



CASE STUDY

Staples Retail Store Leesburg, Virginia

Staples contracted with GreenTech Energy Services to design and implement an energy savings system in its Leesburg, Virginia store. Prior to the project, there was a combination of metal halide fixtures over the copy center and T8 fluorescent lights throughout the rest of the store. Light levels were uneven and energy usage was high.

GreenTech relamped and rebalasted the T8 fixtures with more energy efficient components and replaced the metal halides with T8s to make lighting uniform throughout the building. Energy usage and costs were reduced while foot candles were raised throughout the whole store. Near the registers, for example, footcandles that formerly ranged from 17 to 18 are now between 40 and 50. The project is expected to pay for itself in well under two years.



BEFORE

THE SAVINGS	
Total Program Costs	\$24,896
Total Payback Period	1.7
Utility Rebate	\$5,000
EPACT Tax Savings	\$6,000
KW Saved	15
KWH Saved	67,834
Energy Cost Savings	\$7,462
Operational Cost Savings	\$747
Total Savings	\$8,209



AFTER

ENVIRONMENTAL IMPACT	
Reduction in Carbon Dioxide (pounds)	101,752
Reduction in Sulfur Dioxide (grams)	379,873
Reduction in Nitrogen Oxide (grams)	169,586

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