# CASE STUDY| THE KOREAN PRESBYTERIAN CHURCH IN NEW YORK INC

## OVERVIEW

The client, Korean Presbyterian Church in New York Inc, is a large religious facility located in Long Island City, Queens. It is breathtaking, with a 1500 capacity sanctuary designed by California-based architect, Greg Lynn. Efficienado Solutions, LLC, recognized the frequency, intensity, and multitude of lighting hours used by a large religious facility. Traditionally, religious facilities keep their doors open to parishioners all week, and for many hours of the day and evening, creating high operating costs to the congregation. As closing the doors to the church, their parishioners, and the community is not an option, the only solution to decrease operating costs for the religious facility is to operate their facility more efficiently.

Our professional energy auditors identified and analyzed the church as operating for long hours, and using many high wattage and inefficient lights throughout the facility. We recommended a lighting retrofit as the most cost-effective energy saving plan.

## THE SOLUTION

Prior to Efficienado Solutions' retrofit, the religious facility's existing lighting was outdated, inefficient, and ineffective. As a solution to reduce expenses, we recommended this customer upgrade their existing lighting to cutting-edge light emitting diodes (LED's).

After we informed the client of the Con Edison 70% incentive program available, the client had no hesitation to move forward with the recommended proposal. As part of our services, we oversee and facilitate the process of applying for approval from Con Edison.

