

REPORT

Project ANKA - G3-Gaziantep-1-1, 2-1, 3-1 Solar Power Plant, Gaziantep

Environmental and Social Impact Assessment - Non-Technical Summary

Submitted to:

KALYON YEKA GES 3 ve 4 GÜNEŞ ENERJİSİ YATIRIMLARI A.Ş.

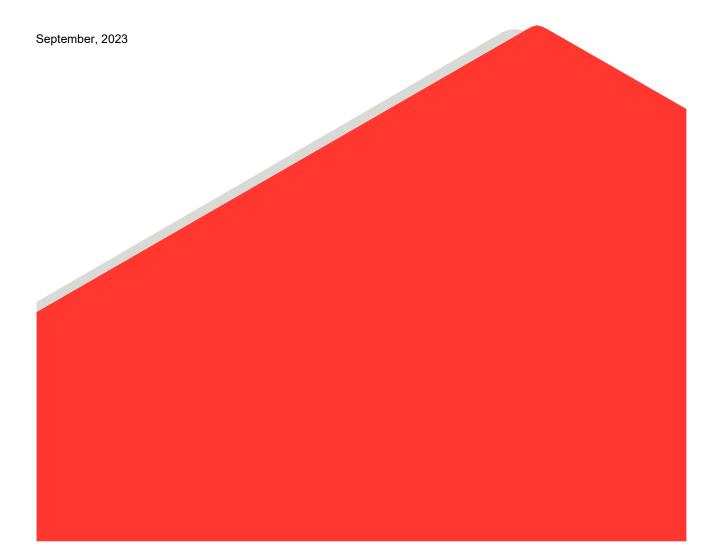
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Acronyms and Abbreviations

Abbreviation	Definition
AC	Alternating Current
AFAD	Disaster and Emergency Management Authority
Aol	Area of Influence
APL	Allocation in Return for Domestic Production
AZE	Alliance for Zero Extinction
ССТV	Closed-circuit television
CDP	Community Development Plan
СН	Critical Habitat
СНА	Critical Habitat Assessment
CIA	Cumulative Impact Assessment
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
Client	Kalyon YEKA GES 3 ve 4 Güneş Enerjisi Yatırımları A.Ş., subsidiary of Kalyon Enerji
CLO	Community Liasion Officer
CLS	Community Level Survey
СМС	Continuous Monitoring Center
СО	Carbon Monoxide
CSP	Concentrating solar-thermal power
CVD	Chemical Vapour Deposition
dBA	Decibels A
DC	Direct Current
DD	Data Deficient
EAAA	Ecologically Appropriate Area of Analysis
EBRD	European Bank for Reconstruction and Developmen
EHSS	Environment, Health and Safety, Social
E&S	Environmental and Social
EIA	Environmental Impact Assessment

Abbreviation	Definition
EMRA	Energy Market Regulatory Authority
EN	Endangered
EOO	Extent of Occurrence
EP	Equator Principles
EPC	Engineering, procurement, and construction
EPA	Environmental Protection Agency
EPFI	Equator Principles Financial Institution
EPRP	Emergency Preparedness and Response Plan
ESGA	E&S Gap Assessment
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESMS	Environmental and Social Management System
EU European Union	
EUNIS	European Nature Information System
FGD	Focus Group Discussion
GHG	Greenhouse Gas
GIIP	Good International Industry Practice
GN	Guidance Note
ha	hectare
нс	Hydrocarbon
нн	Household Survey
HR	Human Resources
hPA	Hectopascal
HR	Human Resources
HSE	Health and Safety and Environment
IBA	Important Bird Area
ICOMOS	The International Council on Monuments and Sites
ICP	Informed Consultation and Participation
IFC	International Finance Corporation

