REPORT

Pazarköy Wind Power Plant

Non-Technical Summary for the Pazarköy WWP Project

Submitted to:

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1.0 INTRODUCTION

1.1 About Pazarköy WPP Project

Fina Enerji Holding A.Ş. (“Fina”) is in the process of purchasing Pazarköy Wind Power Plant (“WPP”) Project (the “Project”) which is planned to be established and operated in Yenice District of Çanakkale Province and Balya District of Balıkesir Province.

The installed power of the Pazarköy WPP Project has been designed as 45.6 MWm/44 MWe with 12 turbines of 3.8 MW each. The design puts the foreseen energy generation output of the Project as 154.000.000 kWh/year. It is planned that the energy to be generated is connected to the Balıkesir 2 TM-Çan TM Energy Transmission Line (ETL) with 3 km 154 kV high voltage ETL.

The standard “41-month Electric Power Generation License” for the Project (License No. ÖN/6573-13/03591, dated 03.11.2016 and amended on 13.06.2019) has been issued by Energy Market Regulatory Authority (“EMRA”) for the Pazarköy WPP Project.

1.2 About Fina

Fina Enerji has been established by Fina Holding in 2007 to involve in development, generation and trading of renewable energy and continues its activities with 450 employees of all subsidiaries. Fina Enerji currently has 9 wind farms of 336 MW and 5 solar power plants of 25 MW under operation. 9 wind power plants with a capacity of 350 MW are in the pipeline. Fina Enerji which is one of the most important companies of Fina Holding contributes to the country’s economy through generation of energy from renewable resources. Fina Enerji is currently in the process of making investments in WPP Projects where Pazarköy WPP Project is one these potential projects.

1.3 The Goal of this Document

This document is a non-technical summary (NTS) of the planned and already conducted Environmental and Social Impact Assessment studies for the Project in a non-technical language, together with the mitigation measures proposed by Fina for the management of the Project environmental and social issues.

1.4 Previous Environmental and Social Studies Conducted for the Project

- **Environmental Impact Assessment (EIA) Report**: The Project was initially designed with 14 turbines with the total installed capacity of 44 MWm. Following the opinions received from 14th Regional Directorate of Highways regarding the distance of T3 and T4 turbines to the Kınalı-Tekirdağ-Çanakkale-Savaştepe Highway, the Project was revised. Within the scope of the revised Project, total number of turbines was decreased from 14 to 12 with the revised locations and the total installed capacity was kept same as 45.6 MWm/44 MWe. EIA Not Required Decision was obtained for the revised Project on 19th of June 2018.
- **Flora and Fauna Studies:** Ornithological and ecological field studies were conducted at Pazarköy WPP Project in May 2013. Within the scope of the EIA studies, field studies were conducted in autumn 2017 and January 2018 were conducted to identify the floral and faunistic components, the risks and the protection status.
- **Early engagement meetings** are planned to be held by Fina aiming the contribution of local stakeholders during the project implementation. A Stakeholder Engagement Plan has been developed for this purpose.

1.5 Ongoing Studies

- Air quality measurements (PM10, SO2&NO2) and noise quality measurements at sensitive locations/receptors to determine the current air quality condition in the project area have been initiated.

- Conducting bat survey and bird survey studies.
- Considering the Project's location and the distance of the turbines to the nearest settlement (Daralan village with 1 km distance to T5), a visual impact assessment and shadow flicker assessment studies have been planned to conduct for the project.
- Additional biodiversity baseline studies have been initiated.

1.6 Standards to be applied in the Project

Fina commits to adhere to the provisions of Turkish Legislation applicable to the Project during the life time of the Project. These requirements include (but are not limited to) the Environment Law, Occupational Health and Safety Law, Labour Law and their issued regulations. The Project will comply with the applicable World Bank ("WB") Environmental and Social Standards ("ESSs") which are more stringent than national legislation and standards.

2.0 THE PROJECT

2.1 The Purpose of the Project

Wind energy is one of the important sources of clean energy production while playing an important role in fighting global warming. Turkey has an increasing demand in energy and the use of clean, non-dependent, endless renewable energy has become more important for Turkey in order to meet the demands. The wind potential of Turkey is very valuable as the usage of wind as an energy resource has increased since 2005.

