

# Macy's

## New York State

### Background

Macy's (formerly Federated Department Stores) began as a dry goods store more than 150 years ago. Macy's, Inc., operates about 850 stores in 45 states, the District of Columbia, Guam, and Puerto Rico under the Macy's and Bloomingdale's name. The stores sell men's, women's, and children's apparel and accessories, cosmetics, and home furnishings, among other things.

The store locations involved in this project vary in size from 88,000 to 340,000 square feet.

This project includes the replacement of halogen lightbulbs with LED technology.

### Recommendations

Accent lighting is typically used to highlight products and attract attention to back walls. These lamps are expensive to run, and when converting to lower wattage, stores also become cooler, which helps to lower air conditioning use. Through the replacement of halogen lightbulbs with ceramic metal halide bulbs, Macy's is saving money and making money at the same time through smart energy management.

***"Macy's dropped display lighting costs by nearly 73 percent per year in New York. Now we're taking the program nationwide."***

*—Bill Lyons, VP of Energy Management, Macy's*

The project entailed replacement of some, but not all, accent lighting, including track lighting and recessed lights. Specifically, existing 47 watt halogen lamps were replaced with 12 watt LED lighting.

### Results

The Macy's project resulted in:

- Annual energy savings of 3,865,869 kWh
- Peak demand savings of 780 kW in the summer
- Annual energy cost savings of \$674,399
- Simple payback of 1.6 years

NYSERDA is currently working with Macy's at their flagship location—Herald Square.

Visit [nyserdera.ny.gov](http://nyserdera.ny.gov) to find out how you can reduce your energy consumption and costs.