Abbreviation	Definition
IFI	International Financial Institutions
IPA	Important Plant Area
IUCN	International Union for Conservation of Nature
Kalyon Enerji	Kalyon Enerji Yatırımları A.Ş. (the Project Owner)
КВА	Key Biodiversity Area
КМ	Kilometer
КРІ	Key Performance Indicator
L	Liter
LC	Least Concern
LNG	Liquefied Natural Gas
LRP	Livelihood Restoration Plan
м	Meter
m ³	Cubic meter
MEDAŞ	MERAM Electricity Distribution Inc. Co.
mm	Milimeter
MoAF	Ministry of Agriculture and Forestry
МоС	Management of Change
MoEUCC	Ministry of Environment, Urbanisation and Climate Change
MWe	Megawatt Electric
MWp	Megawatt Power
N/A	Not Applicable
N-CP	Non-Compliance
NGO	Non-governmental Organization
NO _x	Nitrogen Oxide
NT	Near Threatened
NTS	Non-Technical Summary
OBS	Observation
OECD	The Organization for Economic Cooperation and Development
OHS	Occupational Health and Safety

Abbreviation	Definition		
OHTL	Overhead Transmission Line		
PA/CA	Preventative Actions/Corrective Actions		
РАР	Project Affected Person		
РСВ	Polychlorinated Biphenyls		
PDoEUCC	Provincial Directorate of Environment, Urbanization and Climate Change		
PGA	Peak Ground Acceleration		
РМ	Particulate Matter		
РРМ	Public Participation Meeting		
PS	Performance Standard		
PV	Photovoltaic		
RAP	Resettlement Action Plan		
RCIA	Rapid Cumulative Impact Assessment		
R&D	Research and Development		
RIV	Residual Impact Value		
RLE	Red List of Ecosystems		
RMU	Disconnector -Breaker Unit		
RSA	Regional Study Area		
RWIHC	Regulation of Water Intended for Human Consumption		
SCADA	Supervisory Control and Data Acquisition		
Sec	second		
SEA	Strategic Environmental Assessment		
SEP	Stakeholder Engagement Plan		
SF	Safety Factor		
SHW	State Hydraulic Works		
SIA	Social Impact Assessment		
SO ₂	Sulphur dioxide		
SP	Sampling Point		
SPA	Special Provincial Administration		
SPP	Solar Power Plant		

Abbreviation	Definition
sqm	Square Meter
SYDV	Social Assistance and Solidarity Foundation
TCFD	Task Force on Climate-related Financial Disclosures
TEDAŞ	Turkey Electricity Distribution Inc.
TEİAŞ	Turkish Electricity Transmission Corporation
TGFZ	Tuz Gölü Fault Zone
TOE	Tonne of oil equivalent
TRY	Turkish New Lira
TS	Turkish Standard
TURKSTAT	Turkish Statistical Institute
TÜBİVES	Turkish Plants Data Service
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNGP	United Nations Guiding Principles on Business and Human Rights
VEC	Valued Environmental and Social Component
VU	Vulnerable
WB	World Bank
WB ESF	World Bank Environmental and Social Framework
WHO	World Health Organisation
WSP Türkiye	WSP-Golder Associates Türkiye Ltd.
WWF	World Wildlife Fund
WWTP	Wastewater Treatment Plant
YADES	Ministry of Family and Social Services Elderly Support Program
YEKA	Renewable Energy Source Area

Record of Issue

Company	Client Contact	Version	Date Issued	Method of Delivery
KALYON YEKA GES 3 ve 4 GÜNEŞ ENERJİSİ YATIRIMLARI A.Ş.	Defne Arısoy	Draft_R0	29.09.2023	E-mail
KALYON YEKA GES 3 ve 4 GÜNEŞ ENERJİSİ YATIRIMLARI A.Ş.	Defne Arısoy	Draft_R1	17.10.2023	E-mail

1.0 INTRODUCTION

1.1 Project Background

G3-GAZİANTEP-1-1/2-1/3-1 Solar Power Plants Project with a total installed capacity of approximately 65 MWp/50 MWe, is planned by Kalyon Enerji Yatırımları A.Ş. ("Kalyon Enerji") and Kalyon YEKA GES 3 ve 4 Güneş Enerjisi Yatırımları A.Ş. ("Kalyon"), a subsidiary of Kalyon Enerji. The Project will be in Gaziantep Province, in the Şahinbey District, Kürüm neighbourhood in Türkiye.

