

Our Ref.:  
GT.7627-11/08

Korsze, 19.01.2009

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The present decision, failing an appeal within the term provided for, has become final and enforceable

17.02.2009

date

signature

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INSPECTOR

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Maria Szkolnik

## **DECISION on environmental conditions of consent for project execution**

By virtue of art. 46 sec. 1 it. . 1, art. 46 a sec. 1 and 7 it. 4 and art. 56 sec. 1, 2, 3, 7 and 8 of the Environmental Protection Law of April 27, 2001 /i.e. Journal of Laws No. 25, it. 150 of 2008 as amended/, following consideration of application of „PRESTIGE" LLC Przedsiębiorstwo Innowacyjno-Wdrożeniowe, ul. Nieszawska 63, 87-720 Ciechocinek

### **I consent**

to execution of a project consisting in construction of a wind power plant farm of total power of 80 MW along with a 110 kV transforming station and a subscriber line, situated in the territory of the Korsze commune in the following precincts:

#### **1. Type and location of project execution:**

Installation of wind turbine generators with total power of 80 MW and construction of a 110/30 kV transforming station along with necessary infrastructure in the territory of the Korsze commune in the following precincts:

- precinct Wandajny lots no. 5/2, 12/5
- precinct Kraskowo lots no. 224/6, 127
- precinct Olszynka lots no. 2/1, 2/2, 51/24, 55/3, 56/2
- precinct Podlechy lots no. 101/2
- precinct Błogoszewo lots no. 84/4, 112/1, 186, 187
- precinct Gudniki lots no. 120/3, 128/10, 130/1
- precinct Chmielnik lots no. 6/2, 12
- precinct Dubliny lots no. 1/5, 2/26
- precinct Łankiejmy lot no. 25/10
- precinct Trzeciaki lots no. 21/5, 47/3, 49/4

The wind power plant complex will be comprised of individual wind power plants of power of up to 2.5 MW, built of metal, tubular towers of total weight of about 240 tons. The towers will be installed with nacelles holding rotors with a diameter of 90 m.

The towers will have the following parameters:

- VESTAS type or other make of similar parameters
- rotor diameter - 90 m
- number of blades - 3
- max. power - up to 2.5 MW

- max. acoustic power - 107 dB
- max. tower height - 105 m
- max. height with rotor:  $h = 150$  m
- rotor speed up to 20 rpm,
- reinforced concrete foundation,
- foundation level individual for each tower, following from effected research and calculations,
- automatic operation,

Each power plant will be generating alternating current of voltage 690 V and frequency 50/60 Hz. The electric power generated by the wind power plants will be sent via a proprietary 110/MV KV transforming station and a 110 KV subscriber line to the 110 KV line running across the planned area and an existing switching station (GPZ). The power plants will be operating without a permanent crew. They require no water supply or sewage drainage.

**2. Conditions of terrain use in the execution and operation phase with particular consideration of the need for protection of valuable natural values, natural resources and monuments, as well as limitation of onerousness for neighboring areas:**

- a. During work connected with project execution, the removed, unpolluted humus layer should be reused naturally.
- b. Work in proximity of trees should be carried out manually,
- c. Structure foundations (deep excavations) should be adapted to hydro-geological conditions and other features of the ground substrate,
- d. A location for storage of excavated earth and the manner of its utilization should be designed,
- e. Following launch of the wind power plant, carry out measurements of noise intensity during day and night time, in the direction of the nearest residential development, and forward the results to the City Office in Korsze.
- f. During farm operation, work should be organized in a fashion causing least onerousness for the acoustic climate,
- g. A schedule should be developed of inspections and maintenance of equipment comprising the wind power plant and any irregularities in operation of the wind turbine generators should be removed on a current basis,
- h. The transforming station should be secured as to prevent contamination of the ground-water environment with transformer oil,
- i. Wind turbine generators should be situated on the terrain in such way as to minimize bird collisions during spring and autumn passages,
- j. The distance of the wind power plant from the nearest residential development and architectural monuments should not be less than 400 m.
- k. The turbine towers should be equipped with blinking warning lights compliant with aviation guidelines,
- l. The wind power plant color scheme should be in harmony with the surrounding landscape and reduce the risk of collision with passing birds,
  - nacelle and rotor - light gray or white as mandatory color,
  - rotor tips - bright blade tips (e.g. yellow-red or yellow-black),
  - tower in base section (up to the horizon line, about 1/3 tower height) in background colors (shades of green of equal saturation with toning down upwards to nacelle color, or everything in nacelle color

