

HVAC Systems: NJ Energy Program

Project: St. John Lutheran Church

A substantial HVAC and lighting efficiency opportunity which qualified for an energy efficiency incentive from Atlantic City Electric that covered nearly 80% of the implementation cost, while also generating a 15% utility savings.

Background

A century-old congregation located near the New Jersey seashore, St. John Lutheran Church consists of a sanctuary, gymnasium, kitchen and lounge. The building was utilizing 30+-year-old HVAC equipment which was impacting both utility bills and occupant comfort.

CM3 conducted a detailed site assessment of the HVAC equipment and partnered with CMC Energy to assess the lighting. Through this process, CM3 identified which equipment needed to be replaced and which replacements would qualify for incentives under Atlantic City Electric's (ACE) Clean Energy Program.

Results

Under the ACE Clean Energy program, St. John Church was able to obtain two new Lochinvar boilers and six Fujitsu ductless splits (plus LED lighting from CMC Energy) and received a substantial energy efficiency rebate through this important initiative.

Although the original replacement cost for all this was \$239,000, the ACE rebate covered nearly 80% of that cost (\$183,000). Additionally, St. John Lutheran Church qualified for the 0% on-bill repayment program, which enabled the Church to pay the remaining \$56,000 over a 60-month period - essentially less than \$1000 per month for all new HVAC and lighting.



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The New Jersey Clean Energy Program provided a wonderful opportunity for the Church to obtain much-needed improvements in its HVAC and lighting systems while achieving greater energy efficiency.

As a congregation with several outreach and charitable missions, we were grateful to participate in this program.

- Karl Yunghans
Council President, St. John Church

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About the program

The Small Business Direct Install Program from the New Jersey Clean Energy Program is designed to help small organizations use less energy and save more on their utility bills. The program is particularly relevant to schools, faith-based organizations and small businesses, because participants in this program must have an annual electric demand of 200kW or less.

The program covers a significant percentage of the upfront cost to install the recommended energy efficiency measures which include:

- » LED lighting and lighting controls (interior, exterior)
- » HVAC upgrades and controls
- » Building automation controls
- » Refrigeration equipment
- » Motors and variable frequency drives
- » Efficient water heating measures

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The ACE Clean Energy program is a game-changer, especially for churches and other non-profit organizations. Between the utility rebates and on-bill financing, energy efficiency and sustainability are an achievable goal that any building owner can pursue.

- Pat Hannigan,
CM3 HVAC & Mechanical Services

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BEFORE



AFTER