The Project Area had been announced as a Renewable Energy Resource Area (YEKA) by the Ministry of Energy and Natural Resources. Scope of the "Contest Announcement on the Allocation of Renewable Energy Resource Areas and Connection Capacities Based on Solar Energy" published in the Official Gazette dated 03/07/2020 and numbered 31174; YEKA G3-GAZİANTEP-1-1/2-1/3-1 competitions were won by the Client. YEKA Right of Use Contract were signed on 01.07.2021 between the winner of the competition, Kalyon Energi Yatırımları A.Ş and the Ministry of Energy and Natural Resources. Pre-license was given by the Ministry of Industry and Technology, numbered ÖN/11080-30/05183 and 28.07.2022.

The Project consists of three sub-projects namely, G3-Gaziantep-1-1 Solar Power Plant Project, G3-Gaziantep 2-1 Solar Power Plant Project and G3-Gaziantep 3-1 Solar Power Plant Project. Individual Environmental Impact Assessment (EIA) reports have been prepared for these sub-projects per the requirements of national EIA Regulation and the "EIA Positive" decisions for each have been acquired as shown in Table 1.

Name of Sub Project	Allocated Area (ha)	Capacity	National EIA Status	Land Allocation
G3-Gaziantep 1-1 Solar Power Plant Project	49.98	26 MWp/26 MWm/ 20 MWe	EIAPositiveDecisionAcquired(DecisionDate/No:25.12.2022/6884)	Pastureland – Treasury land
G3-Gaziantep 2-1 Solar Power Plant Project	48.12	26 MWp/26 MWm/ 20 MWe	EIAPositiveDecisionAcquired(DecisionDate/No:26.12.2022/6885)	Pastureland – Treasury land
G3-Gaziantep 3-1 Solar Power Plant Project	24.86	13 MWp/13 MWm/ 10 MWe	EIA Positive Decision Acquired (Decision Date/No: 26.12.2022/: 6886)	Pastureland – Treasury land
TOTAL	122.96	65 MWp/65 MWm/50 Mwe	-	-

 Table 1: EIA Decisions of Sub-Projects

A Gap Analysis Study, previously prepared by WSP Danışmanlık ve Mühendislik Ltd. Şti. ("WSP Türkiye") in April 2023, has identified gaps of the existing national EIA Reports and available documentation obtained from the Client and suggest actions to close these gaps to reach a full bankable Environmental and Social Impact Assessment (ESIA) in line with the International Conventions, IFIs Performance Standards (Equator Principles IV (EP), International Finance Corporation (IFC) Performance Standards (PS), Organization for Economic Cooperation and Development (OECD)'s Common Approaches and Guidelines, and the best practices in the industry along with the national legislation). The Client retained WSP Türkiye to prepare the Environmental and Social Impact Assessment ("ESIA") for the Project in compliance with the national and international requirements detailed above and in Chapter 2.

The financing process is currently ongoing.

1.2 Project Owner

The Client is a renewable energy investment company established in 2016. As of August 2022, Kalyon Enerji belongs to International Energy Holding, which is affiliated with International Holding Company, one of the largest investment companies of the United Arab Emirates and the Gulf Region, and the remaining 50% belongs to Kalyon İnşaat, which is one of the leading construction companies of Türkiye and has signed many essential construction works.

Kalyon Enerji's top priority is to make energy accessible to everyone, including disadvantaged groups, by using clean and renewable energy sources. In this respect, the Client focuses on solar and wind power plant investments considering Turkey's and the world's ever-increasing energy needs with a sustainability vision and playing a leading role in the fight against climate change. When the client engages in impact investments in clean energy, due consideration is given to both the objectives of the nation in question and the global imperatives.

