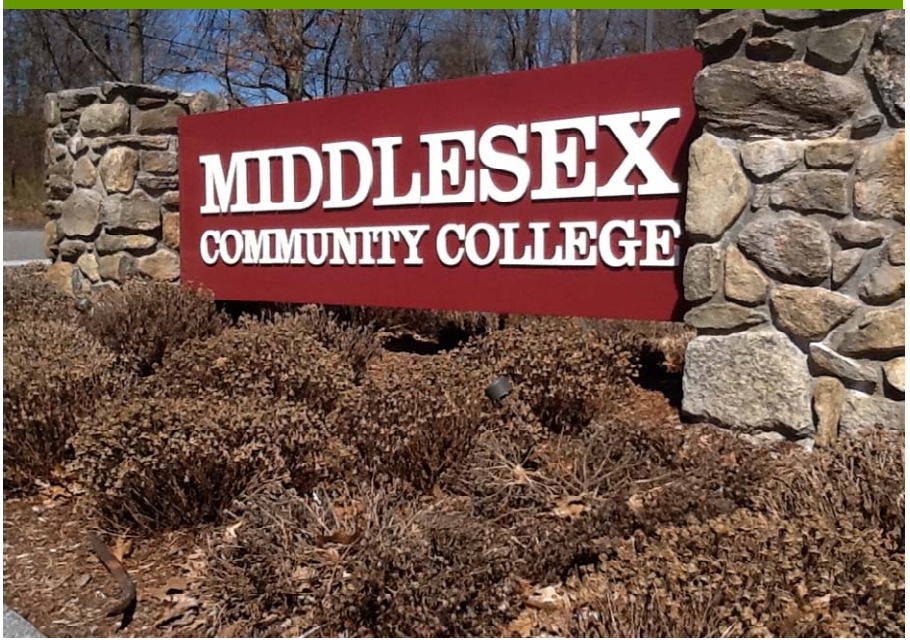
Middlesex Community College
Bedford, MA



AMERICAN DEVELOPMENT INSTITUTE

Web: www.ad-institute.com
E-mail: info@ad-institute.com

SUMMARY

Enterprise Equipment Company and (EEC) and ADI Energy were chosen by the Division of Capital Asset Management and Maintenance through an RFP process to audit, design, engineer and construct an energy savings project at the Middlesex Community College under the Accelerated Energy Program. EEC and ADI Energy assembled an energy performance contract aimed at improving the University's energy efficiency and building systems infrastructure.

Investment: $5.4 Million
Annual Savings: $110,682

SERVICES

- Conservation solutions
- Energy engineering
- Construction management
- Measurement and verification
- Commissioning
- Training

MEASURES

- Fume Hood Conversion CV to VAV
- AHU Replacement
- Variable frequency drives
- Air Cooled Condensing Units
- Electric to Gas Conversion
- Boilers
- Air Side Economizers
- Energy Management Systems
- Chillers

UNIQUE VALUE TO CUSTOMER

Under the Division of Capital Asset Management and Maintenance (DCAMM) under its Accelerated Energy Program, Middlesex Community College (MCC) hired Enterprise Equipment Company (EEC) and ADI Energy to engineer, design and construct an energy savings contract at the community college's Bedford, MA campus.

EEC and ADI Energy assembled a project aimed at improving MCC's energy efficiency and building systems infrastructure. We verified the DCAMM prepared scope of work for improvements that formed the basis for the performance efforts and resulted in the recommendation of relevant Energy Conservation Measures (ECMs).

The final package delivered a wide range of important energy conservation and infrastructure improvements that were funded entirely from the utility cost savings while delivering positive cash flow over a 15-year Contract Term. Key infrastructure improvements centered around extensive HVAC and control upgrades. The upgrades included new chillers and boilers, air side economizers and condensing units. Over 1,500 new control points and central energy management system were installed. Additionally the lab fume hoods were switched from constant volume to variable volume.

The existing equipment had reached the end of its useful life and extensive. Through the energy savings and utility incentives MCC was able to improve its campus and carbon footprint. The annual savings will exceed $100,000 annually.