

CLIENT

BALLANTYNE HOUSE

LOCATION:

Newark, NJ

CONSTRUCTION VALUE:
\$0.4 Million

DESIGN START:
July 2009

DESIGN COMPLETE:
N/A

CONSTRUCTION COMPLETE:
N/A

SCOPE OF WORK

Energy Audit for HVAC Systems

PROJECT DESCRIPTION

Ballantyne House is a 16 story Residential Apartment complex with 170 dwelling units.

The existing HVAC System in the Building comprises of Hot Water Radiators for Heating and Window A/C units for Cooling.

A&J Consulting Engineering Services, P.C. was retained to perform an Energy Audit of the HVAC System and make recommendations based on the same to reduce operating cost of the facility. A&J performed Energy Audit for the space and recommended replacement of existing inefficient Cast Iron Hot Water Boilers with new high efficiency Condensing Boilers and installation of Reflective type roof with higher R value (R-21). Since windows were traced for air leakage A&J recommended provision of insulation and caulking around window frames along with double pane glass windows to reduce heat loss.

The Proposed System estimated 47 % saving in natural gas usage and 32% saving in electricity usage for HVAC system as compared to the existing HVAC System.

