

## **Non-Technical Summary of the Project**

The activity subject to the Project Presentation File (PTD) is Revised Kızılcaerzi Wind Power Plant (RES) Project envisaged to be performed by OSRES Elektrik Üretim A.Ş. within Tekirdağ Province, Şarköy District, Yeniköy Locality. It is envisaged to perform revisions without altering the border of power plant area in turbine locations under the permits obtained in line with Environmental Impact Assessment (EIA) Regulation at various times previously with this project.

An application has been initially filed for 9 turbines, each of which is in 3 MW power within the scope of Kızılcaerzi RES Project and "EIA Not-Required" decision was given with the decision dated 11/01/2010 and no. 2010/(01)-03 by Tekirdag Provincial Directorate of Environment and Forestry for Kızılcaerzi RES Project (Repealed) in total 27 MW installed power. (See Annex-3 (a)).

When an application was filed to Energy Market Regulatory Authority (EMRA) by OSRES Elektrik Üretim A.Ş. in 2012 for obtaining generation license, Kızılcaerzi Wind Energy Power Plant in 12 MW power was entitled to be connected to Malkara TM Medium Voltage bus bar as a result of competition held by TEİAŞ. As a result of this development, investor firm resorted to make a decrease in total installed power capacity and a new Project Presentation File was prepared and submitted to Tekirdağ Environmental and Urbanization Provincial Directorate and "EIA Not-Required" decision was taken with the date 09/03/2012 and no. 2012/(03)-26. (See Annex-3 (b)).

Following this decision, an application was filed by OSRES Elektrik Üretim A.Ş. for making a revision in respect with placement of 9 turbines within power plant area without altering power plant area coordinates and bringing up installed power of Kızılcaerzi RES Project to 14 MWe for the purpose of enhancing turbine efficiency. Provided that the revision within the scope of the project covers an increase of 2,4 MWe and turbine locations with the letter dated 11/09/2012 and no. 15211 by the Ministry of Environment and Urbanization, Environmental Impact Assessment General Directorate in relation to the application in question and there is no alteration in project power plant area, it has been decided that there is no requirement for enforcing the provisions of EIA Regulation since it is below the limit values within the scope of EIA Regulation effectuated by being published in the Official Gazette dated 17/07/2008 and no. 26939 (Amended: the Official Gazette dated 30/06/2011 and no. 27980). (See Annex-3 (c)).

Finally, it has been decided to make an alteration in 9 turbine locations licensed without any change in power plant area coordinates for the purpose of ensuring cutting fewer trees by using existing forest roads in transportation to the turbines in the area where the project is envisaged to be fulfilled by the investor firm. An application has been filed by OSRES Elektrik Üretim A.Ş. to the Ministry of Environment and Urbanization in relation to this issue and the said revision has been requested to be assessed within the scope of EIA Regulation.

It has been reported that it has been understood that 9 turbine locations have been changed without altering power plant area coordinates within the scope of the project with the letter dated 20/03/2014 and no. 4187 issued by the Ministry of Environment and Urbanization and thus, it has been stated that the project is included within the scope of Article-48, Annex-2 List, "Environmental Impact Assessment Regulation" effectuated by being published in the Official Gazette dated 03/10/2013 and no. 28787 and it has been prescribed that a "Project Presentation File" should be prepared in regard to the issue. (See Annex-3(d)).

As a result, Project Presentation File of Revised Kızılcaerzi Wind Energy Power Plant Project (14,4 MWm / 12 MWe) has been prepared in line with the letter of the Ministry of Environment and Urbanization dated 20/03/2014 and no. 4187.

It is not likely to make any alteration in the power plant area licensed earlier within the scope of the project. Through the project, it is recommended to make a change in turbine locations without altering installed power of 9 turbines located within the power plant area.

Wind turbines to be used are the systems that can firstly convert kinetic energy in the wind to mechanical energy and then into electrical energy. A wind turbine generally consists of a tower, generator, speed converters (gear box), electrical and electronic components and propeller. Kinetic energy of wind is converted into mechanical energy in rotor. By accelerating rotary motion of propeller shaft, this is transferred to generator in the hub. Electrical energy to be obtained from generator shall be stored by means of accumulators or is directly delivered to recipients.

It is envisaged that activities of construction period within the scope of the project are to be completed within 6 months and electrical energy is to be generated throughout license period of 49 years. The said 49 years generation period may be extended in case of renewal of required permits with maintenance and renewals to be made in the power plant.

It is contemplated that it shall be worked 10 hours a day during construction phase of the project.

2.000 m<sup>2</sup> (40 m \* 50 m) area shall be used for each turbine within the scope of the project. The areas to be used within the scope of the project are treasury lands in nature of forestry quality.

Construction activities to be executed within the scope of the project are envisaged to be completed by working 10 hours a day. It is planned that 45 persons shall be employed during construction phase and 8 persons shall be employed during operation period.

All waste-liquid wastes likely to occur from construction-operation periods of the project shall be disposed of within the framework of an agreement to be concluded with Şarköy Municipality.

Ecosystem Assessment Report, Landscape Restoration Plan, Fauna Report and Ornithology Reports have been prepared by specialist academicians at various times relating to the project. In the said reports, it has been stated that the activity envisaged to be carried out in the project site has no adverse impact and all considerations laid down in relevant reports shall be adhered to in all phases of the project.

Measures to be adopted against environmental impacts and respective calculations and modelling studies within the scope of the project have been in detailed scrutinized in relevant parts.