

The purposes of the application for the issuance of the permit to erect artificial islands (Pszw)

Investor's purpose



obtaining Pszw

Administrative body's purpose

- To assess whether the given project may be executed and exploited in the given area
- To assess whether the execution of the given project will enable the optimal use of marine resources
- To verify the feasibility of the project
- To specify the conditions for the execution and exploitation of the project

The application should:

be complete in terms of **formal matters**

Be complete in terms of substantial matters

Be based on the best available knowledge

Contain verifiable data

Present the data in a intelligible way

Formal completeness 1

Art. 27a par. 1 of Uom defines the content of the application:

- name, registered office and address of the applicant,
- detailed specification of the project requiring the permit and the purpose of the project, including:
 - * the proposed location specified with the geographic coordinates applied on the maritime map, which indicate the body of water intended for the execution and exploitation of the project;
 - the area of the body of water intended for the execution and exploitation of the project and the period necessary for the execution and exploitation of the project;
 - * specific technical parameters and the value of the planned project, including the stages and the schedule of the execution of the project, methods of transmitting energy to the shore;
 - assessment of the economic, social and environmental impacts of the project.

Formal completeness 2

- To the application for the issuance of the Pszw the following items should be attached:
 - > copy of the company's entry into the National Court Register;
 - > the description of the technology of the planned project;
 - information regarding the environment within the scope of the impact of the planned project;
 - description of potential environmental impacts of the planned project and the impacts on the natural living and mineral resources, and the assessment of those impacts;
 - the description of the means mitigating the harmful impact of the planned project on the marine environment,

Formal completeness 2

- To the application for the issuance of the Pszw the following items should be attached:
 - the description of accepted assumptions and applied methods of forecasting and sea environment used data, with the indication of problems arising when collecting the necessary information,
 - draft of the monitoring programme, including environmental monitoring and investment and exploitation process management monitoring;
 - description of environmental elements, which are protected under the Act of April 16, 2004 on the Nature Conservation, which are within the area of the impact of the planned project.

- borders and area of the body of water -
- When indicating the borders of the proposed body of water, the geographical coordinates of points of the outer borders should be given on the maritime map.
- The geographical coordinates of individual elements of the OWF do not have to be indicated.
- The borders of the concerned body of water should encompass the entire area necessary for the preparation, execution and exploitation of the OWF, including the potential buffer zones around the outer wind turbines.

- specific technical parameters -

The essential technical parameters of an OWF are:

- the maximum number of wind turbines,
- the minimum and maximum planned capacity and produced energy,
- Maximum height and size of the construction,
- Preferred settlement method (and types of foundations).

Technical parameters should include the considered variants.

- estimated value of the project -

The **estimation of the value of the project** should cover:

indication of the reference value for the installation of **1 MW**

(e.g. EUR 2,8 million for the project 20/20), on the basis of reliable and verifiable data sources;

- estimated value of the project -

The **estimation of the value of the project** should cover:

determination of **indicators**, which affect the changes in the costs of the planned project, in relation to the reference data, e.g. distance from shore, depth, type of turbines used;

- estimated value of the project -

The **estimation of the value of the project** should cover:

the estimation of the value of the project, including the costs of particular stages and parts of the project, depending on the external factors, e.g. variable depth and distance from shore in particular fragments of the selected location.

- stages and schedule -

- If the project is to be executed in **more than 1 stage**, it should be indicated in the application.
- If there are more stages, the proportions of each stage should be indicated, (e.g. stage I 50 MW or 250 MW, II stage 150 MW or 750 MW).
- The anticipated periods of preparation and execution of the stages and the whether the stages will be covered by a joint environmental and construction permits.
- It is also recommended to indicate the considered location variants for particular stages.

- transmission of the product to the shore -
- Pszw for the OWF should not cover the execution of the external connection infrastructure, as this is a separate project, executed offshore and onshore, which requires separate permits.
- The considered alternative cable onshore output points and connection points.
- The connection variants should be indicated:
 - for the National Power System,
 - for foreign power systems,
 - For international power systems.

- assessment of the economic, social and environmental effects -

This elements serves the assessment of potential hazards to:

- the environment and its resources;
- the interest of the national economy;
- the defence and security of the state;
- the safety of marine shipping;
- o the safety of marine fisheries;
- o the safety of air traffic;
- the submarine archaeological heritage or
- the safety associated with the research, recognition and exploitation of mineral resources of the seabed and the interior of the earth underneath.

regulating particular issues (about 13 acts and 13 ordinances/regulations).

- assessment of economic effects -

This element of the application should help with the assessment of the impact of the project on the performance of economic goals, such as:

- reduction of CO₂,
- share of energy from RES in the national energy balance,
- impact on the labour market, development of industry associated with the investment.

It should also enable the analyses in accordance with the principles of conducting the Regulatory Impacts Assessment (Ocena Skutków Regulacji "OSR"), which verifies:

- impacts on the public finances sector;
- impact on the labour market;
- impact on the competitiveness of the economy and companies;
- impact on the situation and development of particular regions.

