



## CASE STUDY

### **R.A.S. Process Equipment, Inc.** Robbinsville, New Jersey

RAS Process Equipment has been serving the process equipment community since 1977, specializing in the custom design, engineering, and manufacturing of reactors, heat exchangers, and storage vessels. R.A.S. contracted with GreenTech Energy Services to install a lighting retrofit in its 50,000-square-foot manufacturing facility in Robbinsville, NJ, which was dimly lit with outdated light fixtures.



In the offices, GreenTech replaced all T12 fluorescent lamps with T8s, and installed low-wattage electronic ballasts. In conference areas, all 60-watt incandescent flood lamps were retrofitted to 15-watt screw-in compact fluorescent flood lamps, which have an extra long life expectancy compared to the incandescent lamps.

In the warehouse, task lighting was upgraded by replacing all fixtures that had two 96-watt 8-foot T12 lamps with fixtures containing four 28-watt 4-foot T8's. In production areas, all 400-watt metal halide lamps were replaced with new 2 x 4 surface-mounted fluorescent fixtures. An electronic ballast combined with six T5 lamps and new reflector lenses offered tremendous energy savings while increasing light levels and improving overall aesthetics.

#### **PROJECTED SAVINGS**

- Program Costs.....\$29,288
- EPACT Tax Savings.....\$6,752
- Payback Period.....2.6 years
- KW Saved .....2
- KWH Saved.....41,364
- Energy Savings..... \$6,618
- Operational Savings..... \$879
- Total Savings.....\$7,496

#### **ENVIRONMENTAL IMPACT**

- Reduction in Carbon Dioxide (pounds)..... 62,044
- Reduction in Sulfur Dioxide (grams)..... 231,634
- Reduction in Nitrogen Oxide (grams)..... 103,408

GreenTech worked efficiently and quietly, and the warehouses as well as the office areas have a much brighter, more updated appearance.

John Bonacorda  
Owner, R.A.S.