

Environmental Examination Report

(1) Project Name

Luchterduinen Offshore Wind Farm

(2) Project Site

23km off the coast of Noordwijk, Kingdom of the Netherlands

(3) Project Outline

Construction and operation of offshore wind power plant

(4) Category Classification

A

(5) Reasons for Classification

- The project belongs to sensitive sector (Transmission, Transformation and Distribution of Electricity).
- It is located in or near sensitive areas under the Guidelines.
- It is the project for which JBIC's share is above 5% of the total project costs and the amount of the JBIC loan is above 10 million SDR.
- The environmental impact of the project is not negligible and can potentially worsen.

(6) Environmental Permits and Approvals

ESIA Report for the project was approved by Ministry of Infrastructure and the Environment on December 18, 2009 and an additional authorization was received on November 20, 2012 due to the change of the specification of the project and changes to the law in the Netherlands.

(7) Pollution Mitigation Measures

Planned values of water quality and waste are properly managed in accordance with local standards.

(8) Natural Environment

< Offshore >

A sanctuary for birds is located 20km away from the project site. Protected species are found near the project site, but the number of these animals is

limited. In addition, some kinds of marine birds live on and migrate to the project area. However, bird strike has an insignificant effect on the project because most of their habitats are spread over a wide area and they tend to fly near the shoreline,

< Onshore >

Onshore cable goes through areas which are designated as an important ecosystem. Within and outside these areas, protected species are found but impact mitigation plan will be implemented.

(9) Social Environment

It is confirmed that there will be no relocation of residents in the project site and measures for social considerations are properly managed.

(1 0) International Standard

IFC Performance Standard

(1 1) Others, Monitoring

Monitoring will be conducted to ensure compliance with conditions of the ESIA and the status of (i) the application required by the national land utility plan, (ii) the application for construction of onshore cable based on the regulation for cultural heritage and (iii) the environmental monitoring plan.

Questions

Q1. Please provide the address of the project site.

Address of the project site: block Q10 in the North Sea, about 23 km off the coast at Noordwijk

Q2. Please provide brief explanation of the project.

Construction and operation of an offshore wind farm

Q3. Will JBIC loan be applied to a new project or an executing project? In case of an executing project, please inform of strong claims by stakeholders such as local residents, as well as improvement guidance or cessation orders for construction work / operations, from environmental authorities.

- | | |
|---|--|
| <input checked="" type="checkbox"/> New Project | <input type="checkbox"/> Executing Project (with Claim etc.) |
| <input type="checkbox"/> Executing Project (without Claim etc.) | <input type="checkbox"/> Others (Please specify) |

Q4. In case of this project, is it necessary to execute Environmental Impact Assessment (EIA) based on the laws or regulations of the country where the project is to be implemented? If necessary, please inform the progress of EIA.

- | | |
|--|---|
| <input checked="" type="checkbox"/> Required (completed) | <input type="checkbox"/> Required (under execution or under planning) |
| <input type="checkbox"/> Not Required | <input type="checkbox"/> Others (Please specify) |

Q5. In case that EIA is already completed, please inform whether EIA report is already approved based on the environmental assessment system of the country where the project is to be implemented or not. If EIA report is already approved, please provide the date and name of authorities of the approval.

- | | |
|--|---|
| <input checked="" type="checkbox"/> Approved (without condition) | <input type="checkbox"/> Approved (conditional) |
| <input type="checkbox"/> Under approval process | <input type="checkbox"/> Others (Please specify) |

Date of Approval : Wbr Permit - WSV 2009-1229 (18 December, 2009); Water Act permit - WSV/2012-1325 (20 November, 2012)

Name of Authorities : Rijkswaterstaat, dienst Noordzee on behalf of Secretary of State for Traffic and Public Works/ Minister of Infrastructure and Environment

Q6. If environmental permit(s) other than EIA is required, please provide the name of required permit(s). Have you obtained required permit(s)?

- | | |
|--|---|
| <input checked="" type="checkbox"/> Obtained | <input type="checkbox"/> Required, but not obtained yet |
| <input type="checkbox"/> Not required | <input type="checkbox"/> Others (Please specify) |

Name(s) of required permit(s) : Flora and Fauna act exemptions (One for onshore cable and one for exploitation of the wind farm. These have been obtained.)

