

Energy Efficient Lighting Case Study

Why Upgrade your Facilities Lighting?

For years LED lighting has been called “the lighting of the future”, but it is now the lighting of today. Lower fixture prices and reduced energy usage result in a quick payback and an excellent ROI. The 5-10 yr. material warranty with a 100,000 hr. life expectancy (equivalent to 11 years in a 24/7 application) minimizes maintenance costs.

About Semco

Our goal is to help manufacturers identify opportunities to reduce energy costs and make them affordable through rebates, grants and creative financing. Common projects include LED lighting, compressed air modifications, HVAC controls and more. Please reach out below for additional information and a free on site inspection.



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Coastal Forest Resource's

lighting retrofit strategy was to replace existing fixtures as they failed with LEDs.

They already knew the benefits of LED, but with their existing strategy it was going to take years to convert the entire plant.

So when SEMCO conducted a free lighting survey and offered a better fixture with a 10-year warranty, it sounded like a good opportunity, especially if they could get a 25% USDA Grant to pay for the turn key contract (which they did).

Installation was completed in three weeks, and since the project was installed at night there was no interruption to production.

As you can see below, the plant is brighter, safer, and has a much better working environment.



Annual Savings

(calculations provided courtesy of SEMCO)

- Energy Savings \$42,072
- Displaced Energy 503,315 kwh
- Displaced Demand 57.5 kw

Impact of Upgrade

- Simple Payback 2.37 yrs.
- 52% Reduction in lighting energy usage

From the Plant Manager

“Updating our lighting to LED has greatly improved visibility in our facility and has created a safer, more comfortable working environment for our employees. The switch has also reduced our cost of operation, which is always a plus. The project will pay for itself in just a couple years, so I’m very happy with the results.”

- Trey Pierce

Environmental Impacts

- 98.5 Cars Taken off the Road (1 yr)
- 1,075 Barrels of oil saved
- 55.6 Homes powered one year
- 52,228 Gal. of gasoline not burned
- 507,423 Pounds of coal not burned

