



L'OREAL



Case Study: L'Oreal Manufacturing Franklin, NJ

L'Oreal Manufacturing's Franklin, NJ facility is a 200,000 square foot production building built in the 1980's. Since the plant operates 2-3 shifts per day and a kW rate exceeding .11/kWh, the need to control energy costs became a priority. Our project management team worked closely with L'Oreal maintenance and facility personnel to design a lighting solution that, once completed, delivered almost 153 kW in load reduction. The project included the replacement of over 1200 T12 fluorescent lighting fixtures and almost 300 HPS high bay lighting fixtures located in warehouse, production and administrative areas.

Project goals included light levels that met or exceeded existing levels after installation, the use of high efficient fluorescent fixtures in the warehouse and administrative areas to increase visual comfort and most importantly, construction that never interfered with production.

Our long-term commitment to L'Oreal has resulted in numerous energy saving projects including a dimming control system that can control lighting throughout the building. This system integrates six lighting management strategies that deliver greater capabilities to lighting control than conventional systems. The result has been a modular lighting control system that has delivered far greater energy savings and performance capabilities.



PATHMARK STORES



Pathmark Stores, Inc.

New York

Background

Pathmark Stores, Inc. was founded in 1968 and operates 141 supermarkets in New York, New Jersey, Pennsylvania, and Delaware. As a pioneer in the supermarket industry, Pathmark operates 24-hour stores and “Super Centers” and was one of the first supermarket chains to install scanning checkout registers.

The average Pathmark store is more than 52,000 square feet, and like most 24/7 stores, these facilities consume a large amount of electric power. It is estimated that the supermarket industry consumes nearly 3% of our nation’s power, and a typical supermarket could use about 3,000,000 kWh annually and have a demand of approximately 450 kW. Most of this energy is used by refrigeration, lighting, and HVAC systems.

Realizing the need to reduce its energy use, Pathmark Stores Inc. worked with the New York State Energy Research and Development Authority (NYSERDA) to meet its goals of reducing energy consumption and protecting the environment. This was accomplished through participation in several programs including the Commercial/Industrial Performance Program.

Recommendations

Working with NYSERDA, its consultants, and other energy specialists several energy efficiency improvements were recommended. These improvements included lighting efficiency, high-efficiency refrigeration systems, VFDs, demand response, on-site photovoltaic and co-generation systems. Pathmark’s portfolio of energy initiatives for this year includes lighting upgrades at an additional seven locations in the Con Edison territory.

Incentives and Results

The implementation of lighting efficiency improvements is at the forefront of Pathmark’s energy savings strategy. These improvements include a lighting system comprised of induction, T8, T5, fiber-optics, and Light Emitting Diodes (LEDs). RLE Industries, a lighting company with more than 60 years of experience, designed a lighting system that includes custom split-circuit wiring and dimming controls which allow optimal control of energy demand and operate in conjunction with a Pathmark store’s energy management system.

Pathmark Stores received an incentive of more than **\$100,000** from NYSERDA to implement recommended energy efficiency improvements in several of its Metropolitan New York stores. The seven participating New York stores will see a combined annual savings of:

- 200 kW reduction
- 1,500,000 kWh/yr reduction
- Energy savings of \$200,000 annually
- The displacement of 820 tons of carbon dioxide
- The displacement of 2 tons of sulfur dioxide

“Rising energy prices and power reliability are growing concerns across our nation. Pathmark is committed to do its part by reducing energy consumption across all of its stores to help keep electricity flowing to our neighborhoods while protecting our environment.”

– Steve Castracane
Pathmark’s Energy
Manager



NYSERDA

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