Small Wind Energy System Ordinance

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The following agencies provided input for the development of the Small Wind Energy System Ordinance:

Focus on Energy National Renewable Energy Laboratory Public Service Commission of Wisconsin University of Wisconsin-Extension Service Wisconsin Division of Energy Wisconsin Towns Association

The following people helped develop, gave legal input as appropriate, and reviewed the Small Wind Energy System Ordinance:

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The Small Wind Energy System Ordinance was developed as a permitted use ordinance, as we were advised that this would be the more difficult ordinance to draft. The ordinance can be simply used as a conditional use permit for a small wind turbine by inserting sections into the permit:

00.05 Standards

00.06 Permit Requirements.

00.07 Abandonment.

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00.01 Title.

This ordinance may be referred to as the Small Wind Energy System Ordinance.

00.02 Authority.

This ordinance is adopted pursuant to authority granted by:

For counties: Wis. Stat. § 59.69 and 66.0401

For towns and villages: Wis. Stat. § 60.61 or 60.62 and 62.23(7), or 60.22(3) and 66.0401

00.03 Purpose.

The purpose of this ordinance is to:

- (1) Oversee the permitting of small wind energy systems
- (2) Preserve and protect public health and safety without significantly increasing the cost or decreasing the efficiency of a small wind energy system (per Wis. Stat. §. 66.0401).

00.04 Definitions.

In this ordinance:

- (1) "Administrator" means the (County or Town) of _____ Land Use Administrator or Planning and Zoning Administrator
 - (2) "Board" means the (County or Town) of _____ Board of Supervisors.
- (3) "Meteorological tower" (met tower) is defined to include the tower, base plate, anchors, guy cables and hardware, anemometers (wind speed indicators), wind direction vanes, booms to hold equipment anemometers and vanes, data logger, instrument wiring, and any telemetry devices that are used to monitor or transmit wind speed and wind flow characteristics over a period of time for either instantaneous wind information or to characterize the wind resource at a given location.
- (4) "Owner" shall mean the individual or entity that intends to own and operate the small wind energy system in accordance with this ordinance.
 - (5) "Rotor diameter" means the cross sectional dimension of the circle swept by the rotating blades.
 - (6) "Small wind energy system" means a wind energy system that
 - (a) is used to generate electricity;
 - (b) has a nameplate capacity of 100 kilowatts or less; and
 - (c) has a total height of 170 feet or less.
- (7) "Total height" means the vertical distance from ground level to the tip of a wind generator blade when the tip is at its highest point.
 - (8) "Tower" means the monopole, freestanding, or guyed structure that supports a wind generator.
- (9) "Wind energy system" means equipment that converts and then stores or transfers energy from the wind into usable forms of energy (as defined by Wis. Stat. §. 66.0403(1)(m). This equipment includes

any base, blade, foundation, generator, nacelle, rotor, tower, transformer, vane, wire, inverter, batteries or other component used in the system.

(10) "Wind generator" means blades and associated mechanical and electrical conversion components mounted on top of the tower.

00.05 Standards.

A small wind energy system shall be a permitted use in all zoning districts subject to the following requirements:

- (1) Setbacks. A wind tower for a small wind system shall be set back a distance equal to its total height from:
- (a) any public road right of way, unless written permission is granted by the governmental entity with jurisdiction over the road;
 - (b) any overhead utility lines, unless written permission is granted by the affected utility;
- (c) all property lines, unless written permission is granted from the affected land owner or neighbor.

(2) Access.

- (a) All ground mounted electrical and control equipment shall be labeled or secured to prevent unauthorized access.
- (b) The tower shall be designed and installed so as to not provide step bolts or a ladder readily accessible to the public for a minimum height of 8 feet above the ground.
- (3) Electrical Wires. All electrical wires associated with a small wind energy system, other than wires necessary to connect the wind generator to the tower wiring, the tower wiring to the disconnect junction box, and the grounding wires shall be located underground.
- (4) Lighting. A wind tower and generator shall not be artificially lighted unless such lighting is required by the Federal Aviation Administration.
- (5) Appearance, Color, and Finish. The wind generator and tower shall remain painted or finished the color or finish that was originally applied by the manufacturer, unless approved in the building permit.
- (6) Signs. All signs, other than the manufacturer's or installer's identification, appropriate warning signs, or owner identification on a wind generator, tower, building, or other structure associated with a small wind energy system visible from any public road shall be prohibited.
- (7) Code Compliance. A small wind energy system including tower shall comply with all applicable state construction and electrical codes, and the National Electrical Code.
- (8) Utility notification and interconnection. Small wind energy systems that connect to the electric utility shall comply with the Public Service Commission of Wisconsin's Rule 119, "Rules for Interconnecting Distributed Generation Facilities."
- (9) Met towers shall be permitted under the same standards, permit requirements, restoration requirements, and permit procedures as a small wind energy system.

