

Bainbridge Township Berrien County, Michigan



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Bill Hodge, Supervisor
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LARGE WIND ENERGY CONVERSION SYSTEM PERMIT Article XXV

Applications for Large Wind Energy Conversion System Permit shall be submitted through the Zoning Administrator to Planning Commission accompanied by a \$250.00 filing fee. Checks should be payable to “Bainbridge Township”.

Include the following:

1. Application.
2. Site Plan in conformance with Article XI (11) including:
 1. Elevation of proposed wind energy conversion system.
 2. Contours with appropriate intervals for site elevation.
 3. Location and dimension of all existing structures within 300 feet of system.
 4. Height of any structures or trees of 35 feet within 500 feet radius of wind energy conversion system.
 5. Surrounding land uses and structures, irrespective of height within 500 feet of wind energy conversion system.
3. Copy of current paid tax bill, deed or other proof of ownership, which includes a legal description of the property, property tax number and proof of taxes paid of said property.
4. Statement of Compliance.
5. Request for the Public Hearing.
6. Registered engineer’s drawing of structural components and safety of tower to withstand 85 mph winds and no potential damage would exist if turbine were to fail.

8. Feasibility study from a qualified individual.
9. Certification from qualified individual that rotor and over speed control have been designed for proposed use and site.

Applicant should attend the Planning Commission meeting and Public Hearing to answer any questions that may arise. If a special meeting of Planning Commission is requested, a charge of \$500.00 is required to defray Township expenses.

**APPLICATION FOR LARGE WIND ENERGY
CONVERSION SYSTEM PERMIT**

Applicant Name: _____

(Address) (City) (State) (Zip)

Home Phone #: _____ Work/Mobile Phone #: _____

Tax Code Number: 11-01- _____ - _____ - _____ - _____ Zone District: _____

Describe WECS requested including evidence that there is substantial need for proposed system:

Describe noise and vibration at the property line:

Describe any construction that would be necessary:

Describe potential impact on wildlife, including native and migrating birds and glare impacts of adjacent properties:

Describe aesthetic impacts on adjoining properties:

Describe equipment and or materials to be used for proposed use including color and surface treatment of supporting structures:

Describe ability to adequately provide for the service and facility under consideration:

Describe additional public services needed for proposed use:

Describe FAA warning light requirements, if any:

Is the proposed WECS able to satisfy the following limitations:

1. Setbacks. Large WECS shall maintain a minimum setback of two (2) times the total height of the tower and blade height from any property line.
2. Large WECS shall maintain a minimum setback of at least five (5) times the tower height and blade from the right-of-way line of any public road or highway.
3. In all cases the large WECS shall maintain a minimum distance of at least one and one-fourth (1.25) times the tower and blade height from any habitable structure.
4. Dimensions. A large WECS shall be located on a parcel at least two and one-half (2-1/2) acres in size.
5. A large WECS shall not exceed a total tower and blade height of one hundred fifty (150) feet unless the parcel on which the large WECS is to be located is ten (10) acres or larger, in which case the maximum total tower and blade height may be two hundred (200) feet.
6. In all cases the minimum height of the lowest position of the large WECS blade shall be at least thirty (30) feet above the ground.

7. Safety Measures. Each large WECS shall be equipped with both manual and automatic controls to limit the rotational speed of the rotor blade so it does not exceed the design limits of the rotor.
8. Each large WECS shall be properly grounded to safely sustain natural lightning strikes in conformance with the National Electrical Code.
9. Any large WECS facility shall be equipped with anti-climbing devices. Tower climbing apparatus shall not be located within twelve (12) feet of the ground. A locked, protective fence at least six (6) feet high shall enclose a tower capable of being climbed.
10. The large WECS shall be warranted against any systems failures reasonably expected in severe weather operation conditions as a condition of approval.
11. Large WECS shall include no sign or advertising of any kind, except for one sign, not to exceed two (2) square feet posted at the base of the tower, and said sign shall contain the following information:
 - a. "Warning: high voltage"
 - b. Manufacturer's name
 - c. Operator's name
 - d. Emergency phone number
 - e. Emergency shutdown procedures

Persons to Contact for:

Engineering: Name: _____ Address: _____ Phone: _____

Maintenance: Name: _____ Address: _____ Phone: _____

Until a permit has been granted pursuant to the Special Land Use Permit, there shall be no construction or excavation of said land nor shall use of the land be made toward the intended purposes of such Special Land Use Permit.