1.3 **Project Parties**

Project parties that will be involved in the SPP investment are illustrated below.



Figure 1: Illustration of Project Parties

Project Owner: Kalyon Enerji Yatırımları A.Ş.

SPV and the Client: Kalyon YEKA GES 3 ve 4 Güneş Enerji Yatırımları A.Ş., special purpose vehicle established for construction and operation of the facility, subsidiary of Kalyon Enerji Yatırımları A.Ş.

EPC: UKKA Group Limited, responsible for engineering, procurement, and construction during the construction phase of the facility.

TEİAŞ: Turkish Electricity Transmission Corporation, a public government company, that operates and owns the transmission of electricity, is responsible for the planning of a transmission investment for the new transmission facilities to be established, to establish new transmission facilities. The right of ownership and operation boundary of TEİAŞ starts at the connection point to the transmission system. In case the connection of the generation or consumption facility to the transmission system is carried out through the switchyard of another generation or consumption facility, the right of use, operation, and maintenance of the connected feeder

belongs to TEİAŞ. However, TEİAŞ may request the operation and maintenance of such equipment to be performed by the relevant generation or consumption facility at a specified cost.

Global Enco Energy: contractor responsible for the construction of energy transmission lines for all YEKA Projects under an ordinary partnership that will be established with the participation of YEKA Project Owners including Kalyon Energi.

1.4 **Project Rationale**

Solar power is a clean and renewable energy source that utilizes sunlight to generate electricity. By establishing a solar power plant, dependence on fossil fuels can be reduced and climate change can be mitigated by reducing greenhouse gas emissions.

Solar power provides an opportunity for countries to achieve energy independence. By generating electricity locally from the sun, reliance on imported fossil fuels can be reduced and energy costs can be stabilized. Once the initial investment is made to set up the solar power plant, the operational costs are relatively low. Solar power has a long lifespan, and the fuel source (sunlight) is infinite and free, making it a financially viable and sustainable option.

Solar power plants offer scalability and modularity. Depending on the available space and energy demand, the plant's capacity can be expanded by adding more solar panels. This flexibility allows for the customization and optimization of the project to meet specific energy needs.

Solar power technology has been advancing rapidly, resulting in improved efficiency and reduced costs. Continued investments in solar power plants can help drive further technological innovations, making solar energy even more accessible and cost-effective.

In this respect, the Project aims to:

- create a balanced portfolio in electricity generation by increasing the share of renewable energy resources,
- increase the resource diversity in total electricity generation,
- reduce the cost of electricity purchased from renewable energy generation facilities.

With the realization of the Project:

- Domestic production in renewable energy technologies will be developed,
- The capacity of qualified human resources will increase,
- Renewable energy soruces will increase across the country.

1.5 The Goal of this Document

An Environmental and Social Impact Assessment study has been conducted by WSP Türkiye regarding the realization of the Gaziantep SPP Project. This document, non-technical summary (NTS) of the ESIA, aims to summarize the ESIA findings, which was conducted according to the national and international regulations and standards of international Lenders, and mitigation measures for the management of the Project's environmental and social issues which was proposed by Kalyon Enerji; and aims to provide clear and valid information for the stakeholders by using a non-technical language.

1.6 Standards to be Applied in the Project

Kalyon Enerji commits to adhere to the provisions of Turkish laws and requirements 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 other applicable Turkish legislation.

The Project will also comply with the International Finance Corporation Performance Standards (IFC PSs), Equator Principles and the Turkish laws and requirements.

1.7 Project Categorisation

The requirements from IFC and Equator Principles 4 regarding the Environmental and Social Assessment process and outcomes differ depending on the category of the project. Projects are categorized as follows:

Table 2: Project Categorisation

Applicable Standard	Category Explanation
IFC PSs (2012)	Category B: Business activities with potential limited adverse environmental or social risks and/or impacts that are few in number, generally site-specific, largely reversible, and readily addressed through mitigation measures
EPIV (2020)	Category B – Projects with potential limited adverse environmental and social risks and/or impacts that are few in number, generally site-specific, largely reversible and readily addressed through mitigation measures.