00.06 Permit Requirements.

(1) Building Permit. A building permit shall be required for the installation of a small wind energy system.

- (2) Documents: The building permit application shall be accompanied by a plot plan which includes the following:
 - (a) Property lines and physical dimensions of the property
 - (b) Location, dimensions, and types of existing major structures on the property
 - (c) Location of the proposed wind system tower
 - (d) The right-of-way of any public road that is contiguous with the property;
 - (e) Any overhead utility lines;
 - (f) Wind system specifications, including manufacturer and model, rotor diameter, tower height, tower type (freestanding or guyed)
 - (g) Tower foundation blueprints or drawings
 - (h) Tower blueprint or drawing
- (3) Fees. The application for a building permit for a small wind energy system must be accompanied by the fee required for a building permit for a Permitted Accessory Use.
 - (4) Expiration. A permit issued pursuant to this ordinance shall expire if:
- (a) The small wind energy system is not installed and functioning within 24-months from the date the permit is issued; or,
- (b) The small wind energy system is out of service or otherwise unused for a continuous 12-month period.

00.07 Abandonment.

- (1) A small wind energy system that is out-of-service for a continuous 12-month period will be deemed to have been abandoned. The Administrator may issue a Notice of Abandonment to the owner of a small wind energy system that is deemed to have been abandoned. The Owner shall have the right to respond to the Notice of Abandonment within 30 days from Notice receipt date. The Administrator shall withdraw the Notice of Abandonment and notify the owner that the Notice has been withdrawn if the owner provides information that demonstrates the small wind energy system has not been abandoned.
- (2) If the small wind energy system is determined to be abandoned, the owner of a small wind energy system shall remove the wind generator from the tower at the Owner's sole expense within 3 months of receipt of Notice of Abandonment. If the owner fails to remove the wind generator from the tower, the Administrator may pursue a legal action to have the wind generator removed at the Owner's expense.

00.08 Building Permit Procedure.

- (1) An Owner shall submit an application to the Administrator for a building permit for a small wind energy system. The application must be on a form approved by the Administrator and must be accompanied by two copies of the plot plan identified in 00.06 (2) above.
- (2) The Administrator shall issue a permit or deny the application within one month of the date on which the application is received.
- (3) The Administrator shall issue a building permit for a small wind energy system if the application materials show that the proposed small wind energy system meets the requirements of this ordinance.
- (4) If the application is approved, the Administrator will return one signed copy of the application with the permit and retain the other copy with the application.
- (5) If the application is rejected, the Administrator will notify the applicant in writing and provide a written statement of the reason why the application was rejected. The applicant may appeal the Administrator's decision pursuant to Chapter 68 Wis. Statutes. The applicant may reapply if the deficiencies specified by the Administrator are resolved.

(6) The Owner shall conspicuously post the building permit on the premises so as to be visible to the public at all times until construction or installation of the small wind energy system is complete.

00.09 Violations.

It is unlawful for any person to construct, install, or operate a small wind energy system that is not in compliance with this ordinance or with any condition contained in a building permit issued pursuant to this ordinance. Small wind energy systems installed prior to the adoption of this ordinance are exempt.

00.10 Administration and Enforcement.

- (1) This ordinance shall be administered by the Administrator or other official as designated.
- (2) The Administrator may enter any property for which a building permit has been issued under this ordinance to conduct an inspection to determine whether the conditions stated in the permit have been met.
 - (3) The Administrator may issue orders to abate any violation of this ordinance.
 - (4) The Administrator may issue a citation for any violation of this ordinance.
 - (5) The Administrator may refer any violation of this ordinance to legal counsel for enforcement.

00.11 Penalties.

- (1) Any person who fails to comply with any provision of this ordinance or a building permit issued pursuant to this ordinance shall be subject to enforcement and penalties as stipulated in ch. ____ section ____ of the zoning code.
- (2) Nothing in this section shall be construed to prevent the (County or Town) Board from using any other lawful means to enforce this ordinance.

00.12 Severability.

The provisions of this ordinance are severable, and the invalidity of any section, subdivision, paragraph, or other part of this ordinance shall not affect the validity or effectiveness of the remainder of the ordinance.