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KEROTEST MANUFACTURING CORP
Pittsburgh, Pennsylvania

Kerotest, a manufacturer and distributor of metal and plastic valves and equipment for the natural gas, chemical, and steam markets, contracted with GreenTech Energy Services to upgrade the lighting in its 33,000 square foot plant in Pittsburgh, PA.

- All fixtures with T12 lamps with electronic ballasts were retrofitted with a low wattage electronic ballast and T8 lamps to maximize energy savings and maintain or increase light levels according to state codes.
- All 400 watt metal halide lamps were either removed or replaced with new surface-mounted fluorescent fixtures. A high-output electronic ballast combined with three 47 watt T5 lamps and reflector lenses provided tremendous energy savings while increasing light levels and improving overall aesthetics. The efficiency of the fluorescent lamps will lower operating costs and provide a longer life expectancy than the old metal halide lamps.
- All 150 and 250 watt metal halide lamps were retrofitted with a 70 or 100 watt metal halide pulse start lamps. Pulse start metal halide lamps offer brighter light, longer life expectancy and lower operating costs than the older metal halide lamps.
- All 15 watt incandescent lamps were converted to new 2 watt battery back-up LED exit signs.

The new lighting has not only cut energy consumption and utility costs but enhanced the safety and security of the workspace and improved the quality of light, allowing for tighter quality control on the production line. The project is expected to pay for itself in less than two years.

Energy & Cost Savings:

- Program Cost-----\$\$37,101
- Utility Rebate-----\$\$6,886
- EPACT Tax Savings-----\$4,950
- Payback Period-----1.8
- KW Saved-----39
- KWH Saved-----111,555
- Energy Cost Savings---\$12,940
- Operational Savings---\$1,113
- Total Savings-----\$14,053



Environmental Impact:

- Reduction in Carbon Dioxide (pounds)-----167,333
- Reduction in Sulfur Dioxide (grams)----- 624,708
- Reduction in Nitrogen Oxide (grams)-----278,888