



**Data Update for Mt. Tom, Holyoke, MA  
 February 2010**

Prepared for  
 Massachusetts Clean Energy Center  
 55 Summer Street, 9th Floor  
 Boston, MA 02110

By Meltem Duran

**Monthly Data Summary for February 2010**

This update summarizes the monthly data results for the Mt. Tom monitoring site in Holyoke, MA, at 42° 14' 59.2" N, 72° 38' 42.2" W (NAD27). More information on the sensors and site, including the data, can be found at [http://www.umass.edu/windenergy/resourcedata.Mt\\_Tom\\_Holyoke.php](http://www.umass.edu/windenergy/resourcedata.Mt_Tom_Holyoke.php).

Height	Wind Speed			Prevailing Wind Direction	Power Law Shear Exponent
	Mean [m/s]	Max [m/s]	Turbulence Intensity		
24.4 m	6.86	16.28	0.22	NNW	0.41
36.6 m	8.11	18.68	0.16	WNW	

**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 [%]	87.23

The gross data and net data recovery percentage is less than 100% due to a few hours of fault and out of range failures in the anemometers.

### Maintenance Issues and Changes to Site Configuration

There were no maintenance issues or changes to the site configuration during the period of this report.

### Monthly Data Time Series

Seen below is a graph of wind speed at Mt. Tom for the month of June 2010, at the anemometer height of 36.6 m.

