



CHAMPION WINDOW AND DOOR HAUPPAUGE, NEW YORK

Champion Window and Door produces premium commercial windows and doors for distribution throughout the eastern region of the United State. Champion takes a comprehensive approach to sustainability, making a strong effort to recycle, minimize waste and pollution, reduce consumption, and provide long-lasting products. As part of this effort, the company hired GreenTech Energy Services to implement an energy efficiency project in its 100,000 square foot plant in Hauppauge, NY. The goal was to replace or retrofit obsolete, energy-hungry lighting with new technology, cut utility bills, and enhance the aesthetics of the plant.

The existing 400 watt metal halide light fixtures in the production warehouse and the side storage warehouse were replaced with new T5 fluorescent fixtures, equipped with wire cages for added protection, and motion sensors for added savings. The new fixtures improved light levels by at least 10% while saving a significant amount of energy. The existing T12 fixtures in the machine shop and corridor were retrofit with energy-efficient T8 lamps and low power electronic ballast. Wall-mounted motion sensors equipped with dual technology for motion and sound were installed in all of the individual front offices for added savings. The project is expected to pay for itself in a little over one year.

Lighting Program Cost	Controls Program Cost	Program Cost	Utility Rebate	*EPACT Tax Savings	Payback Period	KW Saved	KWH Saved	Total Savings
\$44,615	\$4,282	\$48,897	\$17,655	\$12,224	1.0	38	103,094	\$18,993

Environmental Impact:

- Reduction in Carbon Dioxide (pounds)-----154,642
- Reduction in Sulfur Dioxide (grams)----- 577,329
- Reduction in Nitrogen Oxide (grams)----- 257,736

