



GreenTech Helps Troxler Electronic Labs Cut Energy Consumption and Costs with LED Upgrade

Troxler now experiences a 68% reduction in lighting energy use with half of project paid for in energy rebates

GreenTech Solutions Group delivered an impressive **68 percent reduction in annual lighting use** for Troxler Electronic Laboratories, Inc. after an energy-efficient LED lighting upgrade of its Raleigh, NC facility.

Troxler, a mainstay of the Research Triangle Park, has been dedicated to developing, manufacturing, and servicing precision quality control measurement equipment since 1958. With a goal to be environmentally conscientious, the company sought the expertise of GreenTech Solutions Group to upgrade the existing outdated lighting throughout the facility with energy-efficient LED lighting.



Troxler carried out extensive product and industry research in selecting a partner for their lighting upgrade. **GreenTech worked closely with Troxler staff to provide recommendations on solutions vital to production**, and efficiency upgrade recommendations were confirmed by a third-party audit performed by North Carolina State University.

Legacy T12 strip lights were upgraded with energy-efficient LED tubes in manufacturing and engineering areas, and 2x4 troffers were replaced with dimmable LED panel lights allowing for customization of light levels in offices, labs, and common areas.

The result was dramatically better light quality that greatly helps to improve employee safety and increase productivity. The upgrade also included the replacement of external area lights with LED pole lights, flood lights, and wall packs to provide increased security around the facility and beautification of the building and grounds.

A summary of benefits includes the following:

- 68% reduction in annual lighting energy usage

- 2.2 year payback period
- \$81,900 savings in rebates
- \$40,603 savings annual lighting energy usage
- 451,151 kWh reduction in annual lighting energy usage

GreenTech assisted in securing **generous rebates from Duke Energy Progress that paid for nearly half the entire lighting project**. The energy savings combined with rebate incentives resulted in a **2.2 year payback** for Troxler. The LED lighting upgrade also resulted in a 318,431 kg decrease in greenhouse gases produced, which is the equivalent of 35,831 gallons of gasoline consumed or planting 261 acres of forest.

Troxler Electronic Laboratories truly represents a company that is environmentally responsible and sets a brilliant example for other industrial businesses to follow. GreenTech VP of Business Development Scott Jernigan added, “Troxler is a staple in the RTP community and a pioneer in local entrepreneurship that we all strive to emulate. We are privileged to have been selected as their lighting partner. Their staff was pleasant to work with and integral in making this a successful project.”

About GreenTech Solutions Group: Founded in 2009, GreenTech Solutions Group is designed as a full-service consulting firm to deliver proven energy-efficiency solutions that reduce clients’ consumption, help protect our environment, conserve resources, and ultimately generate a timely return on investment. We specialize in cutting-edge energy-efficient lighting, alternative energy production, mechanical efficiency, energy management, water conservation, electric vehicles, and more, planning and implementing projects for businesses of all sizes in every industry nationwide. For more information visit: <http://www.greentechsolutionsgroup.com/>

About Troxler Electronic Labs: Since 1958, Troxler has been the worldwide leader in precision quality control and measurement equipment for the highway and construction industries. We are dedicated to providing full service, training, and maintenance support for all our products through our international sales and support offices in the US, Canada, Germany and through our 50 distributors around the world. For more information visit: <http://www.troxlerlabs.com/>