Project is proposed as "Category B" in reference to Equator Principles 4 and IFC for project categorization.

2.0 PROJECT DESCRIPTION

2.1 **Project Overview and the Location**

G3-GAZİANTEP-1-1/2-1/3-1 Solar Power Plants Project with a total installed capacity of approximately 65 MWp/50 MWe, is planned by Kalyon Enerji Yatırımları A.Ş. ("Kalyon Enerji") and Kalyon YEKA GES 3 ve 4 Güneş Enerjisi Yatırımları A.Ş. ("Client"), a subsidiary of Kalyon Enerji. The Project will be in Gaziantep Province, in the Şahinbey District, Kürüm neighbourhood in Türkiye. Once the Solar Power Plant is put into operation, it is planned to produce 135,808 MWh of electricity in annual basis, and the electricity produced will be transferred to two separate 1272 MCM OHTLs namely Polateli ~100 m 154 kV OHTL and Abdülhamit Han ~100 m 154 kV OHTL.

The Project pre-construction activities, namely, mobilization of temporary site facilities, site preparation, grading and levelling, material delivery and storage and certain early trenching activities for cable laying is planned to be started in August 2023.

Figure 2 represents the actual site conditions and Project location and layout are presented in Figure 3 and Figure 4, respectively. Nearest settlements are shown in Figure 5.





Figure 2: Photos of General Site (Dated May 10, 2023, taken by WSP)