In this content, the aim of the Pazarköy WPP Project is to install a wind farm which will provide clean energy in a sustainable and cost-effective way and therefore contribute to the regional and national benefits.

The environmental permits obtained for the Pazarköy WPP Project are listed in table below.

Table 1 Project Environmental Permitting

Project EIA Permitting	Issue Date
41-month Electric Power Generation License valid from 03.11.2016 (License No. ÖN/6573-13/03591) has been issued by Energy Market Regulatory Authority ("EMRA") for the Pazarköy WPP Project.	03.11.2016 and amended on 13.06.2019
EIA Not Required Decision for the Pazarköy WPP with the total installed capacity of 45.6 MWm/44 MWe with 12 turbines [12 x 3.8 MWm / (11 x 3.67 MWe +1 x 3.63 MWe)].	19.06.2018
EIA Not Required Decision for the 154 kV Energy Transmission Line to transmit the generated energy to Balıkesir 2 TM-Çan TM Energy Transmission Line (ETL) with 3 km 154 kV high voltage ETL in accordance with the single line diagram	01.11.2018

2.2 Renewable Energy Generation Capacity of the Project

Fina is planning to operate Pazarköy WPP with the total installed capacity of 45.6 MWm/44 MWe with 12 turbines [12 x 3.8 MWm / (11 x 3.67 MWe +1 x 3.63 MWe)]. The design puts the foreseen energy generation output of the Project as 154.000.000 kWh/year.

2.3 Project Description (Including Associated Facilities)

The technology used in the Project will provide the wind turbines to convert the kinetic energy into mechanical energy which is then converted into electricity by a generator. The installed power of the Pazarköy WPP Project has been designed as 45.6 MWm/44 MWe with twelve turbines functioning at 3.8 MW each. Associated facilities of the Project that are included in the Area of Influence are comprised of the following:

- The Wind Turbines
- Access Road
- Energy Transmission Line (not yet finalized)
- Switchyard
- Mobilization/construction camps
- Transformer Stations

2.4 Project Location

The turbines of Pazarköy WPP Project are located in Yenice District of Çanakkale Province and Balya District of Balıkesir Province.

The nearest settlements to the Pazarköy WPP Project are Daralan village with 1 km distance to T5 and Karamustafalar village with 1.5 km distance to T12. Other nearby settlements around the Project site are Çalova, Doğanlar, Havutbaşı, Hacıyusuflar, Yaylacık, Yeniköy, Suutçu, Boynanlar, Koruköy, Pazarköy, Çınarköy and Dereköy. The ETL route has not yet been finalized which is awaited to obtain forest permits.