- external premises of transformers and other electrical elements - gray, brown or green.
- m. A uniform power plant color scheme should be applied across the wind farm,
- n. Location of wind power plants is prohibited only in local ecological corridors and view exposure protection zones mentioned in the report and indicated in attachment No. 1 to the present paper.

**3. Requirements concerning environmental protection to be accounted for in the construction design:**

- a. The planned investment project should be designed in a manner set forth in legal regulations and in compliance with principles of technical knowledge, ensuring respect for justified third party interests occurring within the range of influence of the project,
- b. Mechanical equipment of the power plant, which will be a source of noise during operation (including the generator, transmission), should be acoustically insulated with the use of sound absorbing materials,
- c. The investment project should be designed and executed ensuring compliance with requirements concerning respect for justified third party interests occurring within the area of influence of the facility,
- d. The design should adopt technology and technical equipment friendly for the environment, i.e. eliminating or limiting influence of the structure on the natural environment, human health and other structures, in compliance with valid regulations,
- e. Optimum ecological and technological solutions should be implemented, mitigating adverse effects of power plant operation (e.g. noise, landscape),
- f. Technical solutions should not depart from the standards applied in facilities connected with this type of activity in Poland and European Union countries and should be based on state-of-the-art technologies,
- g. The turbine towers, to prevent attraction of insects and consequently bats, should be equipped with blinking warning lights compliant with aviation guidelines.

**4. Requirements in the scope of mitigation of industrial failure effects regarding projects considered as facilities posing a threat of serious malfunctions:**

not specified, the project is not considered to carry an increased or high risk of a serious industrial malfunction; the owner, investor of the installations should comply with requirements of organizational units authorized for approval of technical documentation.

**5. Requirements in the scope of limitation of cross-border environmental impact with respect to projects subject to proceedings concerning cross-border environmental impact;**

not required in the matter question, no proceedings concerning cross-border environmental impact have been conducted.

**6. Requirements in case of finding of a need for setting up a limited usage area;**

No need has been found for setting up a limited usage area.

**7. At the same time I impose a duty of:**

- conduct of design and investment work in compliance with valid legal regulations
- conduct within 5 years of issue of building permit, at own expense, of monitoring of environmental impact of the project, with particular account for migrating animals. The scope of this monitoring needs to be agreed with a nature conservation authority. The work must be carried out by a person competent in the scope of nature conservation, possessing knowledge enabling performance of such actions.

- finding and implementing ecological and technical solutions mitigating adverse effects of power plant operation.

### Reasons

„PRESTIGE" LLC in Ciechocinek on 12.06.2008 applied to the Mayor of Korsze for issue of decisions on environmental conditions for a project consisting in construction of a wind power plant farm of total power of 80 MW along with a 110 kV transforming station and a subscriber line, situated in the territory of the Korsze commune. Having sought an opinion of the Kętrzyn Starosta and the Powiat Sanitary Inspector in Kętrzyn, by decision of 24.07.2008 of the Mayor of Korsze an obligation was imposed of drafting of an environmental impact report. The proceedings were conducted with participation of the community (in compliance with art. 32 of the law of April 27, 2001 Environmental Protection Act). For this purpose, the Mayor of Korsze posted an announcement on the Office website and on bulletin boards in the territory of the town and commune of Korsze. No comments, request or reservations were received from the community. Environmental conditions of execution of the a/m project were agreed with the Kętrzyn Starosta (decision No. WR 7633-39/08 of 05.12.2008) and with the State Sanitary Inspector in Kętrzyn (decision No. ZNS-4316-36/2008 of 16.12.2008). On 21.01.2009, information on issue of the decision in question will be posted on the website of the City Office in Korsze.

