

ENERGY SAVINGS ARE HEADLINE NEWS AT THE STAR LEDGER

Relighting for energy conservation



**Piscataway & Pinebrook
New Jersey
Printing Facilities**

Energy Savings
\$224,000.00/year

Maintenance Savings
\$52,000.00/year

kW Reduction
338

Payback
Under 2-years

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



In the newspaper printing business, quality equipment, which insures the uninterrupted, timely printing of the newspaper, is mandatory. Not only must the equipment be reliable, but installation must not interrupt or disturb production. Lastly, the quality of the lighting is important to inspection and control. The Star Ledger turned to Energy Solutions looking for a lighting upgrade that met the above objectives while reducing energy costs.

Hidden Savings

While there were some standard F34T12 fixtures throughout the Star Ledger facilities, the main fixture types initially appeared to already be efficient or seem difficult to retrofit. However, Energy Solution's innovative designs allowed additional efficiencies. 1000-watt metal halide fixtures, which originally were perceived to be efficient, for example, were converted to new dual reflector HID fixtures, reducing energy consumption 59%, while increasing lamp life by 40%. 400-watt metal halide fixtures which were also originally thought to provide maximum efficiency were updated to new Retrosix™ fluorescent fixtures, reducing energy consumption by 67%, and increasing lamp life by 33%. These new fixtures are also instant on / instant re-strike improving safety during momentary power outages. Presses were originally lit with vapor-tite fixtures, utilizing (2) F48T12 high output lamps. A special retrofit kit was developed utilizing a custom reflector and one T5 high output lamp. Energy consumption was reduced 60%, while lamp life increased 10%. Over the paper storage areas, individual fixtures each received a sensor to shut off lights where paper rolls are stored underneath. In mechanical spaces, electronic time controls turn off lights when the area is vacant.

Other Savings

Exit signs were replaced with new LED signs that consume 90% less energy and eliminate future maintenance. Costly "U" lamp fixtures in office areas were replaced with new linear T8 lamps and custom reflectors, reducing future lamp costs 75%. Gold T8 lamps were utilized in darkroom areas.

The Bottom Line

Not only were energy costs slashed by 50% overall, but light levels doubled in most areas of the plants. New products offering extended warranties insure that the lighting system will be free of maintenance expenses for many years to come.