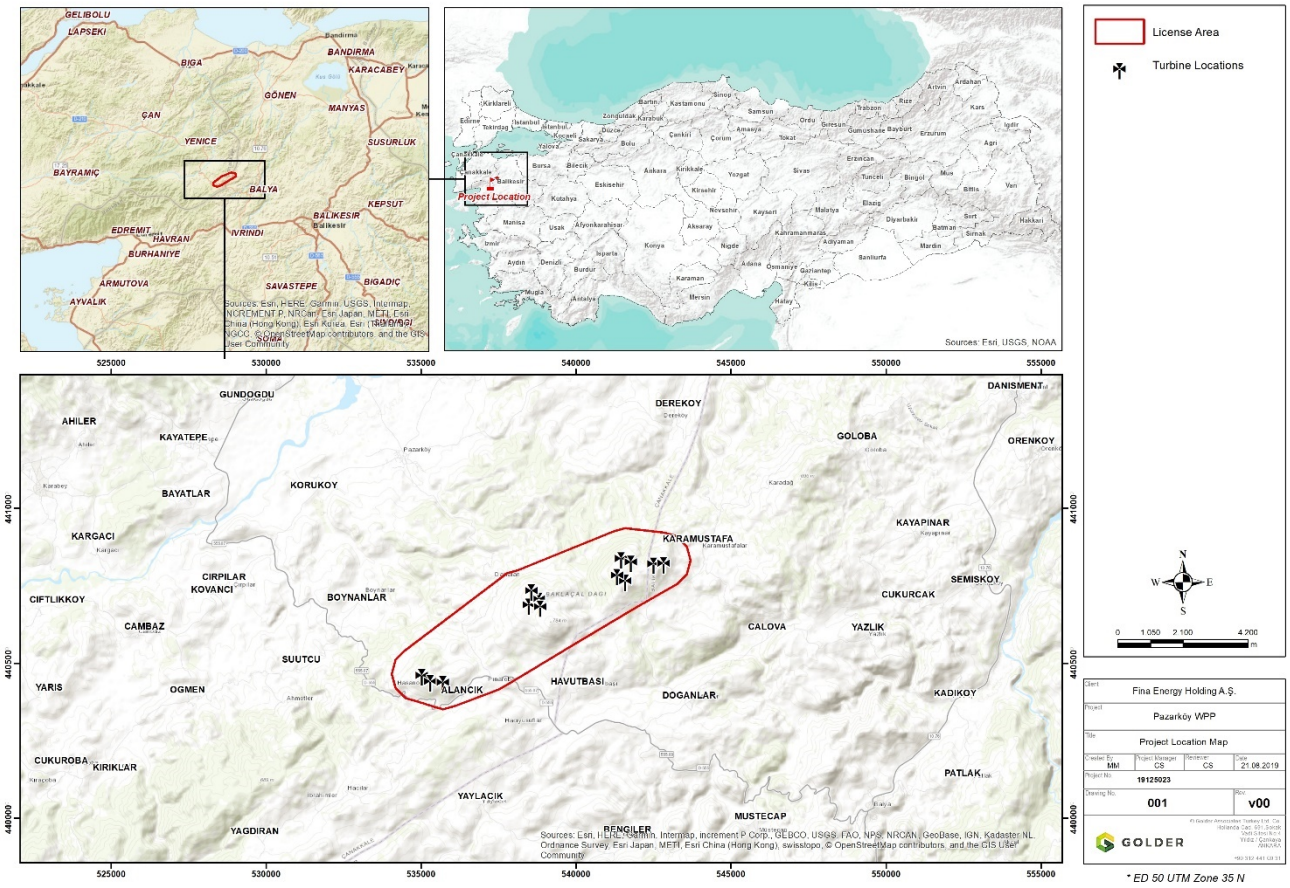


Figure 1 Pazarköy WPP Project Site Location Map

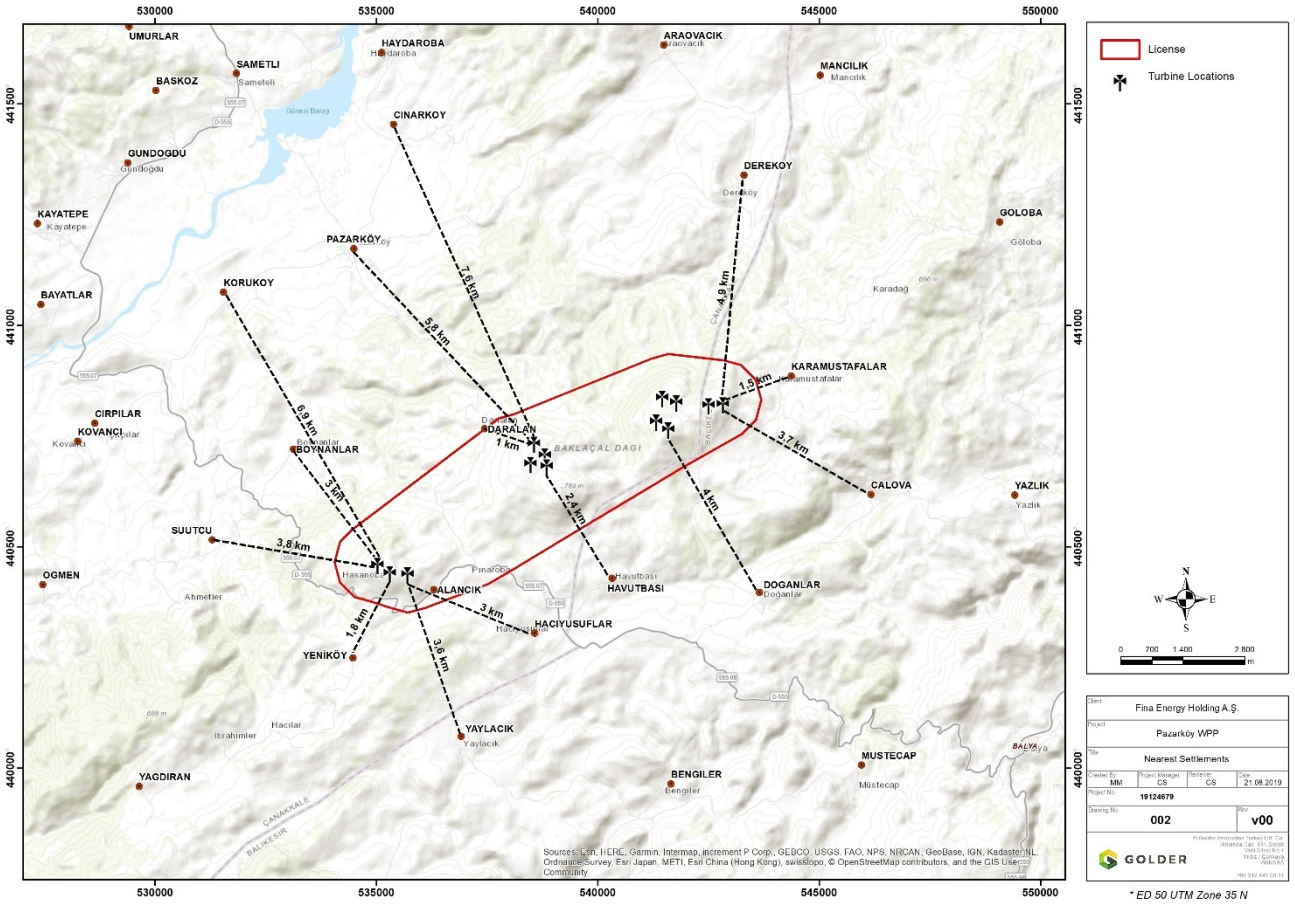


Figure 2 Pazarköy WPP Turbine Locations and the Nearest Settlements

2.5 Land Acquisition and Required Permissions for the Project

Regarding project land requirements, the area is expected to be belonging to the Forestry. However, if any private plots are spotted; the strategy of the Owner is to rent these premises from Forest Administration (Ministry of Agriculture and Forestry) within the license duration and run expropriation process for private plots.

2.6 Project Schedule

The detailed Project schedule is presented (foreseen) in Table 2.

Table 2 Project Schedule-Summary

TASK	START DATE	FINISH DATE
Basic Design	October 2019	November 2019
Detailed Engineering	October 2019	November 2019
Procurement	November 2019	January 2020
Land Clearing	December 2019	June 2020
Construction	January 2020	August 2020
Turbine Montage	July 2020	October 2020
Commissioning	September 2020	November 2020

TASK	START DATE	FINISH DATE
Basic Design	October 2019	November 2019
Detailed Engineering	October 2019	November 2019
Operation	October 2020	…

2.7 Personnel Plan of the Project

Total number of personnel planned to employ 100 at peak including subcontractors for the construction period of the Project. The number of planned personnel for the operation period is 16. Project will prioritize the local applicants during the recruitment project.

3.0 MANAGEMENT OF ENVIRONMENTAL AND SOCIAL ISSUES

For the management of environmental and social issues, following mitigation measures will be implemented in the construction and operation phases of the Project.

