J+J Flooring Group
Case Study

EMC

LEADING THE FUTURE OF
LIGHTING + TECHNOLOGY

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The Challenge

J+J Flooring Group, a leading manufacturer of commercial specified flooring implemented a lighting retrofit of its 900,000 square foot manufacturing Dalton, GA campus as part of its comprehensive sustainability plan. Implementing a successful, single phase lighting redesign and retrofit project for the facilities, which operate 24/7, required an aggressive yet flexible plan that emphasized safety for both installers and J+J Flooring Group employees.

The Solution

EMC's project management team ensured that fixtures and materials from distribution partners and EMC certified labor teams arrived on time to meet the aggressive two-month installation schedule. A total of 1,252 fixtures were upgraded for better performance and energy efficiency.

The new solution includes LED exit signs, overhead lighting with emergency battery backup and LED parking lot lighting that enhances safety by effectively illuminating the desired areas without wasting energy. A total of 88 fixtures that were not providing useful lighting were eliminated. EMC's EnergyMAXX project management approach ensured that project changes J+J Flooring Group wanted to make along the way were thoroughly reviewed and successfully incorporated into the installation schedule.

The Results

The completed lighting retrofit not only reduced energy output and cost, it affected the morale of J+J Flooring Group employees. No matter what time they arrive at work, employees begin their day in well-lit parking lots. The new lighting design enhances their ability to quickly, accurately and safely perform their jobs, whether it's dying carpet fibers or moving product in a warehouse environment.

Total Facility Savings

Annual kWh = 2,253,800

Annual Energy Savings = $146,500

FACILITY EXTERIOR

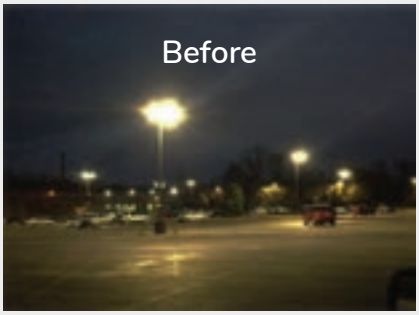
139,206 kWh annual savings

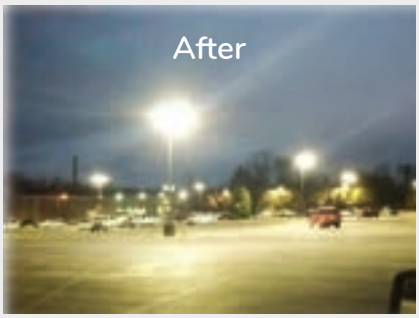
$9,048.42 annual savings

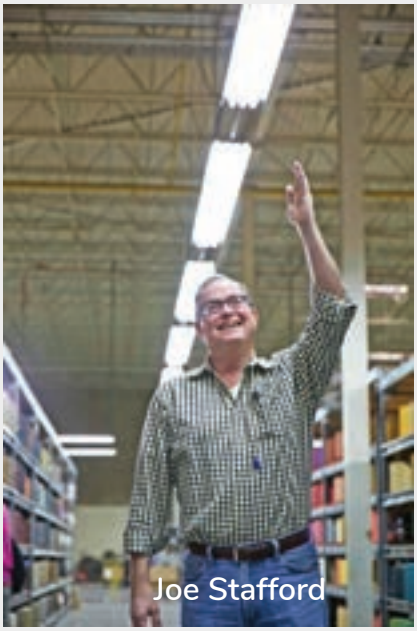
168 light fixtures on exterior building and for sidewalks

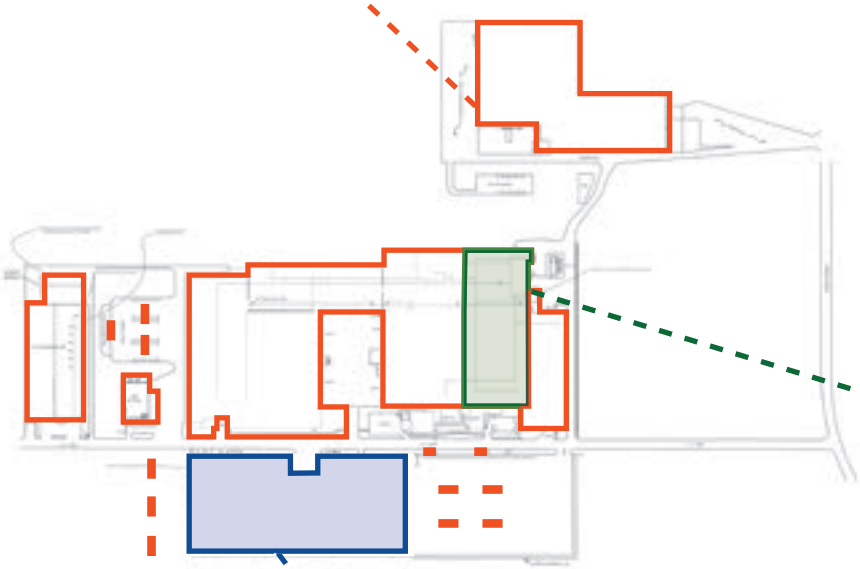
"When these facilities were built, the lighting technology commonly used today didn't exist," said Joe Stafford, Plant Engineer for J+J Flooring Group.

"Our goal was to improve lighting performance within our facilities using the best available technology for energy efficiency as well as for the productivity and safety of those working in the facilities."









YARN PLANT& WAREHOUSE

555,638 kWh annual savings

$36,116.47 in annual savings

588 light fixtures

Lighting upgrades included yarn plant, yarn lines, storage, warehouse dock, boiler and compressor rooms.

FACILITY INTERIOR

575,926 kWh annual savings

$37,435.20 in annual savings

324 light fixtures

Stafford projects that energy usage from lighting will be reduced by approximately 2,000,000 kWh per year. "That is equal to the amount of energy, on average, that it would take to run 200 homes for one year. In addition, this impact is equal to taking 271 cars off the road or the equivalent of planting 136,378 trees," he said.

Cost savings are estimated at $140,000 annually and utility measurements during and subsequent to the installation are verifying the energy reductions that have been achieved.

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