

GEATAIN ENGINEERING

CASE STUDY-1 HOTEL



BACKGROUND

The 1 Hotel is located in the heart of Manhattan 6th Ave between 58th Street and 57th Street. This luxury hotel provides guests an urban retreat with its close proximity to central park. This 17-floor building was built in 2014 and features 113,500 square feet of meeting space, 229 attractive guest rooms, and a 24/7 fitness facility with modern fitness equipment.

HOW GEATAIN ENGINEERING HELPED

- Provided extensive startup, commissioning and training services to operations staff to ease transition to new equipment.
- Followed a specific methodology to determine existing conditions and the most critical HVAC equipment, designing an efficient Building Management System.
- Extra attention was paid to equipment performance to uncover earlier than anticipated replacement needs.

BENEFITS

- A mix of measures implemented to lower energy costs, including lighting, HVAC, and occupancy controls.
- Identified hidden opportunities for occupants to lower energy costs.

geatain
SIMPLE LL97 COMPLIANCE
PAID BY OTHERS

CHALLENGES

- No BMS system.
- Only 17% LED lighting.
- Phantom electric loads.

SOLUTIONS

- Lowering DHW temperature.
- LED lighting.
- Light controls.
- BMS heat controls.
- Cogeneration.
- Batteries.

LIFECYCLE SAVINGS

\$ 1,633,000

For more information,
email tjm@geatain.com