Table 3 Summary of Project Management Strategy for Construction Phase

Component	Potential Impact	Mitigation Measures
Air Quality	■ PM10-PM2.5 resulted from construction activities and transportation ■ SO2, NOx, resulted from construction activities and transportation	■ Periodic maintenance of construction equipment ■ Dust suppression by street-sprinkler ■ Implementation of relevant Management Plan/Procedures (Traffic Management Plan, Training, etc.) ■ Conducting air quality measurements (PM_{10}, SO_2&NO_2) before construction, at the peak time of the construction and at the end of the construction period.
Noise	■ Resulted from construction activities, construction of roads and transportation	■ Periodic maintenance of construction equipment ■ Implementation of relevant Management Plan/Procedures (Traffic Management Plan, Training, etc.) ■ Conducting noise measurements before construction, at the peak time of the construction and at the end of the construction period.
Water usage	■ The water to be used in construction and operation phase will be supplied by tankers from the nearest settlement.	■ Necessary correspondences to be obtained to supply water.
Wastewater	■ Domestic wastewater will be formed in the project due to worker's water usage.	■ Septic tank will be used to collect the wastewaters. Wastewater that accumulates in the septic tank will be collected by the municipality or service providers authorized by municipality.
Biodiversity	■ Impacts on flora and fauna components by land disturbance	■ The general mitigation measures (such as, land minimization of land disturbance

