

LED Lighting upgrade cuts power costs in half for 500,000 SF manufacturing facility.



Client

Graphic Packaging is a Fortune 1000 corporation that designs and manufactures packaging for commercial products. Their 500,00 SF facility in Stone Mountain, Georgia was tired of their old fluorescent lighting and wanted to upgrade to LED lighting. They selected ASD® to help them with the massive undertaking.

Challenge

The large warehouse had over 1,000 fluorescent bulbs and fixtures that needed to be removed and disposed of. However, the large factory runs 24/7/365 and in order to demo and install the new LED lighting they would need to temporarily shut down the machines. ASD® project managers would need to do a lot of planning and prep for this project to run smoothly.

IMPORTANT CONSIDERATIONS

- What's an environmentally friendly way to dispose of the old bulbs?
- How can they install the lights with the least amount of downtime possible?
- What extra precautions will technicians need to take to adhere to the facilities strict PPE (Personal Protective Equipment) policies?



Solution

ASD® project managers began by doing a heat map and creating a layout of the entire facility. They decided to break the project up into 7 phases so that the LED installation could coincide with regular plant maintenance and updates. When they took out the old fluorescent bulbs and fixtures they were sent to a recycling plant that provided a death certificate.



Result

The new 300w LED bulbs were so much brighter than the old fluorescent bulbs that they only needed half the amount. This means there are now half as many bulbs to maintain, and they will last up to 10x longer than their fluorescent predecessors. The old lights used 1,401,600 kWh of power compared to the new ones which use 763,959 kWh. The energy cost savings give them a projected ROI of 1 year, before factoring in rebate savings and reduced maintenance expenses. Graphic Packaging now has a warehouse that is more environmentally friendly and safer to be in.

Project Summary

INDUSTRY

Industrial & Manufacturing

SERVICES

Build

TECHNOLOGIES

LED Lighting

HIGHLIGHTS

- 637,641 kWh of Power Saved Annually
- 314- 300W LED Bulbs and 114- 170W LED Bulbs
- ROI: 1 Year
- Death Certificate for Fluorescent Bulbs
- Lighter and Brighter Manufacturing Facility that is Safer to Work In