

Energy Efficiency Case Study

Why Upgrade your Facilities 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 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 through 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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JW Jones Lumber Co. & Mackey's Ferry Sawmill

This project involved upgrading the interior and exterior lighting in both plants from inefficient T12/ T8 fluorescent and HID fixtures to energy efficient LED lighting. The LED upgrade will cut the lighting energy usage by 60% and is expected to eliminate lighting maintenance costs for more than 11 years since most of the LED fixtures installed are rated to last 100,000 hours. While energy and maintenance savings are clear benefits of the upgrade, an increase in foot-candles throughout the entire plant will also help create a safer working environment for employees. On average, light levels were increased by 10%-20% depending on the area.



BEFORE



AFTER

Annual Savings

(calculations provided courtesy of SEMCO)

- Energy Savings \$52,820
- Displaced Energy 723,660 kWh
- Displaced Demand 183 kW

Impact of Upgrade

- Simple Payback 3.52 yrs
- Rebate Incentives \$214,000

From the President

"The LED lighting upgrade was installed on time, without hindrance to our day to day production. We're expected to cut our lighting energy costs by approximately 60%. These savings combined with the maintenance savings and utility rebate, made the project too good to pass up. We are very pleased with the results."

- Stephen Jones

Environmental Equivalentents

- 12,795 tree seedlings grown 10 yrs.
- 535,983 lbs. of coal not burned
- 56,149 Gallons of gas not burned
- 68.6 Homes powered (1 yr.)
- 105 Cars taken off the road (1 yr.)