



Günaydın Solar Power Plant Project

Non-Technical Summary

PREPARED FOR



Kavram Enerji Yatırım Üretim ve
Ticaret A.Ş.

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Caner Sahin

Principal Consultant

Serkan Kirdogan

Partner

ERM GmbH Siemensstraße 9, 63263 Neu-
Isenburg

Fax +49 (0) 6102 771 904-0

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ACRONYMS AND ABBREVIATIONS

Acronyms	Description
Client	Kavram Enerji Yatırım Üretim ve Ticaret A.Ş. a subsidiary of Fiba Yenilenebilir Enerji Holding A.Ş.
E&S	Environmental and Social
EBRD	European Bank for Reconstruction and Development
EIA	Environmental Impact Assessment
EPC	Engineering, Procurement and Construction
ERM	Environmental Resource Management
ESAP	Environmental and Social Action Plan
ESIA	Environmental and Social Impact Assessment
ESP	Environmental and Social Policy
HS	Health and Safety
LALRP	Land Acquisition and Livelihood Restoration Plan
PRs	Performance Requirements
RAP	Resettlement Action Plan
SCMS	Supply Chain Management System
SEP	Stakeholder Engagement Plan
SIA	Social Impact Assessment
SLIP	Supplementary Information Package
SPP	Solar Power Plant
WPP	Wind Power Plant

1. INTRODUCTION

1.1 ABOUT GÜNAYDIN SPP PROJECT

Kavram Enerji Yatırım Üretim ve Ticaret A.Ş. (referred to as "Kavram" or "the Client") is planning to build and operate the Günaydın Solar Power Plant (SPP) in Balıkesir Province, Türkiye. Kavram is a subsidiary of Fiba Yenilenebilir Enerji Holding A.Ş. ("Fiba"). This solar power plant will work alongside an existing wind power plant called the Günaydın Wind Power Plant (WPP).

The Günaydın Solar Power Plant will have a total installed capacity of 19.98 megawatts (MWm) or 19.98 megawatts electric (MWe). Zhejiang Orient Engineering Co., Ltd. will handle the engineering, procurement, and construction (EPC) work. JA Solar Turkey and OEM Manufacture (HSA) are the main suppliers of solar panels for the Project.

1.2 ABOUT FIBA

Fiba was established by Fiba Holding in 2007 to operate in the field of renewable energy development, production and trade and continues its activities in this field with more than 500 employees and subsidiaries. Fiba currently has 14 wind power plants and 5 solar power plants with a capacity of 581 MW in operation.

1.3 WHAT IS THIS DOCUMENT?

This document is the Non-Technical Summary (NTS) for the Günaydın Solar Power Plant (SPP) of Kavram. The NTS consolidates and summarizes the key findings from the already conducted Environmental and Social Impact Assessment studies for the Projects in a non-technical language. Additionally, this document also consolidates information on the mitigation measures proposed by Kavram for the management of the Project environmental and social issues.

1.4 STANDARDS APPLIED BY THE PROJECT

Kavram commits to adhere to the applicable laws and regulations of Turkish Legislation during the Project lifetime. These requirements include (but are not limited to) the Environment Law, Occupational Health and Safety Law, Labor Law and their issued regulations. The Project aims to secure financing through the European Bank for Reconstruction and Development (EBRD). Therefore, the Project will comply with the applicable EBRD Environmental and Social Performance Requirements (PR) which are more stringent than national legislation and standards.

2. PROJECT DESCRIPTION

2.1 THE PURPOSE OF THE PROJECT

Solar energy is a crucial source of clean energy production and plays a significant role in combating global warming. With Turkey's growing energy demand, the importance of utilizing clean, independent, and infinite renewable energy sources has increased. Turkey's solar potential is highly valuable, and the use of solar energy has been on the rise since 2013.

The Günaydın SPP Project aims to establish a solar power plant in Balıkesir, providing sustainable and cost-effective clean energy, thereby contributing to both regional and national benefits.

The main permits and approvals applicable to the Project are given below.

