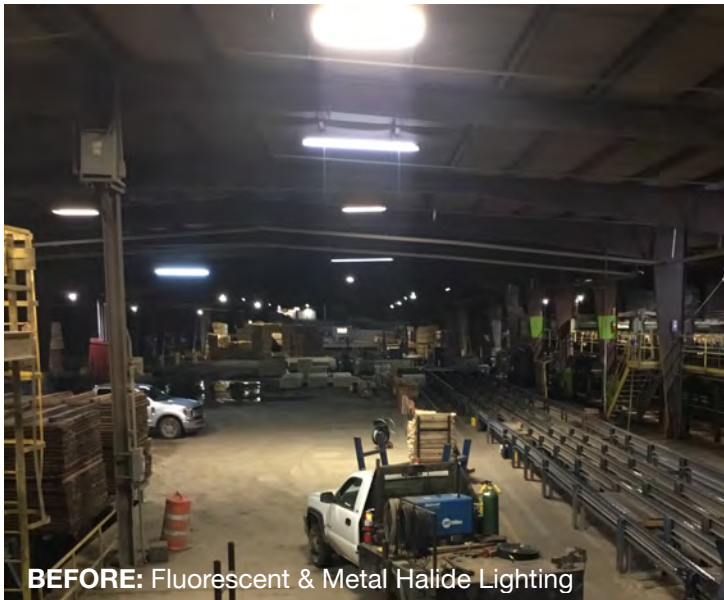




WEST FRASER

Mansfield, AR

An LED Lighting project to reduce energy and maintenance costs and improve safety.



BEFORE: Fluorescent & Metal Halide Lighting

AFTER: LED Lighting Upgrade

676,000 kWh Reduction
Generating **\$50,000** in
Annual Savings

65% Reduction in
Lighting Energy Costs

2.8 Year Simple
Payback

Opportunity

Similar to the more than 40+ lumber mills SEMCO has worked with throughout the southeast, the West Fraser Mansfield plant was in dire need of a lighting upgrade. As the plant has grown over the years, many different types of legacy lighting were utilized throughout the plant, leaving ample opportunity to both improve the quality of light throughout the facility, as well as reduce energy and maintenance costs. With the task at hand, SEMCO's energy audit team set out to develop a project that would bring the plants light levels up to an acceptable standard, reduce energy costs and take advantage of unique tax and utility incentives to help pay for the upgrade.

Solution

The goal of this project was to first and foremost increase the amount of light in key areas of the plant, such as the saw mill and planer mill. SEMCO conducted a complete redesign of the lighting system in these areas to not only reduce energy costs, but also provide more than 3X as much light in these critical areas. To help reduce energy costs, SEMCO utilized high quality LED fixtures manufactured by industry leading companies utilizing best in class LED's. Smart motion sensor controls were also integrated into many areas of the plant so that the fixtures automatically dim and ultimately shut off when no motion is detected.

These controls will help increase energy savings per fixture by an additional 30%. Lastly, to help pay for the project, SEMCO worked with West Fraser's local utility to help secure incentives to pay for the upgrade. Additional, little known tax incentives were also secured to help offset the initial cost of the project. The net effect of the project was increased light levels, reduced energy and maintenance costs and a project that will pay for itself many times over the next several years.

“SEMCO's install team did an excellent job of working around our production schedule and completing the project in a timely manner. Our plant is much brighter and this project confirms our commitment to creating a safer, environmentally sustainable working environment for our employees. We're also looking forward to experiencing the energy savings for years to come.”

James Travis | Plant Manager

BEFORE: Saw Mill Metal Halide Lighting



AFTER: Saw Mill LED Lighting



About SEMCO

SEMCO is an energy management company. We help businesses save energy and reduce electricity costs by providing turnkey energy efficiency solutions, renewable energy systems and utility bill consultations.

Whether it's one facility, a region or the entire country, we help customers roll out systemized upgrades that enable them to take advantage of best practices and the latest technologies. We design and develop custom solutions that minimize risk and maximize value, and are optimized for each facility, its uses and users.

In addition, we make energy solutions feasible by helping customers take advantage of all potential financial incentives. On average, the incentives obtained cover 30% - 40% of our solutions costs.

Additional Services

Supply Side

- Energy Procurement
- Billing Audits
- Demand Management

Demand Side

- LED Lighting
- Compressed Air
- Conversion of HPU to Electric
- VFD's & Controls
- Capacitors

Connect Your Systems (IOT)

- Sub-Meter Buildings
- Monitor Specific Motors and Processes in Real Time
- Measure and Verify Savings (M&V)