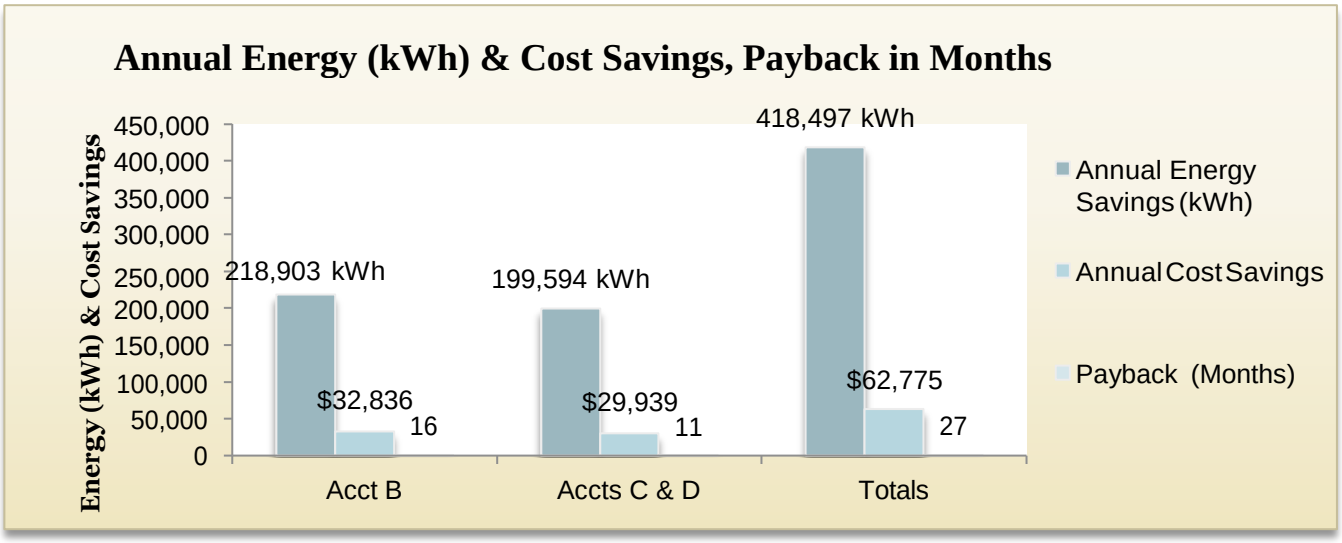
## Financial Benefits and Results

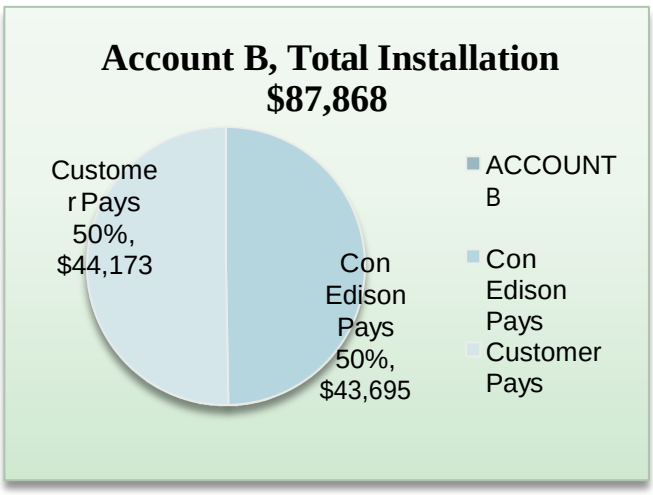
Result #1: Reduce operating costs; specifically electric usage will decrease.
Result #2: Expense of replacing and maintaining lighting will be substantially lowered.

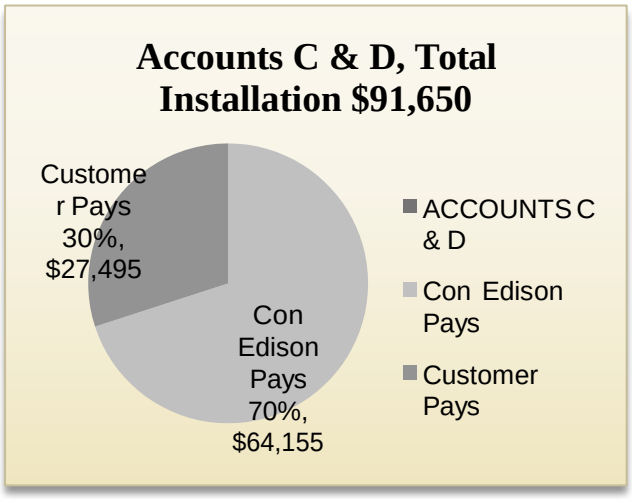
Result #3: Improved lighting quality. A highly experienced lighting and energy efficiency expert, and our team collaborated on best recommendations for replacement bulbs and fixtures.

| Annual Energy (kWh) & Cost Savings, Payback in Months for Installation | | | |
|---|---|---|---|
| | Acct B | Accts C & D | Totals |
| **Annual Energy Savings (kWh)** | 218,903 | 199,594 | 418,497 |
| **Annual Cost Savings** | $32,836 | $29,939 | $62,775 |
| **Payback (Months)** | 16 | 11 | 27 |

The Con Edison incentive was 70 percent of the client's gross project cost. The customer has benefited from a first year cost savings following the retrofit of $62,775 dollars; they will continue to gain this savings for many years forward. The overall reduction of harmful $CO_2$ per year has been and continues to be, (xyz) pounds.



## Company Profile

EFFICIENADO SOLUTIONS, LLC is a preeminent energy efficiency firm based in Manhattan, NY. Our company provides businesses with measurable cost saving reductions using the following:

- Strategic partnerships with major utility companies such as: PSEG, LIPA, and Con Edison. We work with our customers as approved facilitators for rebate programs developed and administrated by the New York State Energy and Research Development Authority (NYSERDA).

- Alternative financing methods that enable businesses and building owners with options to implement the most effective energy programs that allow maximum positive impact on the environment.

- Seasoned energy efficiency professionals who have implemented and completed over (3000) commercial projects that have delivered over (15 MW) energy reduction for our clients.

Our team provides:

- Energy audit reports, analysis, and recommendations.
- Design, procurement, and installation of energy upgrades.
- Financing of energy upgrades.
- Management and advisement on processing and obtaining rebates and financing options with available funding programs.

For additional information about our services or to arrange a no obligation consultation please contact us! We look forward to assisting your company!

Efficienado Solutions, LLC

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