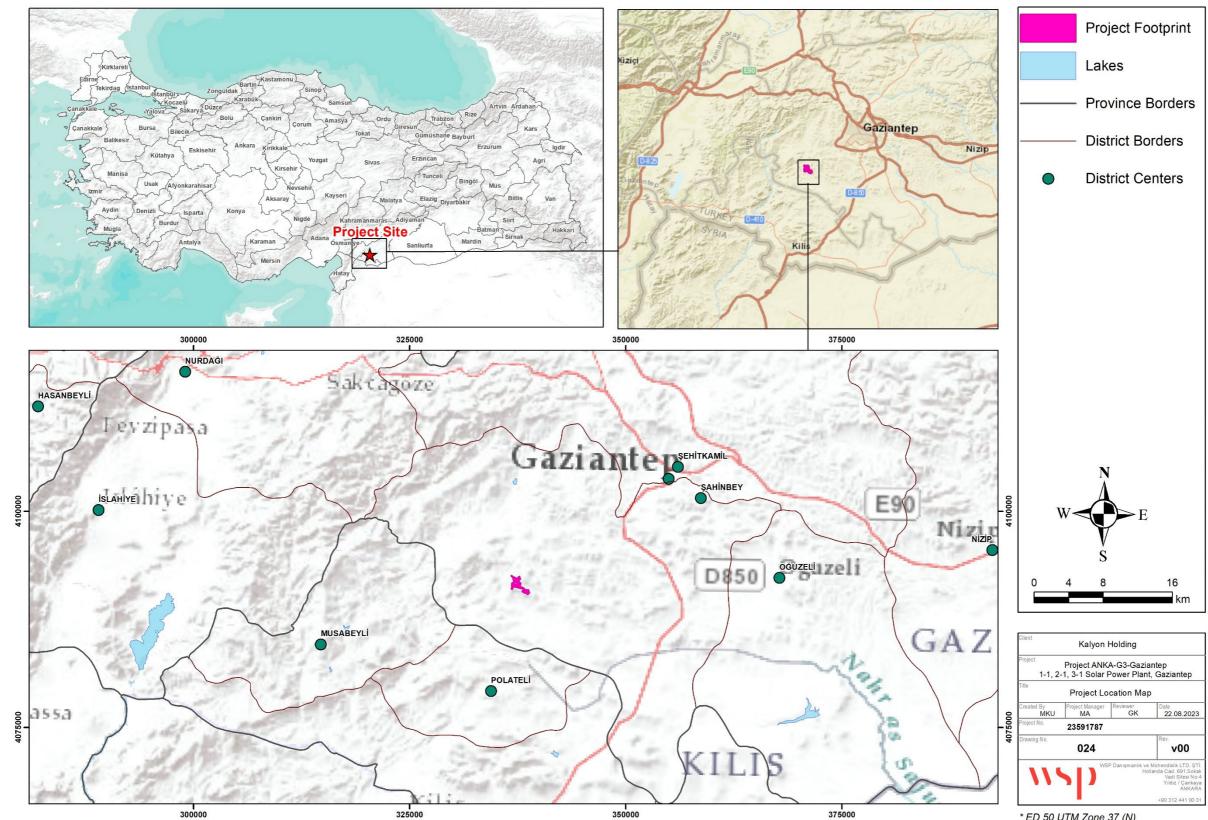


Figure 3: Project Location Map

* ED 50 UTM Zone 37 (N)

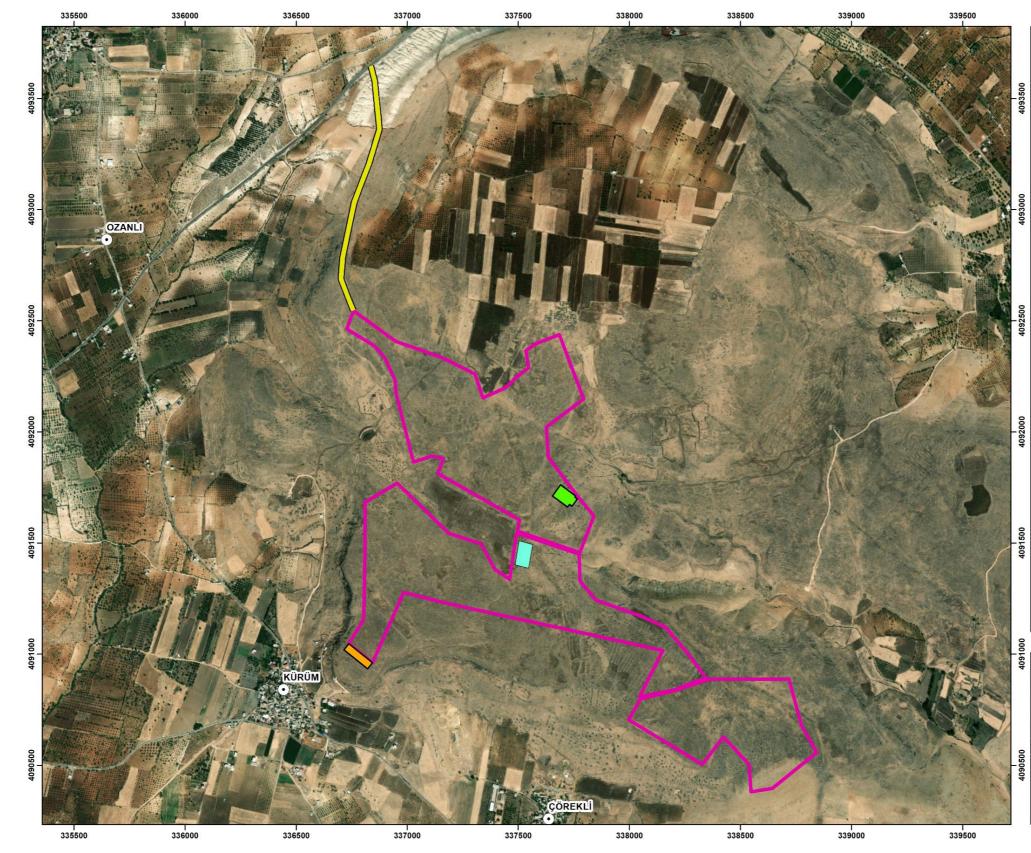
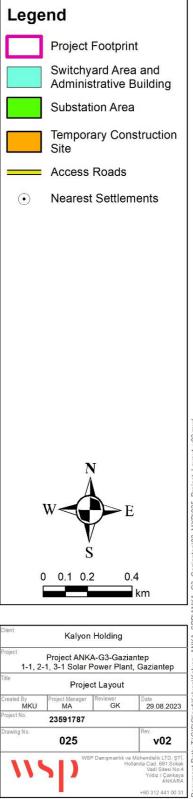


