



AMERICAN DEVELOPMENT  
INSTITUTE

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**SUMMARY**

As part of its renewable energy evaluation contract with the Commonwealth of Massachusetts, ADI Energy provided a phase I feasibility study to determine if the site could reduce its energy usage and its carbon foot print. ADI Energy evaluated all potential energy conservation measures as well as renewable energy measures such as biomass energy options, wind resources and solar energy production. This site has the unique attribute of being isolated from the electrical grid. The implied electric rate is \$0.65/kWh.

**SERVICES**

- Site evaluation
- System evaluation and design
- Resource assessment
- Consumption usage analysis
- Wind power assessment modeling
- Performance Specifications
- Commissioning
- Solar power assessment modeling
- Sustainability
- Engineered solutions

**MEASURES**

- Integrated Renewable System
- Wind Turbine
- Solar
- Biomass
- Geothermal Energy

# Georges Island Renewable Energy Study Boston Harbor, MA



**UNIQUE VALUE TO CUSTOMER**

Under Phase I ADI Energy developed a model to estimate future energy consumption and costs based upon renovations to the mine storage and generator buildings, as well as the addition of a new maintenance facility.

Using the information from the model, ADI Energy developed three options for lowering energy consumption and costs. They've estimated the potential for utilizing renewable energy sources to provide a portion of the energy consumption after the proposed renovations to the facilities.

ADI Energy was contracted after Phase I to provide a performance specification and design guidelines for Massachusetts "large-scale" off-grid PV system.

