



Princeton Municipal Light District – Princeton, MA

Wind Assessment 2007

In August of 2007, EAPC Wind was engaged by Lumus Construction to provide an assessment of a wind energy project site located in Princeton, Massachusetts and owned by Princeton Municipal Light District (PMLD).

Wind turbines have existed on the site for more than 20 years and PMLD decided that it was time to replace the original four 40 kW wind turbines with two, large Furhlaender 1.5 MW wind turbines.

Lumus Construction won the contract to construct the two turbines and, upon gaining knowledge of the site terrain, engaged EAPC Wind to assess alternate locations for one of the two wind turbines.

To complete the study, EAPC Wind created a model of the site and estimated the annual energy production for five different turbine locations.

It was determined that Alternative Site 4 (shown below) was the most favorable when considering energy production, turbulence, and constructability.



Client:

Lumus Construction
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Services Rendered:

- Wind Assessment
- Wind Turbine Siting

Key Achievements:

- Identified optimal location for southern wind turbine
- Analyzed on-site time series data
- Two wind turbines ultimately constructed in Fall 2009