



AMERICAN DEVELOPMENT
INSTITUTE

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Waltham Housing Authority



SUMMARY

Completed HUD required Energy Audit for all federal developments for this housing authority that is required under 24 CFR Part 965 Subpart C

Biomass Energy Massachusetts
DOER Massachusetts
Solar Energy Massachusetts

Overall value: \$1 million

SERVICES

- Energy audit development and analysis
- Energy savings analysis
- Preparing/analyzing energy savings M&V reports
- Energy Trending
- Energy Modeling
- Sustainable energy solutions
- Energy reduction
- Engineered solutions

MEASURES

- Lighting
- HVAC upgrades
- Energy Management System (EMS)
- Steam traps
- Variable speed drives
- Boiler Replacement
- Cogeneration

UNIQUE VALUE TO CUSTOMER

The performance of an investment quality comprehensive energy audit has a number of valuable services. The services included an audit of current consumption and systems within the Waltham Housing Authority. The energy audit was completed utilizing a building energy use simulation software package. ADI Energy evaluated:

- The design and specification of energy efficient equipment and systems within the Waltham Housing Authority.
- Services associated with the procurement, installation, and commissioning of new energy efficient equipment.
- Preventive and emergency maintenance and servicing of the equipment installed.
- Training facility staff with respect to routine maintenance and operation of all improvements on an on-going basis.
- Resident training and education on an on-going basis
- Financial incentives and rate reductions available from companies supplying fuel oil, natural gas, electricity, or transmission and associated distribution services in compliance with HUD's rate reduction incentive regulations.

The report ranked all measures with **30-year paybacks** or less by project, listing the construction cost, energy usage, cost savings, the proposed metering configuration, proposed verification methodology and application of weather adjustments.