



CASE STUDY

Staples Warehouse Levittown, Pennsylvania

In 2007, Staples contracted with GreenTech Energy Services to design and implement an energy savings system in its Levittown, PA warehouse, a 60,000-square-foot facility that operates 24 hours a day, 5 days a week. The goals of the project were to increase the uniformity and quality of lighting throughout the warehouse, reduce energy usage, and maintain system reliability.

GreenTech replaced outdated 400-watt metal halide technologies with state-of-the-art T5 fluorescent lamps, which provide energy efficiency, long lamp life, easy switching, high lumen maintenance and even light distribution. GreenTech also installed sensors in half of the office fixtures to turn individual lights off when the rooms are unoccupied.

Results of the project include higher light levels, improved light quality, lower energy costs, and lower life-cycle costs. Employees report that spaces appear brighter and more evenly lit, with less glare and flickering. Restrike time in the aisles has been reduced, and the occupancy sensors have cut energy usage. The program is expected to pay for itself in well under two years.



"The new lighting has definitely improved the overall work environment. Previously there were dark areas throughout the facility that were not conducive to our operations; now the lighting is bright and uniform. From the day the installation was complete, our employees loved it."

**Charles D'Amore, Courier
Support Manager**

| THE SAVINGS | |
|----------------------|-----------|
| Total Program Costs | \$25,391 |
| Total Payback Period | 1.2 years |
| KW Saved | 16 |
| KWH Saved | 133,063 |
| Energy Savings | \$15,968 |
| Operational Savings | \$ 762 |
| Total Savings | \$16,730 |

| ENVIRONMENTAL IMPACT | |
|--------------------------------------|---------|
| Reduction in Carbon Dioxide (pounds) | 199,594 |
| Reduction in Sulfur Dioxide (grams) | 745,151 |
| Reduction in Nitrogen Oxide (grams) | 332,657 |

GreenTech Energy Services, 122
East Kings Hwy, Ste 503, Maple
Shade, NJ 08052
Phone: 800-690-0420
Fax: 856-778-1668
www.greentechenergy.com
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