

Archdiocese of New York

New York
Catholic Center
1011 First Avenue
New York, NY

FACILITY DESCRIPTION
Offices & School

HOURS OF OPERATION
18,000-2,400 per year

TOTAL KWH REDUCTION
371

ANNUAL ENERGY SAVINGS
\$128,399.00

CON EDISON REBATE
\$135,817.00

PAYBACK
1.9 years

The New York Catholic center, home to Cardinal John O'Connor, The Cathedral High School and various liturgical offices had committed to relight their 20-story building to conserve energy. They turned to Environmental Energy in NYC to provide direction on technology, management support and rebate coordination. Environmental Energy chose Energy Solutions as their material supplier and technical support partner.

NEW YORK CATHOLIC CENTER CUTS ENERGY BILL \$128,000.00 A YEAR!

Relighting for Energy Conservation

OFFICE AREAS

Sixteen floors of this 20-floor complex are committed to office space. In addition to the energy saving objective, an older than average work force required increased light levels to improve visual comfort and reduce eye strain. Offices were lit with 2x4 recessed fixtures containing (4) 40-watt or 34-watt T12 lamps. Utilizing state of the art computer software Environmental Energy designed a reflector retrofit converting the fixture to (2) F32T8 lamps with an electronic ballast. While energy consumption was reduced by 50%, light levels increased from 50 foot candles to 65 foot candles maintained. Recessed 2x2 fixtures were retrofitted from (6) F20 lamps to (2) F17 lamps and reflector for a 60% reduction in energy.

THE CATHEDRAL SCHOOL

The School was lit with continuous rows of 2-lamp F40T12 wrap around fixtures, which were converted to F32T8 lamps and electronic ballasts on a one for one basis. In the cafeteria where fixtures and light levels were badly depreciated, fixtures were converted from (4) F40T12 lamps to (2) F32T8 lamps with reflectors and electronic ballasts. The fixtures were washed and lenses were replaced. The result was improved light levels, uniformity and more pleasant appearance overall.

GYMNASIUM

In the gym, existing 500-watt recessed incandescent fixtures were replaced with Lumark 250-watt metal halide recessed fixtures on a one for one basis. Light levels increased from 10-15 foot candles to over 50 maintained foot candles, for a dramatic improvement.

SEEING THE LIGHT

The end result was the replacement of over 6000 ballasts, with an approximate 60% reduction in the annual energy bill. Maintenance costs were reduced by converting to lamps with a much longer life. Re-lamping in the gymnasium went from twice a year to once very thirteen years. The disposal of thousands of PCB ballasts and the filling of all rebate documentation was handled by Environmental Energy, causing no inconvenience to the church. Rather than spending their money on lighting and electricity, the diocese will have an extra \$264,000.00 for charitable cause in the first year alone.



Energy Solutions is a division of O.K. Electric Supply Company designed to reduce your company's operating costs while conserving energy. O.K. Electric is an EPA Green Lights Buildings Ally and offers the best solution for both our environment and our customers.

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