



## CASE STUDY

### Holy Cross High School Delran, New Jersey

Holy Cross High School in Delran, NJ contracted with GreenTech Energy Services to design and implement a lighting retrofit throughout the entire school. Outdated 400-watt metal halide fixtures in all gymnasiums and multi-purpose rooms were replaced with state-of-the-art T5 lighting. The new fixtures provide instant on and off, which eliminates warm-up time.

GreenTech also replaced all the 50-year-old fixtures in classrooms and hallways with new state-of-the-art energy efficient fixtures. Light levels were increased throughout the building, significantly improving the overall aesthetics. The enhancements were particularly dramatic in the classrooms, where better lighting has been shown to improve test scores. The projected energy savings are significant, enabling the school to achieve its goal of reducing its carbon footprint.

***“We originally launched the lighting retrofit to help shrink the school’s carbon footprint and reduce our energy costs, but we had not anticipated how dramatically it would change the appearance of the school itself. The whole place is brighter. Even the color of the walls seems to have changed. It was especially noticeable in the classrooms, which appear much more conducive to learning. Some of the teachers have been working here for many years, under lighting that hasn’t been upgraded since 1956, so they are very happy with it. This was definitely a worthwhile investment.***

**Dennis Guida, Principal, Holy Cross High School**

PROJECTED SAVINGS	
Total Program Costs	\$134,284
Total Utility Rebate	\$26,990
KW Saved	100
KWH Saved	244,643
Energy Savings	\$36,835
Operational Savings	\$4,029
Total Savings	\$40,864

ENVIRONMENTAL IMPACT	
Reduction in Carbon Dioxide (pounds)	366,965
Reduction in Sulfur Dioxide (grams)	1,370,002
Reduction in Nitrogen Oxide (grams)	611,608

GreenTech Energy Services, 122 East Kings Highway,  
Suite 503, Maple Shade, NJ 08052  
Phone: 800-690-0420 Fax: 856-778-1668  
[www.greentechenergy.com](http://www.greentechenergy.com)

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