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## ENVIRONMENTAL IMPACT REPORT

regarding a project consisting in the construction of a wind generator park in the municipality of Korsze including technical infrastructure elements necessary for the correct functioning of the project

Procedure phase: decision on the environmental conditions of the project implementation approval

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## XIX. SUMMARY IN NON-SPECIALIST LANGUAGE

The planned wind generator park including technical infrastructure elements necessary for the correct functioning of the project is planned to be erected in the municipality of Korsze, the powiat of Kętrzyn, in the area of the following plots: (Appendix No. 4 The list of plots and areas covered by the environmental impact report, Appendix No. 5 The list of plots and areas covered by the location of the towers and the Transformer/Switching Station).

The planned location of the wind generator park includes the areas of intensive agriculture, where no other type of economy occurs. This location encompasses six Regions situated south of Korsze. The project location area is now used as cultivated fields.

The planned WIND GENERATOR PARK IN THE MUNICIPALITY OF KORSZE will consist of 40 wind generators of the power of 2.0 MW each, of the following specification:

- type - VESTAS V. 80.2 MW or other supplier of similar parameters
- propeller diameter - 90 m
- number of blades - 3
- max. power - 2.0 MW
- max. tower height - 100 m
- max. height with propeller - 150 m
- rotor speed - 9-19 RPM (average 14 RPM)
- reinforced concrete foundations. - circular type of diameter from 19 to 25 m
- foundation level - approx. 2.2 m below the ground level (it will be defined individually for each generator depending on the local soil conditions)
- automatic operation

Each of the wind generators will generate alternating current at a voltage of 690 V and frequency of 50/60 Hz.

The wind generator will switch off at a wind speed  $v = 25$  m/s. The towers will be of a pipe-steel-prefabricated structure of a height of up to 100 m.

The wind generator will be equipped with lightning protectors. The generator will be automatically wind-oriented.

The reinforced concrete slab foundation will have a bell. A steel base element will be anchored in the foundation bell.

The electric energy produced by the wind generators will be transmitted via a 110 kV (medium voltage) transformer station to the 110 kV line running through the planned region.

The transformer station will be located in the municipality of Korsze and will be common for the wind generators situated in the above-mentioned 6 Regions.

The road system will consist of:

- main roads – up to 6 m wide;
- access roads to the wind towers – up to 4.5 m wide.

Manoeuvring yards will be situated in the closest vicinity of the wind generators. The yards will be used by a crane during the assembly works and by trucks for turning back.

The roads may be made of road slabs or all-in aggregate. Separation nonwoven geotextiles will be laid for the whole road system over the interface of the native subsoil and the embankment.

The wind generators will operate unattended. The generators require no water supply or waste water discharge.

The direct, long-term impact of the planned wind generators on the environment will be the noise generated during the operation thereof. In addition, the impact will include changes of the local landscape through the introduction of new spatial elements and the emission of low intensity electromagnetic fields.

**The wind generator park operation will not result in exceeding the allowable standard levels for the above-specified parameters.**

Concerning the whole of the birds living in the analyzed area, as well as the wintering or flying-by birds, i.e. the avifauna, no contraindications have been found as to the wind generator park location in the discussed area. The project will have no negative impact on the NATURA 2000 Storks of Warmia area, situated at least 5 km from the planned wind generator park borders.

In order to harmonize the landscape values of the discussed area, the rotor of each of the wind generators should rotate in the same direction.

It would be advisable to keep a register of the observed instances of potential bird collisions with the wind generator masts or rotors. In the autumn period (August, September), a search for potential victims (birds, bats) should be performed in a random manner.

*- The completed analysis of the environmental impact of the projected wind generator park in the municipality of Korsze allows us to draw a conclusion that the compliance with the conditions included in this report on the environmental impact and in the developed construction engineering will have such a result that the project will not be oppressive to the natural environment.*