Component	Potential Impact	Mitigation Measures
	■ Dust and noise impacts (given above)	where possible, etc.) are defined in the PDF. ■ Bird and bat survey studies have been initiated. ■ The specific mitigation measures will be defined in the light of the findings of additional field studies and existing assessment reports.
Cultural Heritage	■ The Project area does not fall into an archaeological site.	■ Implementation of Chance Find Procedure
Social - Economical and Land Use	■ Positive impacts are expected both for local procurement and local employment. ■ Impacts on livelihood resources may be resulted by construction activities	■ Prioritizing the local procurement and employment.
Community Health and Safety	■ Increased traffic load and potential risks ■ Unauthorized site access ■ Potential communication problems of community members with workers. ■ Dust and noise impacts (given above)	■ Implementation of relevant Management Plan/Procedures (Community H&S Management Plan, Traffic Management Plan, Training, etc.) ■ Implementation of Grievance Mechanism Procedure
Occupational Health & Safety	■ Occupational health and safety risks will mainly include activities of working at height and lifting operations.	■ Implementation of Occupational H&S Policy/Plan/Procedures/Instructions, Emergency Response Plan, Traffic Management Plan ■ Training and supervision ■ Emergency drills ■ Accident/Incident Reporting and investigations ■ Suggestion/Complaints reporting ■ Regular site inspections

Table 4 Summary of Project Management Strategy for Operation Phase

Component	Potential Impact	Mitigation Measures
Noise	■ No impact is expected based on the noise modelling results for operational activities	NA
Biodiversity	■ Impacts on fauna components (Birds and bats)	■ The general mitigation measures (such as, land minimization of land disturbance where possible, etc.) are defined in Ornithological Ecological Assessment Report and Bird Monitoring Report.

Component	Potential Impact	Mitigation Measures
Cultural Heritage	■ The Project area does not fall into an archaeological site.	■ Implementation of Chance Find Procedure
Social - Economical and Land Use	■ Positive impacts are expected both for local procurement and local employment.	■ Prioritizing the local procurement and employment
Visual Impact	■ Visual impacts associated with wind energy projects typically concern the installed and operational turbines themselves.	■ The closest settlement is approximately 1 km from the nearest turbine location. A visual impact assessment studies have been planned
Shadow Flicker and Blade/Ice Throw Assessment	■ Shadow flicker may become an impact when potentially sensitive receptors are located nearby.	■ The closest settlement is approximately 1 km from the nearest turbine location. Shadow flicker assessment studies have been planned for the Project. ■ The setback distance calculated for the blade/ice throw assessment is met in the Project.
Community Health and Safety	■ A failure of a rotor blade can result in throwing. ■ Unauthorized access to turbines ■ Shadow Flicker and Blade/Ice Throw Impact (explained above).	■ Regular maintenance of the turbines.
Occupational Health & Safety	■ During operation the impacts will likely be limited to the maintenance of the turbines.	■ Implementation of Occupational H&S Policy/Plan/Procedures/Instructions, Emergency Response Plan, Traffic Management Plan ■ Training and supervision ■ Emergency drills ■ Accident/Incident Reporting and investigations ■ Suggestion/Complaints reporting ■ Regular site inspections

4.0 STAKEHOLDER ENGAGEMENT

A Stakeholder Engagement Plan (SEP) has been prepared for the construction and operational phases of the Project in line with the WB ESS10. The SEP identifies target groups and the specific range of engagement activities required for each group.

Fina has the overarching goal of developing sustainable relations with stakeholders through the lifetime of the Project and therefore will continue to engage stakeholders through various activities as detailed in the Stakeholder Engagement Program.

