



CASE STUDY

Staples Retail Store Newtown, Pennsylvania

In 2009, Staples contracted with GreenTech Energy Services to design and implement an energy savings system in its Newtown, PA store. Prior to the project, T8 fluorescent lights rimmed two sides of the store while metal halides hung above the computers and electronics displayed in the center of the store. Light levels were dim and uneven, ranging from 9 to 18 foot candles, and energy usage was high.

GreenTech relamped and rebalasted the T8 fixtures along the sides of the store and replaced the metal halides with T8s to match those along the perimeter. Energy usage dropped from 28 KW to 10 KW, a 73% savings, while foot candles, which had ranged from 9 along the sides to 20 in the center, almost doubled to 35 throughout the whole store. The project is expected to pay for itself in well under two years.



THE SAVINGS	
Total Program Costs	\$18,994
Total Payback Period	1.3
KW Saved	18
KWH Saved	85,766
Energy Savings	\$12,007
Operational Savings	\$570
Total Savings	\$12,577

ENVIRONMENTAL IMPACT	
Reduction in Carbon Dioxide (pounds)	128,650
Reduction in Sulfur Dioxide (grams)	480,292
Reduction in Nitrogen Oxide (grams)	214,416

"GreenTech's staff worked cleanly and professionally, and the lighting, which was a mixture of dome lights and fluorescents before the retrofit, has been evened out."

Jeff Ferrell, Store Manager

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