Q7. Will the loan be used for the undertaking that cannot specify the project at this stage (e.g. export or lease of machinery that has no relation with specific project, or Two Step Loan that cannot specify the project at the time of loan agreement)?

(No)

If you answered "Yes", it is not necessary to reply to the following questions.
If you answered "No", please reply to the following questions.

Q8. Are there any environmentally sensitive area shown below in and around project site?

(Yes)

If you answered "Yes", please select applicable items by marking, and reply to following questions.
If you answered "No", please reply to questions 9 and after.

- (1) National parks, protected areas designated by government (coastal areas, wetlands, habitats of minorities or indigenous populations, heritage sites, etc.)
- (2) Primeval forests, tropical natural forests
- (3) Ecologically important habitats (coral reefs, mangrove, tidal flats, etc.)
- (4) Habitats of endangered species of which protection is required under local laws and international agreements.
- (5) Areas that have risks of large scale increase in soil salinity or soil erosion
- (6) Desertification areas
- (7) Areas with special values from archaeological, historical and/or cultural viewpoints
- (8) Habitats of minorities, indigenous populations, nomadic people with traditional life style, or areas with special social value

Q9. Does the project involve following characteristics?

(No)

If you answered "Yes", please describe the scale of applicable characteristics, and reply to the questions 10 and after.

If you answered "No", please reply to questions 11 and after.

- (1) Involuntary resettlement (Number of resettlers: _____)
- (2) Pumping of groundwater (Scale: _____ m³/year)
- (3) Land reclamation, development and/or clearing (Scale: _____ ha)
- (4) Deforestation (Scale: _____ ha)

Q10. Under the environmental impact assessment system of the country where the project is to be implemented, do the applicable characteristics from (1) – (4) above and their scale serve as basis for executing an EIA for the project?

- They do They do not
 Others (Please specify _____)

Q11. Will JBIC share in the project be equal or less than 5% of the total project cost, or the total amount of JBIC loan equal or less than SDR 10 million? (In the case of additional support for a past project, this shall be the accumulated total amount)

(No)

If you answered "Yes", it is not necessary to reply to the following questions.
If you answered "No", please reply to questions 12 and after.

Q12. Does the project belong to either of the sectors that impact on the environment is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansory renovation project, acquisition of rights and interests without additional capital investment)?

(No)

If you answered "Yes", it is not necessary to reply to following questions.
If you answered "No", please reply to the questions 13 and after.

Q13. Does the project belong to the following sectors?

(Yes)

If you answered "Yes", please specify the sector by marking, and reply to questions 14 and after.
If you answered "No", it is not necessary to reply to the following questions.

- (1) Mining
- (2) Oil and natural gas development
- (3) Pipelines
- (4) Iron and steel (projects that include large furnaces)
- (5) Non-ferrous metals smelting and refining
- (6) Petrochemicals (manufacture of raw materials; including complexes)
- (7) Petroleum refining
- (8) Oil, gas and chemical terminals
- (9) Paper and pulp
- (10) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
- (11) Thermal power
- (12) Nuclear power
- (13) Hydropower, dams and reservoirs
- (14) Power transmission and distribution lines involving submarine electrical cables
- (15) Roads, railways and bridges
- (16) Airports
- (17) Ports and harbors
- (18) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their vicinity
- (19) Waste management and disposal
- (20) Agriculture involving large-scale land-clearing or irrigation
- (21) Forestry
- (22) Tourism (construction of hotels, etc.)

Q14. Please provide information on the scale of the project (project area, area of plants and buildings, production capacity, amounts of power generation, etc.) Further, please explain whether an execution of EIA is required on account of the large scale of the project in the country where the project is implemented.

The project is situated about 23 km off the coast of the central North Sea coastal zone of the Netherlands, close to Noordwijk. Total gross capacity of the project is 129 MW, consisting of 43 turbines of 3 MW capacity, an Offshore High Voltage station and offshore (23km / 150kV) and onshore cables(8km / 150kV). The execution of EIA and exemptions of the Flora and Fauna Act were required for this project.