

Focus on Energy
Small Wind Turbine Listing and Financial Incentive Policies
Effective July 1, 2010

Purpose

The purpose of this policy is to describe the conditions under which a given wind turbine model may be listed as prequalified for Focus on Energy financial incentive. This policy is meant to provide program confidence in energy production calculations and sustainability of projected performance, protect consumers, Wisconsin ratepayers, the long term viability of the small wind turbine industry and enable good quality installations of small turbines in Wisconsin.

Guiding Principles

The small wind turbine industry exhibits substantial opportunities to provide a larger share of Wisconsin's renewable electricity. The Small Wind Certification Council (SWCC) certification of the AWEA small wind standard will provide consumers, installers, dealers, and manufacturers with a common set of metrics and protocols to label turbines for the purpose of understanding turbine performance.. It is the goal of these policies to align with the intent of the SWCC certification. The Focus on Energy program reserves the right to change the listings or financial incentives for a given turbine model at any time.

Eligible Turbine Listing Policy

Turbines that have been qualified for Focus on Energy incentives are listed at focusonenergy.com/eligibleturbines. The basis for the current list is a historical track record of quality and performance. For a turbine to be added to the list of eligible turbines, the following conditions must be met:

- 1) The turbine model must be able to be assessed for estimated annual kWh performance per the Focus on Energy site assessment policy; AND
- 2) The turbine model must meet performance and quality standards through one of five methods:
 - a. Provide test data that complies with all aspects of the AWEA small wind turbine test standards. (http://www.awea.org/smallwind/standard/Small_Turbine_Standard_Draft_Document.pdf), OR
 - b. Provide technical information and specifications of the turbine and provide acceptable evidence to Focus on Energy demonstrating at least 12 months of reliable turbine operations at a location experiencing at least 12 mph average annual wind speeds during the operating period. Only information for the current model will be considered by Focus on Energy. Minor changes to designs will be reviewed on a case by case basis, OR
 - c. Have an established history of three or more durable installations in Wisconsin of 5 years or more. Documentation may be provided by manufacturers or installers. Past funding by Focus on Energy is not a guarantee of ongoing listing, OR
 - d. Receive SWCC labeling, OR
 - e. Provide evidence of IEC small turbine certification and data for the following IEC certification categories: IEC 61400-2, ICE 61400-11, IEC 61400-12.

Focus on Energy reserves the right to remove previously listed wind turbines from its list of qualified wind turbines. On a case by case basis, Focus on Energy will consider issues such as:

- Safety,
- Failure of a manufacturer to honor warranty claims,
- Other reasons as Focus on Energy reviews specific situations.

Financial Incentive Eligibility Policy (Eligible Wind Turbines and Provisional Wind Turbines)

A site assessment that complies with the Focus on Energy site assessment process must be completed prior to any funding application.

For turbines qualified by Focus on Energy and not considered provisional, incentives will be paid at the time of project completion, defined as when the turbine is fully operational. The customer is responsible for ensuring that the Completion Notice or Notice of Installation is received by Focus on Energy, with all required information. Focus on Energy will review the submitted Completion Notice or Notice of Installation and either request additional information or proceed with processing the payment of the incentive.

A manufacturer may wish to have a turbine become eligible for Focus funding, but cannot meet the requirements for qualifying through the standard policy (above). The following requirements will be used to determine if a wind turbine can be granted provisional status. Turbines that have been granted provisional status will be listed as Provisional Turbines at focusonenergy.com/eligibleturbines. To achieve the provisional status, the turbine must meet the following criteria, with financial incentives paid on a partial or full performance basis. These requirements are described below.

Requirements to be listed as a Provisional Turbine:

- 1) Focus on Energy will be supplied with turbine specifications related to performance, durability and safety.
- 2) Power curves will be supplied with wind speed bins not greater than 1 m/s. Power curves must be supplied without regard to confidentiality and with an understanding that power curves and turbine/tower specifications will be shared with certified site assessors and other stakeholders.
- 3) Performance, durability or safety test results to date will be supplied to Focus on Energy. Performance and durability test results will include how the test was conducted with evidence that performance, durability, or safety claims are represented in the current turbine/tower specifications.
- 4) A 5 year warranty for parts and labor, including the installation will be included with the product offered to end use customers who would receive Focus funding.
- 5) The manufacturer will be required to submit an “intent to certify” with the Small Wind Certification Council OR provide evidence that the turbine is currently being tested in accordance with IEC standards by a qualified independent testing organization.
- 6) Any and all Small Wind Certification Council documents, including test results will be made available to Focus on Energy with a formal letter releasing this information confirmed as received and understood by the Small Wind Certification Council, with notification of such receipt provided to Focus on Energy by the Small Wind Certification Council.
- 7) At least five units of the current make/model must be operating. The manufacturer must provide verifiable references for each operating unit. Units may be owned and operated by the manufacturer.

- 8) The make/model must be actively available in North America with a dealer and/or installer network, or via direct sales and/or installation by the manufacturer.
- 9) Turbine kW capacities must be between 1 kW and 100 kW at 11 m/s wind velocity per the performance specifications. Rated generator capacity may not exceed 100 kW.

Incentive Payments for Provisional Turbines

- 1) Site assessments will be conducted in accordance with the Focus on Energy Wind Site Assessment Policy prior to approving any application for funding.
- 2) Focus on Energy will offer incentive levels in accordance with incentives active at the time the application by an end use customer is approved by the program
- 3) At the point of turbine installation completion and with an operating turbine, the standard Focus on Energy Completion Notice or Notice of Completion will be submitted to Focus on Energy by the end use customer and in accordance with Focus on Energy policy.
- 4) Upon receipt and review of the Completion Notice or Notice of Completion by Focus on Energy, Focus on Energy will pay 50 percent of the incentive to the customer if the system is installed on a tower 80 feet or taller. For systems on towers less than 80 feet tall, incentives will be paid upon the receipt, review, and weather normalization of 12 months performance data.
- 5) Upon receipt of 12 months of wind turbine kWh production and consumption data, and the receipt of 12 months of anemometer data, Focus on Energy will normalize performance using weather station wind speed data and pay the remaining incentive based on the weather normalized production. For example, with a system on a tower 80 feet or higher, the final payment could be \$0 for a system that produces 50 percent or less than the estimate used to set the initial incentive. No second payment will exceed the remaining 50 percent of the original offered incentive. Systems on shorter towers will have the entire incentive paid post-weather normalization, which could range from zero percent to one hundred percent of the initial incentive offer depending on system performance.
- 6) The customer or manufacturer agrees to provide an additional 12 months of performance and wind data, for a total of 24 months of data provision to Focus on Energy.
- 7) Only 10 incentive awards may be made to customers while a turbine is in provisional status. An award may cover multiple turbines at a single location as part of a unified wind system. For multiple turbines to be considered as a single award, a single application must be made, representing those multiple turbines. Separate applications at a single facility will be considered separate awards.

It is possible that a wind turbine model has not been included in tools used by Certified Wind Site Assessors. Focus on Energy reserves the right to consider alternatives to the site assessor tools for analytical purposes. Exceptions will be made on a case by case basis.