



AMERICAN DEVELOPMENT  
INSTITUTE

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**SUMMARY**

As part of its renewable energy evaluation contract with the Commonwealth of Massachusetts, ADI Energy prepared a feasibility study of locating a wind turbine generator (WTG) at the Plymouth County Correctional Facility. The study evaluated two different sizes of WTG at a site adjacent to the Correctional Facility. Site elevation included wind resource analysis, net-metering analysis, energy production, MET tower data review and Geo-technical evaluation.

**Overall value: \$4.9 Million**

**SERVICES**

- Site evaluation
- System evaluation and design
- Resource assessment
- Consumption usage analysis
- Wind power assessment modeling
- Cost and economic analysis
- Environmental and regulatory analysis
- Renewable energy services
- Energy reduction
- Energy Financial Analysis

**MEASURES**

- Wind turbine generator

# Plymouth County Correctional Facility Plymouth, MA



**UNIQUE VALUE TO CUSTOMER**

The Commonwealth of Massachusetts (DCAM) wants to reduce its greenhouse gas emissions and promote renewable energy projects.

ADI Energy conducted technical, economic and regulatory analyses of the potential to construct a utility scale wind project. The study evaluated two different sizes of WTG at a site adjacent to the Plymouth County Correctional Facility.

The results of the feasibility study indicate that, within the scope of the study, no fatal flaws would prevent the development of a WTG project at the Plymouth County Correctional Facility.

At the projected electricity and REC values and with the net metering provisions of the Green Communities Act, the development of either WTG option appears to be equally economically attractive for the Commonwealth.

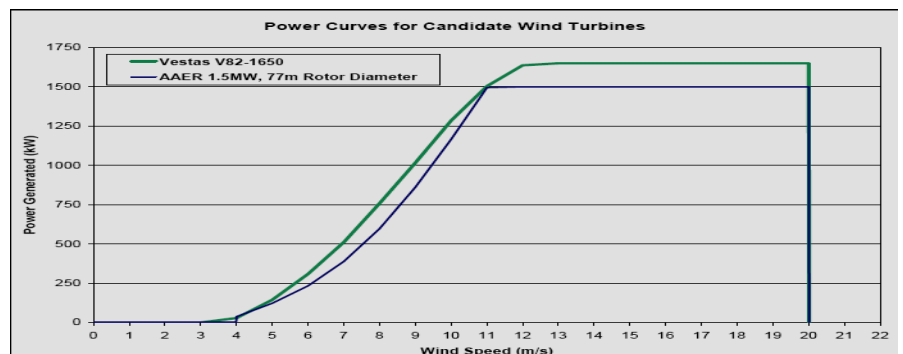


Figure 2-5 Power Curves for Candidate Wind Turbines