CASE STUDY – ST. JOHNS UNIVERSITY – QUEENS, NY

COLLEGES AND UNIVERSITIES

Determining energy-efficient opportunities at the start

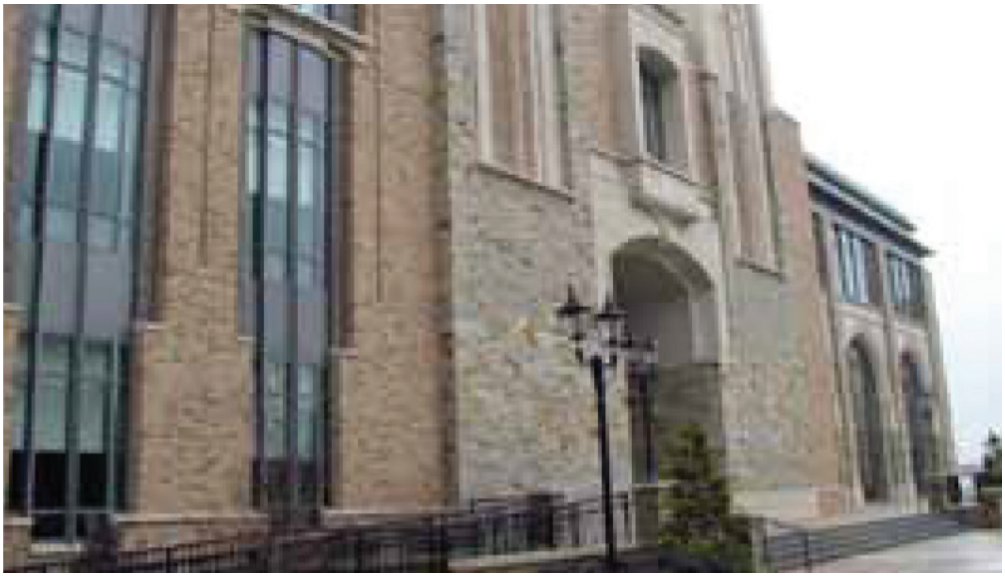

Photo Credit: NYSERDA

Results

In total, St. John's University investment could result in:

- Annual energy savings of more than 1,092, 274 kWh
- Peak demand savings of 461 kW in the summer
- Annual energy cost savings of almost $244,639
- Simple payback (after incentive) of 7.83 years for project

The St. John's University Center and Academic Center (UCAC) is a 100,000-square-foot building in Queens, NY. The UCAC includes classroom spaces, student meeting and social spaces, multi-purpose rooms, a cafeteria, and a new boardroom. The building operates 12 hours a day, five days a week for the full year. The design goal was to reduce electrical and thermal energy use by means of energy-efficient measures.

Ambrosino, DePinto & Schmieder (ADS) was retained by NYSERDA to evaluate electric energy efficiency opportunities for the new building.

Recommendations

AKF Engineers prepared an energy model that utilized a whole building measure analysis to examine the interactions among various energy efficiency measures for the entire building. Trane Trace 700 modeling software was used. ADS Engineers conducted a peer review of the model and reviewed AKF Engineers' Technical Study.

Among the energy efficiency improvements implemented in the building were:

- District cooling
- Advanced lighting systems
- Demand control ventilation
- High-efficiency displacement HVAC Variable flow laboratory exhaust system

"It is a pleasure to work with the NYSERDA staff and their technical assistance providers. Their professional services and wide breadth of knowledge has helped St. John's University increase its energy efficiency and achieve its carbon emissions reduction goal of 30% by the year 2017."

— Brij Anand, Vice President Campus Facilities and Services

Get started

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