Annual Total Cost Savings	\$ 98,800
Carbon Reductions	1,041 tCO2e (Natl Avg. Emission Rate)
Project IRR	66%

Financial Data

Investment	\$312,000
System	Lighting
Life Expectancy	N/A
Incentives/Rebates	\$ 65,000
Payback Period	2.5 Years



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