

GEATAIN ENGINEERING

CASE STUDY-PREMIER HOTEL



BACKGROUND

Premier Hotel is located in the heart of Times Square near several NYC attractions, restaurants, theatres, and metro lines. The hotel has several amenities perfect for business or leisure travel. Geatain evaluated this building and found \$320,500 lifecycle savings.

HOW GEATAIN ENGINEERING HELPED

Geatain implemented the following step by step analysis:

- Followed a specific methodology to determine existing conditions and the most critical HVAC equipment to design the most effective BMS system.
- Examined most practical spaces in building to locate wall occupancy sensors for increased savings.
- Analyzed building operations to determine precise recommendations to improve occupancy comfort, streamline operations and lower carbon emissions.
- Evaluated tightness of several different types of windows within building to help refine capacity of heat pump system.

BENEFITS

- Advised ownership of opportunities to delay large outlay of capital while complying with Local Laws.
- Lighting controls allow for seasonal adjustment of lighting, following seasonal equinox changes.



CHALLENGES

- Limited temperature controls.
- Equipment operating past its useful life causing high energy costs.

SOLUTIONS

- Thermostat replacement.
- Occupancy sensors.
- LED lighting.
- Power energy management.
- Ventilation improvements.

LIFECYCLE SAVINGS

\$ 320,500

For more information,
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