

Energy Efficiency Case Study

Why Upgrade your Facility's Lighting?

With recent advancements in technology, LED lighting often offers quick simple paybacks and can reduce lighting energy costs by 60%-70%. Maintenance costs can also be eliminated as most LED technology is rated for 100,000 hrs. which is more than 11 years in a 24/7 application. This will virtually eliminate all of your lighting maintenance costs for years to come.

About SEMCO

If your business is interested in cutting energy costs or financing an energy efficiency project to create immediate positive cash flow, SEMCO can help you. We help businesses save energy by providing turnkey energy saving solutions like LED lighting, heating and cooling controls and more. Just reach out below for additional information.

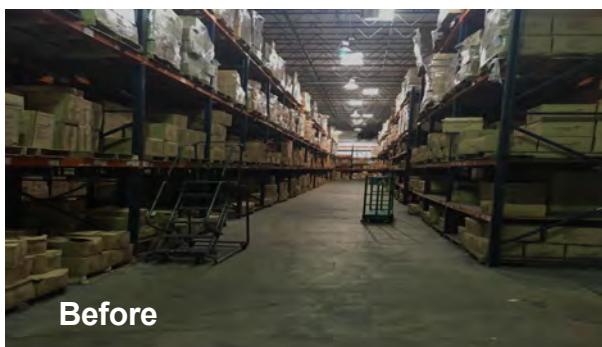


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Crown Products, Mobile AL

This project involved upgrading the interior lighting in the entire warehouse from metal halide high bay fixtures to energy efficient LED lighting. The LED upgrade will cut the lighting energy usage by **68%** and will eliminate lighting maintenance costs for more than **15 years** since the LED fixtures installed are rated to last over **100,000 hours**. While energy and maintenance savings are clear benefits of the upgrade, an increase in foot-candles throughout the plant will also help create a safer working environment for employees. On average, light levels were increased by **10%-15%** depending on the area. In total the project will provide **\$26,632** in energy and maintenance savings, resulting in a payback period of only **1.87 years** for the new LED lighting fixtures.



Before



After

Annual Savings

(calculations provided courtesy of SEMCO)

- Energy/Maint.Savings \$26,632
- Displaced Energy 263,160 kWh
- Displaced Demand 41 KW

Impact of Upgrade

- Simple Payback 1.87 years
- Expected Life of Lighting 125,000 hrs

What Crown Products Is Saying

"We were impressed with how quick and easy SEMCO made the lighting installation process. Everyone in the plant loves the new lighting and we look forward to many years of energy and maintenance savings."

- Douglas Dove, Maint. Supervisor

Environmental Equivalents

- 407,728 lbs. of carbon dioxide saved
- 4,793 tree seedlings grown
- 20,810 gallons of gas consumed
- 175 Acres of Forest (1 yr)
- 39.1 cars removed from road (1 yr)