

## Wind Turbine Site Assessment Information Sheet

For Residential Wind Systems up to 100 kW

Please use the Renewable Energy Site Assessment Coupon Request form to request a wind turbine site assessment for your home. The following includes important information that you must review before you request a site assessment. After carefully reading this information sheet, complete all sections of the separate request form and send it in following the instructions on the form.

### What is a wind turbine site assessment?

Wind site assessments are designed to provide customers with site-specific information about how wind systems can help meet their energy needs. During the site assessment a certified wind energy site assessor will visit your location. The site assessor will evaluate your location, answer your questions, and summarize their findings in a written report that will include:

- A review of your goals for having a wind system
- A basic analysis of your energy needs
- An evaluation of the wind resource at your site
- Recommendations for a wind system size and siting to meet your energy goals
- Estimate of a wind systems production
- A rough cost estimate for the system
- An overview of the incentives (Focus on Energy, federal, utility) for which the system is eligible
- Preliminary economic analysis of the system
- The next steps you need to take to make your system a reality

A site assessment is not a bid nor does it provide a system design.

### How much does a site assessment cost?

Site assessment fees vary, and are determined by each individual assessor. In general a typical residential wind site assessment will cost between \$300 and \$600, but contact site assessors in your area to get specific quotes. Focus on Energy will provide a 50 percent discount on the overall cost of the assessment for qualified individuals. Please discuss costs and system expectations with your solar consultant prior to the site visit.

### What about non-residential wind site assessments?

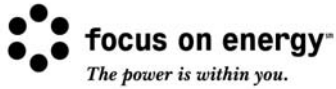
Non-residential wind site assessments are defined as those that take place at businesses, family farms, schools, non-profit organizations, government agencies, or multi-family buildings. To request a non-residential site assessment, please fill out the Non-Residential Site Assessment Request Form from the Focus on Energy Web site, and return it to the address indicated.

### Wind System Information

Before you request a site assessment you should know the following information about renewable energy systems in Wisconsin.

#### Energy Efficiency

Where energy savings for a building or facility is involved, every dollar you spend on energy efficiency will save up to three dollars on the cost of your renewable energy system. This is because the more efficient your building or facility is, the smaller the renewable energy system can be to meet your energy needs.



### **Wind System Overview**

Wind turbines perform best in naturally windy, open, high locations. To get above all obstructions tall towers may be needed. The bottom of the turbine's blades should be at least 30 feet above the highest object with 500 feet of the tower. These requirements often make siting turbines in urban and forested locations very difficult. Tower heights of 80 feet to 120 feet are typical, with the cost of the tower often exceeding the expense of the actual wind generator.

Home-sized wind turbines vary in size from about 1kW to 20kW. A wind turbine will, depending on actual wind speed, generate about 1,300 kWh per year per kW of installed turbine capacity. Small residential systems, best sized for highly energy efficient homes or cabins, may cost \$12,500 to \$32,000. Typical home-sized systems, 4kW to 20kW, start at about \$32,000 and range up to \$80,000.

Focus on Energy offers Cash-Back Rewards and Implementation grants to eligible customers that install residential wind turbines. Incentives are based on an estimate of the amount of electricity the system will produce in one year. A Cash-Back Reward (for systems up to 20 kW) may pay up to \$35,000, with a maximum reward of 25 percent of the project cost. An Implementation Grant (for systems 20 to 100 kW) has a cap of \$100,000 or 35 percent of the project cost.

### **How to apply for the Focus on Energy Wind Electric Site Assessment cost share:**

- 1) To qualify for the discount you must purchase your electricity from one of the utilities participating in the Focus on Energy Program. To view a listing of the participating utilities, visit [focusonenergy.com/utilities](http://focusonenergy.com/utilities) or call 800.762.7077.
- 2) Complete the Renewable Energy Site Assessment Coupon Request form and return it to the indicated address.
- 3) Participate in an initial telephone screening with a Focus on Energy representative to discuss your site assessment needs and to make sure you qualify for the discount.
- 4) If you qualify, a discount coupon and list of site assessors will be mailed or emailed to you.
- 5) Select a site assessor from the list and arrange your site assessment. Provide the site assessor with the discount coupon at the time of the site assessment.

***For more information or to fill out the coupon request form online, please visit:  
[focusonenergy.com/siteassessments](http://focusonenergy.com/siteassessments).***

***Note: If the site is not located in an eligible utility service territory, the site assessment is available at full cost. Contact Midwest Renewable Energy Association for more information. [www.the-mrea.org](http://www.the-mrea.org)***