- assessment of social effects -

This part of the application should enable the **assessment of the impact of the project on other users of the maritime areas**, so that it will be possible to determine the impacts on:

- the defence and security of the state;
- the safety of marine shipping;
- the safety of marine fisheries;
- the safety of airplane flights;
- the submarine archaeological heritage, the safety associated with the research, recognition and exploitation of mineral resources of the seabed.

- assessment of environmental effects -
- This element of the application, together with the attachments to the application, should enable the assessment whether the project creates any hazards to the safety of the environment and maritime resources.
- The assessment is not the EIA within the meaning of the EIA Directive and the Habitats Directive, therefore the "precautionary principles" does not apply.
- The assessment of the OWF impact is obligatory and should be conducted before obtaining the construction permit.

- assessment of environmental effects -
- Crucial for the environmental impact assessment are the attachments to the application, which describe the types of impacts, the environment within the area of potential impacts, mitigating measures, description of environmental components under protection.
- ElA covers:
 - Assessment of impacts of the considered location and technological variants,
 - Assessment of the accumulated impacts,
 - Preliminary assessment of the impact on integrity, coherency and subject of protection over the Natura 2000 areas (screening).

Attachments

Formal completeness

To the application for the issuance of the permit to erect artificial islands (Pszw) the following items should be attached:

- copy of the company's entry into the National Court Register;
- the description of the technology of the planned project;
- information regarding the environment within the scope of the impact of the planned project;
- description of potential environmental impacts of the planned project and the impacts on the natural living and mineral resources, and the assessment of those impacts;

Attachments

Formal completeness

- the description of the means mitigating the harmful impact of the planned project on the marine environment,
- the description of accepted assumptions and applied methods of forecasting and sea environment used data, with the indication of problems arising when collecting the necessary information,
- draft of the monitoring programme, including environmental monitoring and investment and exploitation process management monitoring;
- description of environmental elements, which are protected under the Act of April 16, 2004 on the Nature Conservation, which are within the area of the impact of the planned project.

Attachment 2 The description of the technology Formal completeness

- Serves the assessment of the of the project, its efficiency, the scale of its impacts and the its value.
- It should characterize the basic technological parameters of the individual elements of the OWF and the execution processes.
- It should be consistent with the description of project management methods, the proposed monitoring and the preliminary EIA, which should be described in detail in the attachments to the application.

Attachment 3 The description of the environment Substantial completeness

- Serves the assessment of the scale of potential hazards and impacts of the OWF on the environment.
- It should be based on the available, reliable and verifiable scientific data.
- It should contain the description of:
 - biotic components: benthos, ichthyofauna, avifauna, marine mammals, bats,
 - abiotic components: hydrological and hydrochemical conditions, geological structure, mineral resources, chemical composition of sediments.

Attachment 4 Description of impacts 1 Substantial completeness

 The scale of all anticipated impacts at the stage of preparation, execution, exploitation and decommissioning of the OWF should be indicated and initially assessed.

- The OWF impacts may cover:
 - ✓ production of waste,
 - production of waste water,
 - ✓ emission of noise,
 - emission of radiation and electromagnetic fields,

- ✓ air pollution,
- ✓ landscape impact,
- impacts resulting from the construction of new elements, fixed permanently to the seabed,

Attachment 5 Mitigating means Substantial completeness

- If the negative impacts of the wind farm cannot be prevented, then
 at the stage of project preparation it may be necessary to implement
 the means to mitigate those impacts or means to countervail those
 impacts at the stages of execution and exploitation.
- Such means may cover:
 - the application of technologies which have less impact (other types of foundations, lower or higher towers),
 - the increase or decrease of the range of the farm,
 - distances between the turbines,
 - The schedule of works should be adjusted to the phenological cycles of the animals, which exist within the area of the OWF.

Attachment 6 The description of methodologies Substantial completeness

This attachment should contain 3 types of information:

- description of assumptions made in the application for the issuance of the Pszw,
- description of applied forecasting methods,
- description of sources of data
 on marine environment used in the application.

Potential difficulties should be listed, which occurred during the process of collecting data for the application for the issuance of the Pszw.

Attachment 7 Monitoring project Substantial completeness

This attachment should contain 2 types of information:

- 1. **Monitoring proposals** for the stages before and after the execution of the project, necessary for the assessment and verification of the OWF impact on particular components of the environment and on other methods of using the marine areas (m.in. birds, marine mammals, fish, marine traffic, frequency of fishing).
- 2. **The basic principles of managing** the preparation, construction, exploitation and decommissioning (liquidation) processes, including the risk management in case of emergencies, supervision methods and monitoring methods for the execution, exploitation and maintenance processes, etc.

Attachment 8 Description of the protected environmental elements Substantial completeness

- Due to the lack of the requirement to conduct the environmental research before obtaining the Pszw, those protected components of the environment should be indicated, which existence in the area of the OWF impacts is known from the literature.
- The location of the body of water should be specified in terms of protected areas. It should also be stated, which of those areas could be affected by the planned project.

Attachment 8 Description of the protected environmental elements Substantial completeness

- The subject of protection (species, habitats) on these areas should be indicated and described.
- The range of the OWF impact area may be very wide. It may cover
 the areas several dozen kilometres away from the wind farm,
 especially when the impacts on birds or mammals (which can
 protected due to the Natura 2000 areas) are being inspected.