

Natural Resource Defense Council (NRDC)

New York, NY, New York County

Background

Occupying floors 9 through 12 of an office building, the NRDC increased its space by approximately 9,000 square feet through the complete renovation of the 8th floor, with open workstations at the perimeter and an office/small room core.

EME Group (EME) was retained by NYSERDA to evaluate electric energy efficiency opportunities for the renovation, under the New Construction Program.

Recommendations

EME completed a technical assessment of the project, modeling the building using DOE-2 simulation software to facilitate the interactive relationship between energy efficiency measures and their combined effect on overall building energy usage.

Among the energy efficiency improvements implemented in the building were:

- High Efficiency Lighting
- Daylighting Controls
- Occupancy Sensors
- Demand-based Ventilation
- Waterside Economizer
- Variable Speed Drive

Incentives and Results

NYSERDA's incentive of \$36,875 helped the National Resource Defense Council defray a portion of the implementation cost to install the efficiency improvements. In total, the NRDC investment could result in:

- Annual Energy savings of more than 36,797 kWh
- Peak demand savings of 16.6 kW in the summer
- Annual Energy Cost savings of almost \$8,228
- Simple payback (after incentive) of 2.2 years for project

The NRDC 8th floor renovation is 32.2% above ASHRAE 90.1-04 ECB.