Signed: _____ Date: _____

STATEMENT OF COMPLIANCE

1. I represent that the enclosed application will comply with the following General Standards:
 - a. The special land use shall be designed, constructed, operated and maintained in a manner harmonious with the character of adjacent property and the surrounding area.
 - b. The special land use shall not inappropriately change the essential character of the surrounding area.
 - c. The special land use shall not interfere with the general enjoyment of adjacent property.
 - d. The special land use shall represent an improvement to the use or character of the property under consideration and the surrounding area in general, yet also be in keeping with the natural environment of the site.
 - e. The special land use shall not be hazardous to adjacent property, or involve uses, activities, materials or equipment which will be detrimental to the health, safety, or welfare of persons or property through the excessive production of traffic, noise, smoke, odor, fumes or glare.
 - f. The special land use shall be adequately served by essential public facilities and services, or it shall be demonstrated that the person responsible for the proposed special land use shall be able to continually provide adequately for the services and facilities deemed essential to the special use under consideration.
 - g. The special land use shall not place demands on public services and facilities in excess of available capacity.
 - h. The special land use shall be consistent with the intent and purpose of this Ordinance, and the objectives of any currently adopted Bainbridge Township Development Plan.

Signature of Applicant: _____ / Date: _____

**PUBLIC HEARING REQUEST FOR
WIND ENERGY CONVERSION SYSTEM PERMIT**

11-01- _____ - _____ - _____ - _____
Property Tax Code Number

I hereby request a public hearing for the purpose of securing a Wind Energy Conversion System Permit for property described by the property tax code number shown above.

The address of this property is:

(Address) (City) (State) (Zip)

The requested Wind Energy Conversion System Permit is for the following purpose:

I enclose application, site plan, proof of ownership and legal description of the property, proof of paid taxes, a list of names and addresses of the owners of property within 300 feet of the property covered by this application, and a statement of compliance.

(Name of applicant)

(Street and Number)

(City) (State) (Zip)

_____/_____
(Signature) (Date)

ARTICLE XI

Site Plan and Scaled Drawing Requirements

Section 11.01 - Intent

- A. The intent of requiring site plan or scaled drawing submittal and review in certain instances specified herein is to facilitate determination of whether certain development proposals meet all applicable requirements and are in harmony with the purpose, intent and spirit of this Ordinance.
- B. It is further the intent to assist township officials in encouraging and assisting proposers of land development to design and implement land use proposals which foster orderly, efficient, compatible and aesthetic uses of land in Bainbridge Township.

Section 11.02 - When Required

- A. Variance or Special Land Use – Except for Single-Family, Two-Family: A site plan shall be prepared and submitted in accordance with Sections 11.03 A. and 11.04 with any application for:
 - 1. Variance or Special Land Use Permit, other than for a Special Land Use Permit for a Home Occupation;
 - 2. With any application for Rezoning, other than Rezoning for the sole purpose of constructing a single-family, two-family or agricultural permitted principal use;
 - 3. With any application for a Zoning Compliance Permit or Building Permit, other than for the sole purpose of constructing a single-family, two-family or agricultural permitted principal use or accessory use thereto; and
 - 4. With any application for a Planned Unit Development or Condominium.
- B. Rezoning – Single-Family, Two-Family: A scaled drawing shall be prepared for the sole purpose of constructing a single-family, two-family or agricultural permitted principal use or accessory use thereto and submitted in accordance with Sections 11.03 B. and 11.04 with any application for:
 - 1. Rezoning;
 - 2. Zoning Compliance Permit;
 - 3. Building Permit; or
 - 4. Variance.

