



AMERICAN DEVELOPMENT  
INSTITUTE

Web: [www.ad-institute.com](http://www.ad-institute.com)  
E-mail: [info@ad-institute.com](mailto:info@ad-institute.com)

**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 Memorial School in Fitchburg, MA.

**Size:** 125,000 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
- Utility management
- Utility reductions

**MEASURES**

- Biomass heating plant

## Fitchburg Memorial 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 Memorial 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 \$488,000. This cost would include a new biomass boiler system and wood chip storage building at Fitchburg Memorial School. Fitchburg Memorial School will save 110,675. The payback of Fitchburg Memorial School project will be in 4.42 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 this project, and concluded with an investment evaluation of a recommended system.

