

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.

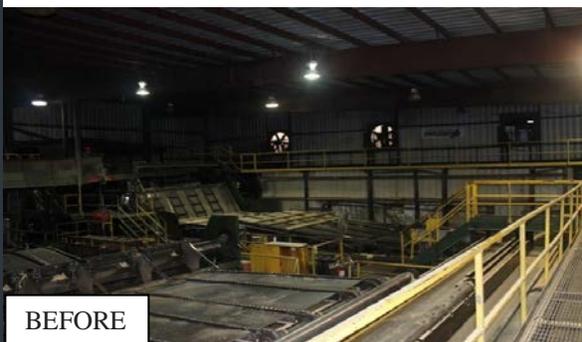


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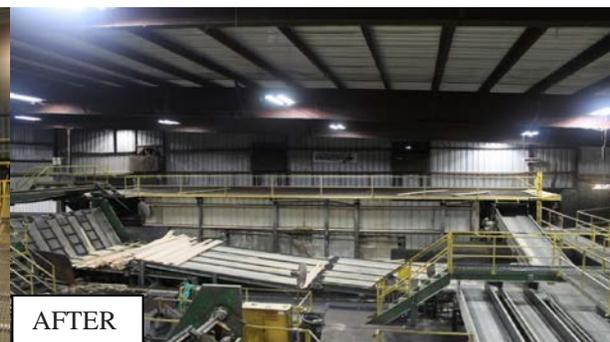


Shuqualak Lumber

This project involved upgrading the interior and exterior lighting in production areas from inefficient fluorescent and metal halide fixtures to energy efficient LED lighting. The LED upgrade will cut the lighting energy usage by **73%** and will 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 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 addition, the project received over **\$121,000** in incentives; these incentives coupled with the substantial energy savings, shortened the payback period to only **1.83 years**.



BEFORE



AFTER

Annual Savings

(calculations provided courtesy of SEMCO)

- Energy/Maint. Savings \$82,607
- Displaced Energy 894,010 kWh
- Displaced Demand 93 kW

Impact of Upgrade

- Simple Payback 1.83 years
- Rebate Incentives \$121,993

What Shuqualak Is Saying

"We've been impressed with the way SEMCO broke down the benefits, savings, and costs of our LED upgrade. Their analysis, reporting, and installation have been nothing but professional and we're very pleased with the energy savings we will be experiencing."

- Charlie Thomas, III
VP, Shuqualak Lumber

Environmental Equivalents

- 1.4 million lbs. of carbon dioxide
- 221 tons of waste sent to landfill
- 60,228 gallons of gas not burned
- 84.8 homes powered (1 year)
- 130 cars taken off the road (1 year)

Shuqualak Lumber Mill Project



BEFORE



AFTER

