

WIND RESOURCE ASSESSMENT



Wind energy is becoming a vital part of our electric power grid as a sustainable, renewable and clean resource. To accurately confirm the amount and distribution of the wind energy before developing wind farm sites is a critical part of the project.

Diagnostic Engineering's experience with numerous meteorological projects enables us to provide the wind energy industry with wind assessment services at a high technical and professional level.

We offer the following:

- Installation and maintenance of wind monitoring tower(s)
- Collection of data and QA/QC
- Analysis of onsite collected data and characterization of wind resources
- Modelling of site-specific wind resources to account for sheltering of the wind sensors, terrain and vegetation cover.

The main objective of our services is to quantify the variability of wind resource over the terrain of interest. To accomplish the above we participate in preparation of the measurement plan, which will specify the following:

- Measurement parameters
- Equipment type, its quality and cost
- Number of monitoring locations
- Sensor measurement heights
- Minimum measurement durations
- Minimum measurement accuracy
- Data recovery recorded parameters and sampling intervals
- Data output format
- QA/QC
- Format of data reports
- Preparation of the budget for the project

When you entrust the whole project to us or include us as your Field Measurement Experts of your professional team, we will deliver what you need to make your project a success.