

# BOILERS REPLACEMENT IN 7 WEST 96<sup>TH</sup> STREET

NY Building Systems Consultant Inc. (NYBSC) recommended install multiple boilers instead of single boiler to save more energy as part load savings. After completing the Energy study, the building board and property management excited to hire NYBSC engineering design team replacement of old oil-fired boiler by new high efficiency dual-fuel boilers. The building also awarded to NYBSC for manage the boilers construction work on time and within the budget.

## BUILDING PROFILE

Address: 7 West 96<sup>th</sup> Street, New York  
Square Foot: 100,316  
Type: Multifamily  
Units: 84  
Year of Built: 1931  
Management: Douglas Elliman

## NYBSC SERVICES

- Energy Study
- Boilers Replacement Design
- Construction Project Management
- NYC Local Law 87
- Dual Fuel Replacement

## PROJECT SUMMARY

- Annual Cost Savings: \$33,161
- Project/Capital Cost: \$1,061,857
- Solution: Replacement of single old boiler by multiple new boilers.



### The Objectives:

The objective of the new boilers design was to provide the facilities of heating and domestic hot water for the tenants without interrupt the service and reducing the building energy consumption as well as operational cost.

### The benefits of using natural gas as main fuel:

- ✓ Reduce the building's greenhouse gas emissions.
- ✓ Reduce the fuel and maintenance cost by using modern control system including programmable thermostats, night and weekend setbacks and warm weather shutdown.

### The benefits of using multiple boilers

(Running multiple boilers vs. single boiler):

- ✓ Boiler system optimization can save the energy running the small boiler during the part load hours and follow the building load profile.



OLD BOILER



NEW BOILERS