

GEATAIN ENGINEERING

CASE STUDY-THE LOWELL HOTEL



BACKGROUND

The Lowell is a luxurious hotel located at 28 East 63rd Street, near Central Park and Madison Avenue. Its grandeur is complemented by a need for energy savings. The hotel primarily uses electricity, with lighting mainly consisting of CFLs and incandescent bulbs. The domestic hot water temperature is high, and the R-values for fenestration are low, which impacts the building's envelope.

HOW GEATAIN ENGINEERING HELPED

- Completed granular analysis into condition of existing electric panels to determine if they could be reused for future electrification.
- Analyzed annual operating and maintenance records to reveal several important trends that lead to increased carbon reductions.
- Heating percentage and electric percentage analysis revealed core property equipment challenges.
- Researched funding sources offered by NYS for each individual energy efficiency measure to help ease financial burden of EEMs.

BENEFITS

- Advanced heating controls show real time energy usage and historic trends to help identify savings opportunities.
- Adjusting ventilation schedules helps prolong equipment life and magnifies savings.

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SIMPLE LL97 COMPLIANCE
PAID BY OTHERS

CHALLENGES

- Floor to ceiling windows on top floor impact envelope.

SOLUTIONS

- Water pump VFD.
- Thermography to improve building envelope.
- New single doors.

LIFECYCLE SAVINGS

\$ 52,250

For more information,
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