TABLE 2-1 PROJECT PERMITTING STATUS

Topic	Permit	Status
General	License Applications for the Project	Obtained
Land Use	Public Interest Decision	Obtained
	Approval of Expropriation Plan	Obtained
	Expropriation Process	Ongoing
	Permit for the use of Forest Area (access roads)	Ongoing
Construction	EIA Approval	Obtained
	Permits and approvals for roads, water bodies, energy supply lines, utilization of municipal infrastructure etc.	Ongoing
	Construction Permit	Ongoing
Operation	License Application	To be Obtained
	Temporary Operating Certificate and Environmental Permit	To be Obtained

2.2 PROJECT LOCATION AND LAYOUT

Figure 2-1 provides a general overview where the Project is located in Türkiye. The Günaydın Solar Power Project is located in Balıkesir Province, Manyas District, Yayla Village. It has an installed capacity of 19.98 MWm / 19.98 MWe. The Project will complement the existing Günaydın Wind Power Plant Project, resulting in a combined capacity of 40.73 MWm / 20.00 MWe.

The Project consists of 10 different solar power plant areas (GES), as shown in Figure 2-2. To access the Project area existing roads existing roads will be used. Three new internal access roads within the Project area will be constructed. No overhead energy transmission lines are planned within the scope of the Project. Underground transmission lines will be built along the new internal access roads. Table 2-2 below presents the main Project components and explains their most important details.

TABLE 2-2 KEY PROJECT COMPONENTS

Component	Detail(s)
Solar Power Plant Areas (GES)	10 solar power plant areas (GES 1-10) are planned to be installed.
New Internal Access Roads	3 new internal access roads are planned for the Project: <ul style="list-style-type: none"> • 300m (between GES9 and existing road) • 150m (between GES9 and GES10) • 70m (between GES1 and GES2)
Underground Transmission Lines	The installation of 3 new underground transmission lines is planned for the Project. These lines will be built along the new internal access roads: <ul style="list-style-type: none"> • 300m (between GES9 and existing road) • 150m (between GES9 and GES10) • 70m (between GES1 and GES2)

The closest settlements to the Project are located in Yayla Village. These settlements lie 60m south of GES3 and 122m southwest of GES4 (see Figure 2-3).