In connection with the above, it was proper to decide as herein.

A statement of characteristics of the project constitutes attachment No. 1 to the present decision.

The present decision may be appealed by the party to the Local Government College of Appeals in Olsztyn through the agency of the Mayor of Korsze within 14 days of receipt thereof.

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Roman Rosicki, eng.

Manager of Land Development Section

CC:

1. as per mailing list
2. „PRESTIGE" LLC. Przedsiębiorstwo Innowacyjno-Wdrożeniowe  
ul. Nieszawska 63, 87-720 Ciechocinek
3. „TOPOZ" Przedsiębiorstwo Gospodarki Gruntami  
ul. Kopernika 17/4, 10-512 Olsztyn
4. a/a

## CHARACTERISTICS OF THE PROJECT

The envisaged wind power plant farm along with technical infrastructure elements necessary for proper project operation is planned for execution in the territory of the Korsze commune, Kętrzyn powiat, on the lots mentioned in the decision.

The planned location of the wind power plant farm covers areas of intensive agriculture, where no other type of economy is present. The project location terrain is currently comprised of arable land.

The wind power plant farm to be erected in the Korsze commune will be comprised of 40 power plants with power of up to 2.5 MW each, of the following parameters:

- VESTAS type or other make of similar parameters
- rotor diameter - 90 m
- number of blades - 3
- max. power - up to 2.5 MW
- max. acoustic power - 107 dB
- max. tower height - 105 m
- max. height with rotor:  $h = 150$  m
- rotor speed up to 20 rpm,
- reinforced concrete foundation,
- foundation level individual for each tower, following from effected research and calculations,
- automatic operation,

Each power plant will be generating alternating current of voltage 690 V and frequency 50/60 Hz. The electric power generated by the wind power plants will be sent via a proprietary 110/MV KV transforming station and a 110 KV subscriber line to the 110 KV line running across the planned area and an existing switching station (GPZ). The power plants will be operating without a permanent crew. They require no water supply or sewage drainage.

Cut-out of the power plants will occur at wind speed  $v = 25$  m/s. The towers structure will be prefabricated tubular steel with height of up to 105 m. The power plant will be equipped with thunderstorm protection. Wind orientation is automatic.

Reinforced concrete slab foundation with bell. The foundation bell will anchor the steel base element. The electric power generated by the wind power plants will be sent via a 110/MV KV transforming station to the 110 kV line running across the planned area. The transforming station will be situated in the Korsze commune and will be common for power plants located in 6 Areas.

### The road network will be comprised of:

- main roads - width up to 6 m.
- access roads to wind towers - up to 4.5 m.

Maneuvering yards will be situated in direct vicinity of the windmills, to enable placement of cranes during assembly and turning of transport units.

Roads may be of road slabs or aggregate fill. For the entire road network, laying of separating geofabric is provided for between the native subsoil and the fill.

The power plants will be operating without a permanent crew. They require no water supply or sewage drainage.

A direct, long-term impact of the planned wind power plants on the environment will be noise generated during their operation. Such impacts will also include changes of local landscape by introduction of new spatial elements, and emission of low intensity magnetic fields. Operation of the wind power plant park will not cause transgression of admissible standards of the parameters specified in the report.

With respect to the general population of birds occurring in the analyzed area, as well those wintering or passing, i.e. the so-called avifauna, no contraindications are found for location of the wind power plant park at the discussed place. A project situated a minimum of 5 km from the limits of the designed wind power plant park will have no adverse effect on the NATURA 2000. Warmińskie Bociany area. For harmonization of landscape values of the discussed area, rotors of each power plant should be turning in the same direction.

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Roman Rosicki, eng.

Manager of Land Development Section