

PARTNER ENERGY

The analysis for this project was conducted for NYSERDA by Will Shoard while employed by EME Group.

CASE STUDY: WEILL CORNELL MEDICAL

OVERVIEW

The new Ambulatory Care Building on York Avenue and 70th Street in New York City constitutes the first step in what is envisioned as a state-of-the-art expansion to the prestigious Weill Cornell medical campus. The Medical College achieved its institutional goal of being sensitive to the community and environment while advancing healthcare in the 21st century.

The 12-story, 255,000 gross square foot structure was completed in January of 2007 and comprises examination rooms, office space, teaching facilities, patient areas, facilities management spaces, and an underground parking garage.

ENERGY MODELING

The goal of energy modeling is to quantify the savings from various energy efficiency measures during the design phase of a project

PROJECT DETAIL

Partner Energy staff were responsible for liaison with the client, architect, and design team to quantify the effects of incorporating various energy saving measures into the building design for the development.

Responsibility included preparation of the Technical Assistance report detailing the conclusions of the energy study and analysis; simulation of the building incorporating all interactive energy saving measures such as a high efficiency building envelope; the use of a high-tech ventilated double-skin façade to reduce building heat losses and gains; the use of variable frequency drives fitted to motors on equipment throughout the building; steam absorption chillers; and demand based ventilation serving the basement parking garage by way of carbon monoxide sensing and detection.

Partner Energy staff were also responsible for checking that the proposed building design and HVAC systems met the requirements of the Energy Conservation Code of New York State.



:: BUILDING SNAPSHOT ::

Building Name

Weill Cornell Ambulatory Care Facility

Location

New York, New York

Year Built

2007

Energy Efficiency Measures

- High efficiency building envelope -
- Ventilated double-skin façade -
- Variable Frequency Drives -
- Demand based ventilation -
- Steam absorption chillers -

Project Benefits

NYSERDA energy financing incentives
Lower operating costs
Increased tenant comfort
Leader in sustainable building practices