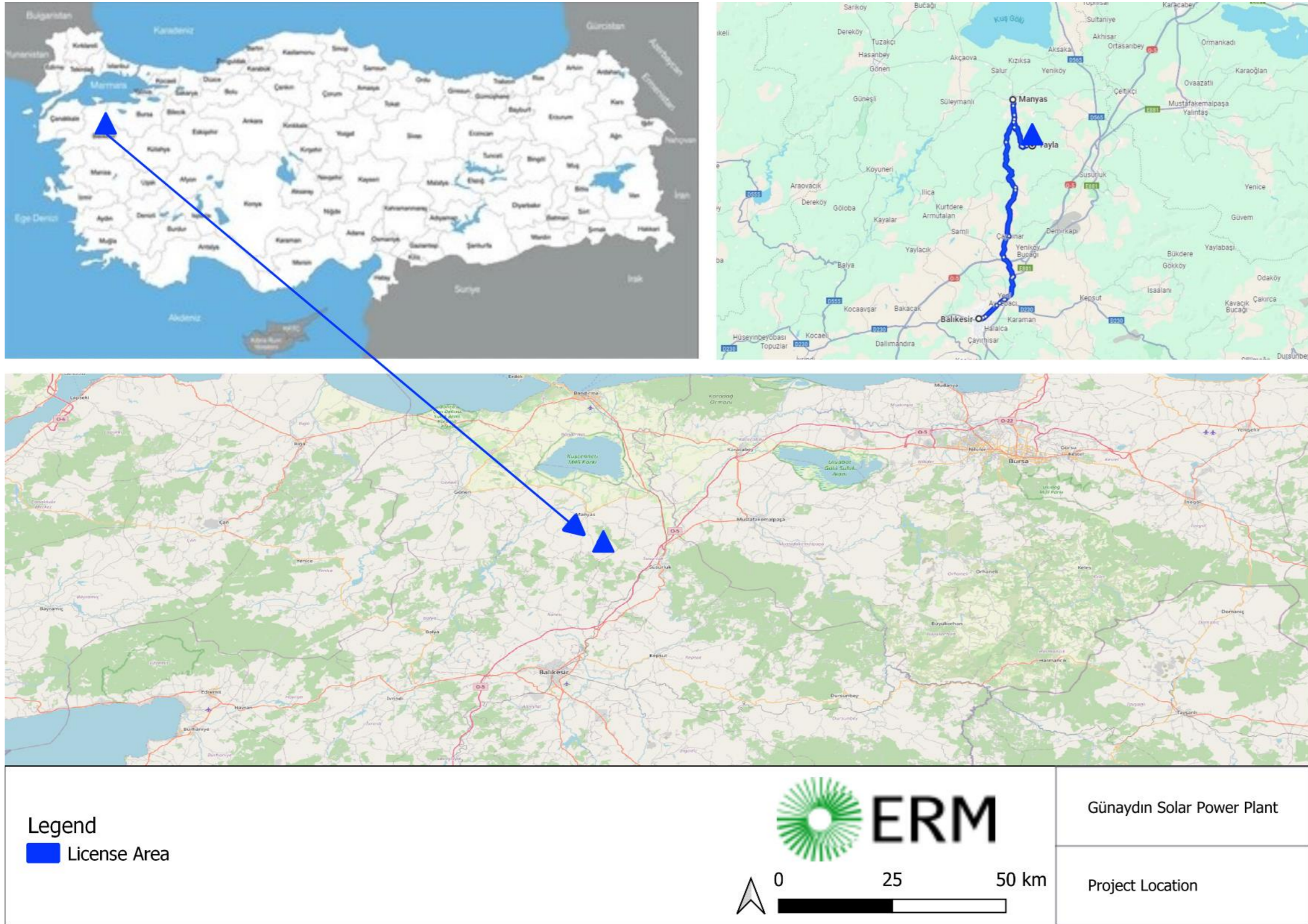
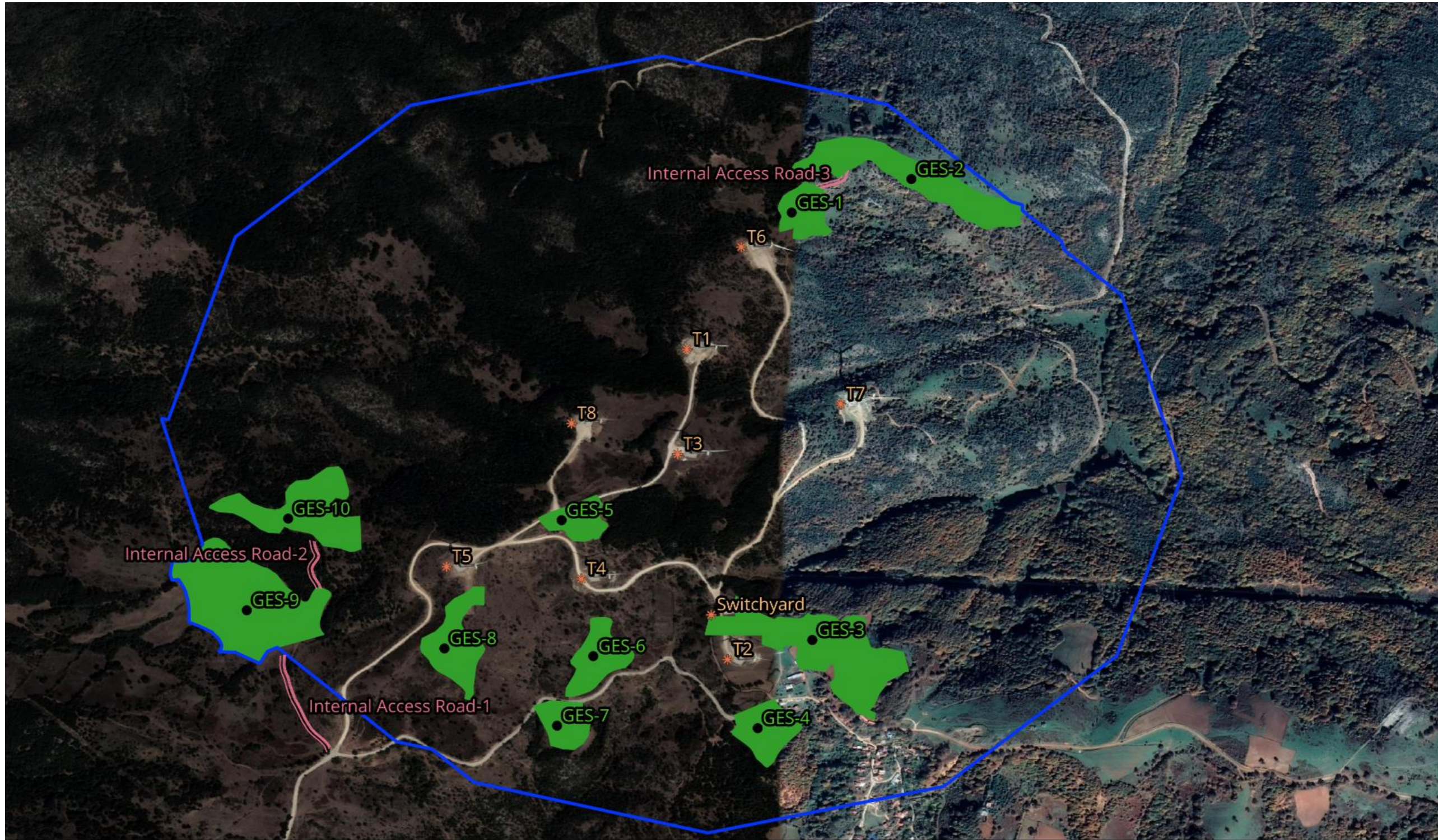


