



AMERICAN DEVELOPMENT  
INSTITUTE

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SUMMARY

ADI Energy conducted a Zero Net Energy feasibility study and has been retained by the Department of Energy Resources (MA - DOER) to prepare a scoping energy audit for the Bay Path Regional Vocational Technical High School building in Charlton, Massachusetts.

Energy Consulting Massachusetts

**Size:** 1 building, 203,000 square feet  
**Overall value:** \$840, 000  
**Annual savings:** \$75,000  
**Payback:** 11 years

SERVICES

- Energy audit
- Energy savings analysis
- Benchmarking
- ECM recommendations
- Energy profiling
- State utility incentive program recommendations
- Energy conservation
- Sustainability

MEASURES

- Solar Thermal
- Biomass Energy
- Retro-commissioning
- Energy management system (EMS)

## Department of Energy Resources-MA Bay Path Regional Vocational Technical High School



### UNIQUE VALUE TO CUSTOMER

The Governor of Massachusetts issued a challenge to design and construction professionals to help the state and private sector construct buildings that are greener than ever before and make Zero Net Energy buildings the construction industry standard by 2030.

With that, ADI Energy is completing a Zero Net Energy study for the Bay Path Regional Vocational Technical High School building that includes an integrated design for renewable energy options and an energy-efficient school building.

ADI Energy also conducted an energy audit to the building in order to identify cost-effective energy conservation measures (ECMs) that would qualify for funding under DOER's Energy Conservation Improvement Program (ECIP).

Based on Bay Path Regional Vocational Technical High School's energy usage, ADI Energy's determined that the building already used less fuel and electricity than most other buildings of its type in Massachusetts. ADI Energy is developing Biomass and Solar Thermal Feasibility studies for this facility to reduce its carbon footprint. The facility is looking at Wind Energy, solar PV to off-set the remaining energy usage.