

PRINTING FACILITY UPGRADES HID LIGHTING SYSTEM



TOPPAN PRINTING
1100 Randolph Avenue
Somerset, New Jersey
08873

Annual Energy Savings
\$56,000.00/year

Energy Reduction
56 KW

For more information on this and similar projects, please contact:

Energy Solutions

A division of O.K. Electric Supply Company
222 Washington Street
Perth Amboy, NJ 08862
Tel: (732) 826-6867
Fax: (732) 826-6540
www.okelectric.com



Toppan Printing America Inc. was established in 1970 as part of Toppan Printing Company Ltd, the #4 company in the publishing and printing industry. The Somerset New Jersey facility offers complete on site pre-press services, 4 color and above printing, binding, fulfillment, storage and distribution.

Toppan had retrofit fluorescent lighting in the press and binding areas in the 1990's. As an environmentally and cost conscious company, Toppan turned to O.K. Electric to look for ways to further improve efficiency at their facility.

MAIN WAREHOUSE

This warehouse which contained 250 watt Metal Halide fixtures was updated to new RETROFOUR™ fluorescent fixtures 1 for 1, maintaining existing light levels. The new fixtures cut energy consumption 65%, and provided instant on and instant restrike operation. Lamp life increased from 10,000 hours to over 30,000 hours. Since the Metal Halide lamps lose 40% of their lumens over their life, and the extended life T8 lamps lose only 5% light levels will remain consistent over time.

MATERIALS WAREHOUSE AND LOADING DOCK

400 watt Metal Halide fixtures were replaced with one for one with new RETROSIX™ fixtures. Providing the same benefits as above, energy consumption was reduced 50%.

FLUORESCENT FIXTURES

2x4 Recessed T8 fixtures were updated with white and specular reflectors, reducing the number of lamps from 3-4 lamps to 2 lamps. 2X2 T8 U lamp fixtures were converted to F17T8 lamps.

LIGHTING CONTROLS

Occupancy sensors were installed in warehouse aisles. Sensors turn off lights during periods of vacancy. Wall switch occupancy sensors were installed in perimeter offices.

THE ENVIROMENT

All lamps and ballasts on this project were recycled, preventing the release of mercury and PCB's. Additionally, The Kwh savings of this project annually eliminates the release of 896,000 pounds of CO2, the major cause of climate change, and saves 774 Barrels of oil per year, providing a benefit equivalent to removing 81 cars from the road.