Section 11.03 - Contents

- A. A required site plan shall be drawn at a scale of one (1) inch equals one hundred (100) feet and shall contain the following information:
1. The boundary lines of the area included in the site plan, including angles, dimensions and reference to a section corner, quarter corner or point on a recorded plat, an arrow pointing north, and the individual lot areas and dimensions of the land included in the site plan.
 2. Existing and proposed topography, drainage systems, and structures, with topographic contour intervals of not more than two (2) feet.
 3. The shape, size and location of all structures on the lot including yard dimensions, height, floor area and ground coverage ratios and the finished ground and basement floor grades.
 4. Natural features such as wood lots, trees of more than one (1) foot in diameter, streams and lakes or ponds, and man-made features such as existing roads and structures, with indication as to which features are to be retained and which removed or altered. Adjacent properties and their uses shall be identified.
 5. Proposed streets, driveways, parking spaces, curb cuts, loading spaces and sidewalks, with indication of direction of travel for one-way streets and drives and the inside radius of all curves. The width of streets, driveways and sidewalks, and the total number and layout of parking spaces shall be shown.
 6. The size and location of all existing and proposed public and private utilities and required landscaping.
 7. A vicinity sketch showing location of the site in relation to the surrounding street system.
 8. A legal description of the land and lots included in the site plan.
 9. Any other information necessary to establish compliance with this and any other ordinances.
 10. The availability of adequate utility capacity.
 11. The name, signature, title and mailing address of the person who prepared the site plan. A site plan for any development shall be prepared by a registered architect, engineer, professional community planner or land surveyor.
- B. A required scaled drawing shall be drawn at a scale appropriate to the dimensions of development and shall contain the following information:
1. A legal description of the land involved.
 2. A vicinity sketch showing location of the site in relation to the surrounding street system.

3. The size and location of all structures proposed for and presently located on the site.
4. The boundary lines of the parcel of land involved including dimensions and an arrow pointing north.
5. Proposed streets and driveways. The width of streets and driveways shall be shown.
6. Any other information necessary to establish compliance with this and any other ordinances.
7. The name, signature and mailing address of the person who prepared the scaled drawing.

Section 11.04 - Review Process and Approval

- A. Any required site plan or scaled drawing shall be submitted, of original quality, to the Zoning Administrator along with a cover letter signed by the owner of the land and/or prospective developer providing a general explanation and background information on the proposed development.
- B. The Zoning Administrator shall examine the site plan or scaled drawing as to proper form and content and particularly as to compliance with all applicable requirements of this Ordinance.
- C. If the proposed development does not require the issuance of a Special Land Use Permit by the Planning Commission, Variance by the Board of Appeals or a Rezoning of land by the Township Board, within thirty (30) days after receipt the Zoning Administrator shall notify in writing the proposer of the development of the approval or disapproval of the site plan or scaled drawing. If the site plan or scaled drawing is disapproved, the reasons therefore shall be given. Such disapproval shall be limited to inadequacy or defect in form or content and/or noncompliance with identified applicable provisions of this Ordinance. The Zoning Administrator may, at his discretion, request consultation with the Planning Commission prior to his approval or disapproval of the site plan.
- D. If the proposed development requires issuance of a Special Land Use Permit, the Zoning Administrator shall transmit his findings as described in paragraph C. above, to the Planning Commission along with a copy of the site plan and covering letter. The proposer of the development shall be notified of the status of his requested site plan approval.
- E. If the proposed development requires a rezoning of land, the Zoning Administrator shall transmit his findings as described in paragraph C., above, to the Township Board which shall follow the amendment procedure as provided in Article XV (15). The site plan or scaled drawing and cover letter shall accompany the Zoning Administrator's findings. The proposer of the development shall be notified of the status of his requested site plan or scaled drawing for approval.

- F. If the proposed development requires a Variance, the Zoning Administrator shall transmit his findings as described in paragraph C., above, to the Board of Appeals which shall follow the Variance procedure as provided in Article XIII (13). The site plan or scaled drawing and cover letter shall accompany the Zoning Administrator's findings. The proposer of the development shall be notified of the status of his requested site plan or scaled drawing for approval.
- G. The decision rejecting, approving, or conditionally approving a site plan shall be based upon the requirements contained in Section 11.03, A. The decision rejecting, approving or conditionally approving a scaled drawing shall be based upon the requirements contained in Section 11.03, B.
- H. A site plan or scaled drawing shall be approved if it contains the information required by this Ordinance and is in compliance with this Ordinance and the conditions imposed thereunder, other applicable Township, County, State or Federal laws, rules or regulations.
- I. The site plan or scale drawing as approved shall become part of the record of approval, and subsequent actions relating to the activity authorized shall be consistent with the approved site plan or scaled drawing, unless a change conforming to this Ordinance receives the mutual agreement of the landowner and approving body.
- J. Upon approval of a site plan, the secretary of the approving body shall, within five (5) days, file with the Zoning Administrator a copy of the approved site plan or scaled drawing.