



AMERICAN DEVELOPMENT
INSTITUTE

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SUMMARY

ADI designed and furnished the solar thermal equipment at the Hampshire County Correctional Facility in Northampton, Massachusetts for one of the largest installations of Solar Thermal in MA (267 panels). The project resulted in the largest solar thermal array in Northeast U.S.

Energy Conservation Massachusetts

Solar Energy Massachusetts

DCAM Massachusetts Energy

SERVICES

- Energy audit development and analysis
- Alternative energy services
- Conservation solutions
- Commissioning
- Project development
- Site evaluation
- System evaluation
- Project Design
- Partner Solicitation
- Procurement
- Preliminary assessment for energy
- Energy consultants
- Energy reduction

MEASURES

- Solar Thermal

Hampshire County Correctional Facility Solar Thermal Hot Water Heating Project



**UNIQUE VALUE
TO CUSTOMER**

ADI Energy and its team designed, constructed, and commissioned the largest solar thermal system in the Commonwealth, including the preparation of specifications and design documents necessary to construct the solar thermal system in accordance with all the requirements of the Contract.

Solar energy is transferred to the building HW Heating System via a floor-mounted, plate and frame heat exchanger. Building heating water is subsequently stored in a 4,000-gallon tank. This tank, which supplies hot water for use in the building heating, also serves as the source of heat to generate Domestic Hot Water. The result is one of the largest Solar Hot Water Heaters in the US. Over 1000 lineal feet of racked panels were installed in a security sensitive environment.

ADI Energy also provided commissioning services for this solar thermal project in addition to feasibility, design, and procurement. The commissioning plan was consistent with the standards of the Building Commissioning Association (BCA).

ADI Energy developed and comparatively analyzed four distinct options prior to recommendation of the optimal choice.