Fina will provide transparent informative material in a consistent and timely manner to the affected communities and the remaining stakeholders. Communication methods to be employed vary dependant on the project phase,

issue to consult/inform as well as the stakeholder type. Communication methods with stakeholders within the Project include but not limited with the following:

- Public hearings or meetings
- Workshops and seminars
- Consultations with key informants
- Focus groups
- Round tables
- Discussions as part of conducting surveys or census studies
- Consultations using electronic media
- Awareness campaigns and outreach
- Internal/external grievance mechanism

Construction and Operational managers of the Pazarköy WPP Project will maintain regular dialogue with the local Mukhtars of the affected settlements.

5.0 HOW WILL THE PROJECT SUPPORT COMMUNITY DEVELOPMENT?

Fina will develop and Implement Corporate Social Responsibility (CSR) Plan within the scope of the Pazarköy WPP Project.

6.0 HOW TO RAISE A COMPLAINT OR ASK A QUESTION?

Fina has established a grievance mechanism which is available for every stakeholder to use, both internal and externally. Any comments or concerns can be brought to management attention either verbally or in writing (by post or e-mail) or by filling in a grievance form (an example is included in Appendix-1). Through that mechanism Fina will respond to and resolves the raised issues.

In order to ask a question, to make a comment or a complaint, stakeholders may also reach out to the General Directorate and Operations' Formal Communication departments by using following contact information.

Fina Istanbul office; Name: Title: Telephone: Address: E-mail: Website:	Fina Pazarköy office; Name: Title: Telephone: Address: E-mail: Website:

APPENDIX 1 – FINA INTERNAL GRIEVANCE FORM

Reference No:	
Full Name Note: *you can remain anonymous if you prefer or request not to disclose your identity to the third parties without your consent*	**Name & Surname: _____** ☐ **I wish to raise my grievance anonymously** ☐ **I request not to disclose my identity without my consent**
Contact Information **How the complainant wants to be contacted (mail, telephone, e-mail).**	☐ **By Post:** **Mailing address:** ☐ **By Telephone: _____** ☐ **By E-mail _____** ☐ **I don't want to be contacted**
Description of Incident or Grievance:	What happened? Where did it happen? Who did it happen to? What is the result of the problem?
Case summary:	
Date of Incident/Grievance	
	☐ **One-time incident/grievance (Date _____)** ☐ **Happened more than once (how many times? _____)** ☐ **On-going (Provide details)**
What would you like to see happen to resolve the problem?	

Only for internal usage: Status of complaint		
	Date:	Signature:
Complaint is closed by:		
Actions taken (Provide details):		

APPENDIX 1 – FINA EXTERNAL GRIEVANCE FORM

<table>
<tr><td colspan="3">Information about the complainant</td></tr>
<tr><td colspan="2">Name and Surname:</td><td rowspan="4">Only for internal use: How is the complaint made?
1. In person
2. By phone
3. By mail
4. By e-mail
5. Other (specify)……</td></tr>
<tr><td colspan="2">Date: ___/___/_____</td></tr>
<tr><td colspan="2">Address</td></tr>
<tr><td colspan="2">Phone</td></tr>
<tr><td colspan="2">E-mail</td><td></td></tr>
<tr><td colspan="2">Name and Surname of the person taking the complaint</td><td>Date of complaint and signature:</td></tr>
<tr><td colspan="3">DETAILS OF COMPLAINT:</td></tr>
<tr><td colspan="3">• Case for one time (date of problem/complaint ……..)

• Does the problem occur more than one?
☐ Yes, (how many times?.....)
☐ No

• Does the problem/complaint continue? (If “Yes”, provide details):</td></tr>
<tr><td colspan="3">Only for internal usage: Record and Respond</td></tr>
<tr><td colspan="2">Complaint reference number:</td><td>Date of complaint log:</td></tr>
<tr><td colspan="2">Name of personnel recording the complaint</td><td rowspan="2">Copy transfer:
• Relevant unit
• Other (specify)…….</td></tr>
<tr><td colspan="2">Required action:</td></tr>
<tr><td colspan="3">Only for internal usage: Status of compliant</td></tr>
<tr><td></td><td>Date:</td><td>Signature:</td></tr>
<tr><td>Complaint is closed by:</td><td></td><td></td></tr>
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