



# Renewable Energy Research Laboratory

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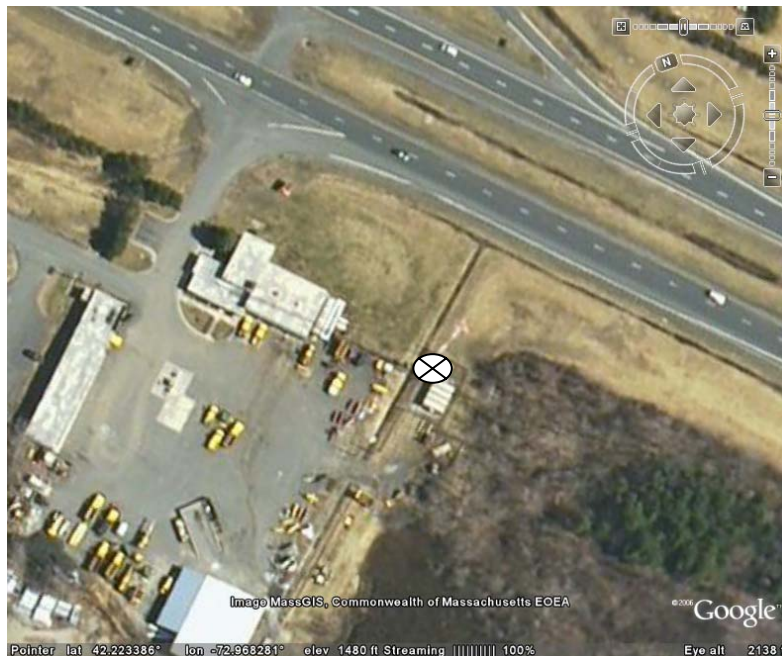
## Data Update for Blandford, MA November 2006

Prepared for  
Massachusetts Technology Collaborative  
75 North Drive, Westborough, MA 01581

By Matthew Lackner

### Monthly Data Summary for November 2006

This update summarizes the monthly data results for the Blandford monitoring site in Blandford, MA, at  $42.223^{\circ}$  N,  $72.968^{\circ}$  W (NAD 27). The site is located on the MTA tower in Blandford, MA. The picture below shows the location of the tower, with the circle and cross indicating the location of the tower base.



Two anemometers and one wind vane are mounted at 60 m (197 ft) and 40 m (131 ft). More information on the sensors and site can be found at [http://www.ceere.org/rerl/rerl\\_resourcedata.html](http://www.ceere.org/rerl/rerl_resourcedata.html).

Height	Wind Speed			Prevailing Wind Direction
	Mean [m/s]	Max [m/s]	Turbulence Intensity	
40 m	4.4	13.4	0.23	WNW
60 m	5.2	15.4	0.19	WNW

The data can be found at the Renewable Energy Research Laboratory web site:  
[http://www.ceere.org/rerl/rerl\\_resourcedata.html](http://www.ceere.org/rerl/rerl_resourcedata.html).

### Data Recovery

All raw wind data are subjected to a series of tests and filters to identify data that are faulty or corrupted. The gross percentage of data recovered (ratio of the number of raw data points received to data points expected) and net data recovered (ratio of raw data points which passed all QA control tests to data points expected) are shown below.

Gross Data Recovered [%]	100
Net Data Recovered [%]	97.2

### Maintenance Issues and Changes to Site Configuration

The following maintenance/equipment problems occurred during November 2006, and the following corrective action was taken:

### Monthly Data Time Series

Below is a graph of wind speed at Blandford for the month of November 2006, at the anemometer height of 60 m.

