



## CASE STUDY: United Jewish Communities of MetroWest New Jersey



United Jewish Communities of MetroWest NJ is the key Jewish philanthropic organization for the Jewish community in the New Jersey counties of Essex, Morris, Sussex and part of Union. The organization is based in a 107,063 square foot facility in Whippany, NJ that houses a daycare center, conference center, library, offices, print shop and news department. As one component of an energy efficiency upgrade project coordinated by Quantum Clean Energy Solutions, Green Tech Energy

Services was hired to design and install a lighting retrofit that would cut energy consumption and reduce the facility's carbon footprint. The project included replacement of outdated T12 fluorescent fixtures and 400-watt metal halide high bays with state-of-the-art T8's and T5's. In addition, sensors were installed to turn lights off when areas are unoccupied. The retrofit has significantly brightened the office areas, reduced the building's carbon footprint, and produced annual savings of \$26,703.

### PROJECTED SAVINGS

- Total Program Costs - \$107,083
- KW Saved - 49
- KWH Saved – 146,821
- Energy Savings - \$23,491
- Operational Savings - \$3,212
- Total Annual Savings - \$26,703
- Payback – 3.2

### ENVIRONMENTAL IMPACT

- Reduction in Carbon Dioxide (pounds) – 220,231
- Reduction in Sulfur Dioxide (grams) – 822,195
- Reduction in Nitrogen Oxide (grams) – 367,051

*"GreenTech's crew was very accommodating. If they started working in one area, and an hour later we needed to use that space, they would pack up and move to another area, leaving it absolutely spotless. At one point, they were actually working right over people's heads, but they were very tidy and professional, so no one was disturbed. They even came in on Sunday to work around our schedule, and were able to finish the entire job in only three days."*

**Laurel Westrich, Assistant Director of Campus Management.**

**GreenTech Energy Services** is an innovative Energy Services Company (ESCO) that provides its customers with cost-effective energy reduction solutions. GreenTech has designed, engineered and installed energy-efficient retrofits in over 4,000 commercial buildings. For more information: 800-690-0420, [info@greentechenergy.com](mailto:info@greentechenergy.com), [www.greentechenergy.com](http://www.greentechenergy.com).

**Quantum Clean Energy Solutions** functions as an outsourced Sustainability Director to client organizations reviewing their entire energy portfolio including, procurement, consumption infrastructure and production developing cost cutting and/or new revenue producing strategies. For more information: [www.QuantumCES.com](http://www.QuantumCES.com), [info@QuantumCES.com](mailto:info@QuantumCES.com) or (908) 879-8516.