FIGURE 2-1 PROJECT LOCATION MAP



- Legend
- License Area
 - Solar Power Plant Polygons
 - Internal Access Roads
 - Existing Wind Turbines



Günaydın Solar Power Plant

Project Layout

FIGURE 2-2 PROJECT LAYOUT



Legend * Nearest Settlements □ License area ■ Solar Power Plan Polygons	 0 100 200 m 	Günaydın Solar Power Plant Nearest Village
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FIGURE 2-3 CLOSEST SETTLEMENTS

2.3 PROJECT PARTIES

An overview of the key Project parties is presented below.

TABLE 2-3 KEY PROJECT PARTIES

Role	Entity
Project Owner	Fiba Yenilenebilir Enerji Holding A.Ş.
Special Purpose Vehicle (SPV)	Kavram Enerji Yatırım Üretim ve Ticaret A.Ş. a subsidiary of Fiba Yenilenebilir Enerji Holding A.Ş.
Engineering, Procurement, and Construction (EPC Contractor)	Zhejiang Orient Engineering Co., Ltd
Primary Panel Supplier	JA Solar Turkey and OEM Manufacture (HSA)

2.4 PERSONNEL PLAN FOR THE PROJECT

There will not be construction camp and accommodation during the construction phase. During the construction phase, the total number of personnel planned to be employed is 60 workers. A shuttle service will be provided for transporting workers to and from the project site.

During the operation, no additional workers hired. The workers currently working for the wind farm will also be responsible for the SPP Project.

3. 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 (see Table 3-1 and Table 3-2).

TABLE 3-1 SUMMARY OF CONSTRUCTION MITIGATION MEASURES FOR THE PROJECT

Component	Potential Impact	Mitigation Measures
Air Quality	<ul style="list-style-type: none"> PM10-PM2.5 resulted from construction activities and transportation. SO₂, NO_x, resulted from construction activities and transportation. 	<ul style="list-style-type: none"> Periodic maintenance of construction equipment Dust suppression by street-sprinkler. Implementation of relevant Management Plan/Procedures (Traffic Management Plan, Training, etc.).
Noise	<ul style="list-style-type: none"> Resulted from construction activities, construction of roads and transportation. 	<ul style="list-style-type: none"> Periodic maintenance of construction equipment Implementation of relevant Management Plan/Procedures (Traffic Management Plan, Training, etc.).
Water usage	<ul style="list-style-type: none"> The water to be used in construction and operation phase will be supplied by tankers from the nearest settlement. 	<ul style="list-style-type: none"> Necessary permits to be obtained to supply water.
Wastewater	<ul style="list-style-type: none"> Domestic wastewater will be formed in the 	<ul style="list-style-type: none"> Septic tank will be used to collect the wastewaters. Wastewater that

