

# Fortune 500 Department Store Chain

Case Study



**ENERGY**  
MANAGEMENT  
COLLABORATIVE

**ENERGY EFFICIENT**  
LIGHTING + CONTROLS + IoT  
SOLUTIONS

# Fortune 500 Department Store Chain Case Study

## Average Investment Summary

Project Cost

**\$193,892**

Rebate

**\$14,757**

Energy Savings

**\$32,800**

Payback

**4 years**

Seeking lowered energy consumption, improved store aesthetics and reduced maintenance costs, a Fortune 500 department store chain sought complete interior lighting upgrades for hundreds of stores as a multi-year project.

Tasked with retrofitting 100 stores, EMC worked closely with the retailer to audit and prioritize the stores and create the lighting design, as well as handling incentives, logistics and installation.

At each store EMC replaced more than 1,000 outdated, three-lamp 2 x 4 troffers fixtures with new, integrated LED kits. The new lighting operates at 27 watts, a 35 percent efficiency upgrade over the old installation. This efficiency, combined with more consistent light disbursement, means light levels were not sacrificed during the retrofit. In addition, the new LEDs mean the retailer avoids costly relamping efforts and maintenance calls for years to come.

The installation also features a new, integrated wireless control system that provides smart dimming in each store. This reduces energy consumption during stocking hours, which will generate an additional 10 percent in annual energy savings.



Before



After



Before



After

## Average Energy Savings



**374,160**  
pounds of CO<sub>2</sub>



**19,097**  
gallons of gasoline



**185,538**  
pounds of coal

# Realize the Full Value

---

## Retail Settings

Take a total approach to LED lighting + controls + IoT for all your store locations.

Energy Management Collaborative (EMC) has the project management expertise, quality and speed you need to maximize energy and bottom line savings for your retail business.

Since 2003 we've helped multinational businesses save billions of kilowatt-hours of energy and maximize their investment in LED lighting and controls to:

- Provide low cost of ownership and fast project paybacks
- Insure consistent implementations for hundreds of locations
- Reduce dependence on routine service calls
- Deliver superior utility savings and incentive values
- Enhance curb appeal and visual merchandising
- Maximize the full benefits of product warranties



**ENERGY**  
MANAGEMENT  
COLLABORATIVE