



AMERICAN DEVELOPMENT
INSTITUTE

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SUMMARY

ADI was hired to investigate the economic and operational impacts of installing a biomass energy plant at the Zambarano Hospital Facility in Burriville, RI.

Size: 500,000 sq. ft.

Zambarano Memorial Hospital (Central Biomass Plant Project) Burriville, RI



SERVICES

- Life cycle cost analysis
- Capital investment and maintenance planning
- Consumption usage analysis
- Site evaluation
- Resource assessment
- Consumption usage analysis
- Environmental and regulatory analysis

MEASURES

- Biomass heating plant

UNIQUE VALUE TO CUSTOMER

Zambarano Hospital is searching for a more efficient, economical solution to their growing energy costs.

ADI developed a solution whereby a new biomass plant will be installed at the facility with an estimated initial investment of \$2,200,000. The Zambarano Hospital will save \$507,000 and will eliminate over 1200 tons of CO₂ on an annual basis.

ADI provided the Zambarano Hospital with an assessment and recommendations on the existing cooling systems, biomass as a fuel source, technology options, project economics analysis and the evaluation of the potential of cogeneration and Ground source heat pumps (or GEO-Exchange) at the site. ADI concluded that construction of a new building for chip storage and/or the new boiler system is the most appropriate at this time.