



The [Interstate Turbine Advisory Council](#) (ITAC) is an alliance of clean energy programs and utility incentive providers working jointly to tackle the challenges and promote the potential of the small and midscale wind market.

Application to the Unified List of eligible wind turbines

A primary product of the ITAC collaboration is a unified list of small and medium wind turbines that meet the performance, reliability, acoustic and warranty service expectations of incentive providers. This creation of this list is a critical step in the evolution of the distributed wind market. This list can be used by ITAC member utilities and clean energy programs to qualify eligible wind power projects for incentives.

Small Wind Turbine ITAC Application

Note: Small wind turbine is defined as turbine with a rotor swept area of 200 m² or less and less than 100 kW. Full certification to AWEA 9.1 is now required.

You can review the ITAC listing requirements here:

<http://www.cleanenergystates.org/projects/ITAC/itac-small-wind-turbine-requirements-and-application/>

REMINDER: Any information you wish to remain confidential must be clearly marked "CONFIDENTIAL" at the top of the page.

A \$500 fee is required for the submittal of each application.

Manufacturer:

Turbine Name:

Address:

City: State: Zip code:

Website:

Name of Person submitting this application:

Address (if different from above):

City: State: Zip code:

Telephone: Email:

GENERAL

- 1) Has this turbine been eligible for state incentives before? If so, please tell us in which states the turbine was eligible.
- 2) If towers are provided by another party, provide the information about the provider, as well as details about the tower heights and types.
- 3) Is this turbine designed primarily for grid intertie or for battery charging?
 - a) Does it require battery backup or special configuration to be grid connected? YES or NO

CERTIFICATION AND TESTING

- 4) Can you provide documentation to demonstrate full certification to AWEA 9.1 for this turbine?
 - a) Who has certified your turbine?
- 5) If you have not yet achieved full certification, please answer the following.
 - a) Have you filed an intent to certify?
 - i) If so, when and with whom?
 - b) What testing have you completed to date?
 - c) Where is the turbine being tested?
 - d) When do you expect to complete testing analysis and reports?
 - e) Name and contact information to verify any certifications of the entire system currently in process, but not yet received.
- 6) Provide a detailed action plan for achieving certification. Please have the testing facility and certification body verify that the action plan is achievable.
- 7) Provide a copy of a statement to the testing facility and certification body to allow them to provide details to ITAC on the current status of the turbines progress.
- 8) Provide any third-party reports.

PERFORMANCE DATA

- 9) Technical specifications, including:
 - a) Start-up Wind Speed
 - b) Cut-in Wind Speed

- c) Rated Wind Speed
- d) Rated Power at 11 m/s
- e) Maximum Power
- f) Cut-out Wind Speed
- g) Governing Wind Speed
- h) Max. Design Wind Speed
- i) Wind Turbine Type
- j) Rotor Diameter
- k) Power Regulation
- l) Overspeed Protection
- m) Gearbox
- n) Temperature Range
- o) Generator
- p) Specified inverter (if relevant)

10) Provide a power curve* (third-party certified, if available), in tabular form, for speeds ranging from 0 m/s to 25 m/s, in 0.5 m/s increments. (*Including Rated Power at hub height wind speed of 11 m/s and Annual Energy Output at a hub height wind speed of 5 m/s. Include the assumptions used in this determination.)

MANUALS, AGREEMENTS, WARRANTIES

11) Provide copies of installation and owner's manuals.

12) Provide a copy of your dealer agreement.

- a) How many dealers do you have in the U.S.? In North America?
- b) Provide information about your dealer training.
 - i) Is training mandatory for dealers? If not, how do you ensure that installers are able to safely and correctly install and service your products?
 - ii) Do you require any continuing education?

13) Provide a copy of your marketing brochures.

- 14) Describe your warranty:
- a) How much time does it take to receive replacement parts through your warranty program?
 - b) Do faulty parts need to be returned to you for diagnostics prior to shipping out replacements?
 - c) Does your warranty cover two-way shipping costs?
 - d) When does your warranty coverage commence?
 - e) Prior to the warranty taking effect, who is responsible for the system, and how is coverage ensured?
 - f) Have you had any problems providing warranty, customer and/or installer support that have resulted in notable complaints? If so, please explain the nature of the issues, the resolution and what steps were taken to address the underlying issues.
 - g) Provide a copy of all warranties for this turbine.

OPERATION

- 15) In the past two years, have any of your installed systems of the current production model suffered a structural or catastrophic system failure? If so, please describe the event, attach any pertinent documentation relating to the failure, and describe what steps were taken to address this issue. A catastrophic or structural failure includes events such as a tower collapse, explosion, fire, blade throw, blade fracture, brake failure, etc.
- 16) Have any versions of your turbine (current production model) experienced systemic problems in the field, such as noise complaints, unexplained underperformance, or other operational difficulties? If so, please explain, and describe what steps have been taken to address these issues.
- 17) Has this turbine design ever been manufactured by a different company under a different name? If so, please explain the genealogy of the turbine design.
- 18) Describe your training program for installers.
- 19) Describe your maintenance schedule for your models.

INSTALLATIONS

- 20) How many units of the turbine have been installed in the U.S.?
- 21) How many units of the turbine have been installed in all of North America?
- 22) How many units have been installed outside of North America?

23) To the best of your knowledge, how many units are still operational?

SUBMISSION INSTURCTIONS

Please submit your application materials and any questions to Val Stori at val@cleanegroup.org.

Please mail a check for the \$500 application fee, payable to **CESA ITAC, LLC** to:

Val Stori
CESA - ITAC LLC
Clean Energy Group
50 State Street, Suite 1
Montpelier, VT 05602

We do not accept credit card payments.

Applications are accepted on a rolling basis and will be reviewed periodically. All supporting documents should contain the manufacturer's name and turbine model in the file name. The ITAC Unified List will be revised and released as additional turbines are added to the list.

(Feb. 2013)