



AMERICAN DEVELOPMENT
INSTITUTE

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SUMMARY

American Development (ADI Energy) was hired by the Massachusetts Department of Energy Resources (DOER) to investigate the economic and operational impacts of installing a biomass energy plant at Fitchburg High School in Fitchburg, MA.

Size: 246,000 sq. ft.

SERVICES

- Life cycle cost analysis
- Capital investment and maintenance planning
- Consumption usage analysis
- Site evaluation
- Resource assessment
- Consumption usage analysis
- Environmental and regulatory analysis
- Investment grade audit energy
- Preliminary assessment for energy
- Alternative energy services
- Energy engineering
- Energy financial analysis
- Energy conservation
- Energy reduction

MEASURES

- Biomass heating plant

Fitchburg High School (Feasibility Study for Biomass Heating Plant) Fitchburg, MA



UNIQUE VALUE TO CUSTOMER

The City of Fitchburg is searching for a more efficient, economical solution to their growing energy costs of Fitchburg High School.

ADI Energy has estimated that a wood chip biomass heating plant has a superior life cycle cost to a current fossil fuel. The capital cost of the wood chip system is approximately \$785,000. This cost would include a new biomass boiler system and wood chip storage building at Fitchburg High School. Fitchburg High School will save 133,603. The payback of the Fitchburg High project will be in 5.9 years.

ADI Energy provided the City of Fitchburg with a report that had an assessment of the wood chip biomass heating plant due to the fact that it has a superior life cycle cost to existing fossil fuel heating. ADI Energy also presented extensive detail on current industry practice, assessed biomass fuel availability specifically relevant to the Fitchburg High School project, and concluded with an investment evaluation of a recommended system.