	project due to worker's water usage.	accumulates in the septic tank will be collected by the municipality.
Biodiversity	<ul style="list-style-type: none"> Impacts on flora and fauna components by land disturbance. Dust and noise impacts (given above). 	<ul style="list-style-type: none"> The general mitigation measures (such as, land minimization of land disturbance where possible, etc.) are defined in the EIA Report. Additional flora studies have been conducted to revise the existing studies.
Cultural Heritage	<ul style="list-style-type: none"> No tangible and intangible cultural heritage assets have been identified. 	<ul style="list-style-type: none"> Implementation of Chance Find Procedure.
Social - Economical and Land Use	<ul style="list-style-type: none"> Positive impacts are expected both for local procurement and local employment. Impacts on livelihood resources may be resulted by construction activities. 	<ul style="list-style-type: none"> Prioritizing the local procurement and employment Implementation of relevant Management Plan/Procedures (Land Acquisition Plan).
Community Health and Safety	<ul style="list-style-type: none"> Increased traffic load and potential risks. Unauthorized site access. Potential communication problems of community members with workers. Dust and noise impacts (given above). 	<ul style="list-style-type: none"> Implementation of relevant Management Plan/Procedures (Community H&S Management Plan, Traffic Management Plan, Training, etc.). Implementation of Grievance Mechanism Procedure.
Occupational Health & Safety	<ul style="list-style-type: none"> Occupational health and safety risks will mainly include activities of working at height and lifting operations. 	<ul style="list-style-type: none"> 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 3-2 SUMMARY OF OPERATION MITIGATION MEASURES FOR THE PROJECT

Component	Potential Impact	Mitigation Measures
Noise	<ul style="list-style-type: none"> The operational noise impacts are expected to be insignificant during operation. 	<ul style="list-style-type: none"> Not Applicable
Biodiversity	<ul style="list-style-type: none"> Impacts on fauna (Birds and bats). 	<ul style="list-style-type: none"> The general mitigation measures (such as, land minimization of land disturbance where possible, etc.) are defined in the Supplementary Lender's Information Package (SLIP).

Cultural Heritage	<ul style="list-style-type: none"> ■ No tangible or intangible cultural heritage assets have been identified 	<ul style="list-style-type: none"> ■ Implementation of Chance Find Procedure.
Social - Economical and Land Use	<ul style="list-style-type: none"> ■ Positive impacts are expected both for local procurement. 	<ul style="list-style-type: none"> ■ Prioritizing the local procurement.
Community Health and Safety	<ul style="list-style-type: none"> ■ Unauthorized access to solar panels. 	<ul style="list-style-type: none"> ■ Fencing of solar panel areas. ■ Regular maintenance of the solar panels.
Occupational Health & Safety	<ul style="list-style-type: none"> ■ During operation the impacts will likely be limited to the maintenance of the solar panels. 	<ul style="list-style-type: none"> ■ 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. STAKEHOLDER ENGAGEMENT

A Stakeholder Engagement Plan (SEP) has been prepared for the construction and operational phases of the Project in line with the EBRD PR10. The SEP identifies target groups and the specific range of engagement activities required for each group.

Kavram 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.

Kavram 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 depending 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

Initial engagement was conducted through the form of meetings and interviews. Kavram authorities or consultants for Kavram have gone to the affected communities to consult with the local stakeholders. These methods will continue during the construction and operational period. Construction and Operational managers of the Günaydın SPP Project will maintain regular dialogue with the local Mukhtars of the affected settlements.

5. WHERE TO GET MORE INFORMATION?

Kavram intends to make it easy for the public to properly understand both Kavram's general and Project-specific intentions, activities, and desired outcomes. Kavram invites the public and relevant stakeholders to engage with and share any comments, suggestions, questions, or complaints about the Project.

Further information can be accessed online at Fiba's general website, fibaenerji.com. Users can reach Fiba/Kavram online, in person, or over the phone with the following contact information:

Kısıklı Cd. Sarkuysan Ak İş Mrk. No:4 A Blok K:2 Altunizade – Üsküdar / İstanbul / Türkiye;
Telephone: +902165545400; e-mail: fibayenilenebilirenerji@fibaenerji.com



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