

# Weill Cornell Medical College

New York, NY

## Background

Weill Cornell Medical College (WCRC) built a new 330,000 square foot, 15-story facility which includes exam rooms, office space, teaching facilities, and patient areas, with three below grade levels for parking, storage, and additional mechanical space.

EME Group (EME) was retained by NYSERDA to evaluate electric energy-efficiency opportunities for the new facility, under the New Construction Program. For comparative purposes a baseline model was developed meeting the requirements of ASHRAE and the applicable NYS Energy Construction Conservation Code, following NYSERDA's requirements.



## Recommendations

EME investigated and analyzed several energy-efficiency measures through the Whole Building approach, for consideration and inclusion in the project.

Among the energy-efficiency improvements implemented in the building were:

- High efficiency building envelope
- Building management system
- Carbon monoxide controlled garage ventilation
- Variable speed driven cooling tower fans
- Two-stage steam absorption chiller
- Waterside economizer
- Variable speed driven pumps

## Incentives and Results

NYSERDA's incentive of \$400,000 helped Weill Cornell Medical College defray a portion of the implementation cost to install the efficiency improvements. In total, the Weill Cornell Medical College investment could result in:

- Annual energy savings of more than 965,885 kWh
- Peak demand savings of 682.3 kW in the summer
- Annual energy cost savings of almost \$160,590

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