



Renewable Energy Research Laboratory

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Data Update for Thompson Island, Boston Harbor, MA November 2008

Prepared for
Massachusetts Technology Collaborative
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Monthly Data Summary for November 2008

This update summarizes the monthly data results for the Thompson Island monitoring site in Boston Harbor, MA, at 42° 18' 56" N, 71° 0' 40" W (NAD 83). More information on the sensors and site can be found at http://www.ceere.org/rerl/rerl_resourcedata.html.

| Height | Wind Speed | | Turbulence Intensity | Prevailing Wind Direction | Power Law Shear Exponent |
|--------|------------|-----------|----------------------|---------------------------|--------------------------|
| | Mean [m/s] | Max [m/s] | | | |
| 40 m | 5.47 | 16.32 | 0.14 | 247.50 | |
| 25 m | - | - | - | - | - |

The data can be found at the Renewable Energy Research Laboratory web site: www.ceere.org/rerl/rerl_resourcedata.html. It is important to note that summary data are only reported when the monthly net data recovery (see below) is at least 90%. This requirement ensures that the values reported here are comparable with values from other months.

Additional information about interpreting the data presented in this report can be found in the Fact Sheet, "Interpreting Your Wind Resource Data," produced by RERL and the Massachusetts Technology Collaborative (MTC). This document is found through the RERL website:

www.ceere.org/rerl/about_wind/RERL_Fact_Sheet_6_Wind_resource_interpretation.pdf.

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 [%] | 89.386 |

Maintenance Issues and Changes to Site Configuration

The following maintenance/equipment problems occurred during November 2008, and the following corrective action was taken:

- The primary anemometer at 40 meters failed on 11/16/2008 40 meter data from this point forward are based on the secondary anemometer at that height.
- No 25 meter summary is given for this month due to a large amount of icing of the sensors at that height.

Monthly Data Time Series

Seen below is a graph of wind speed at Thomson Island for the month of November 2008, at the highest anemometer height of 40 m.