Figure 4: General Project Layout



* ED 50 UTM Zone 37 (N)

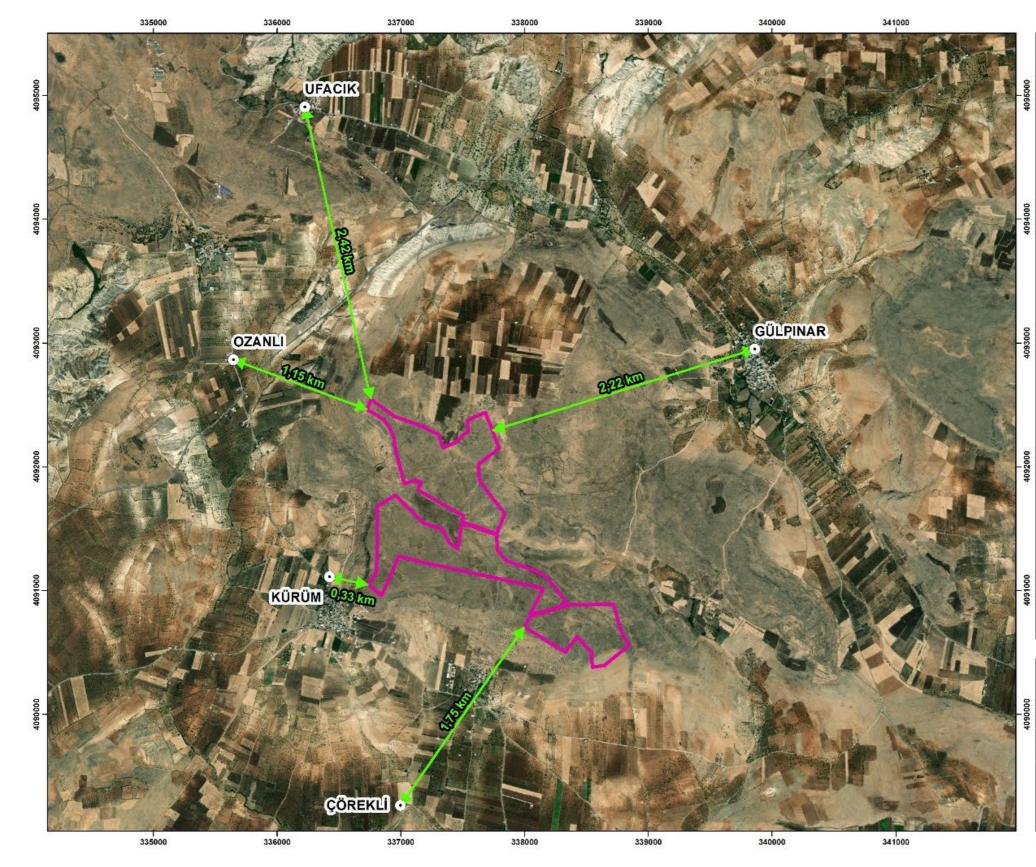
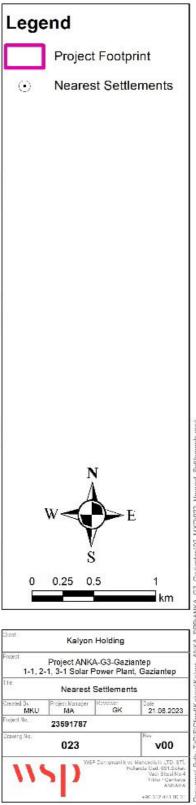


Figure 5: Nearest Settlements



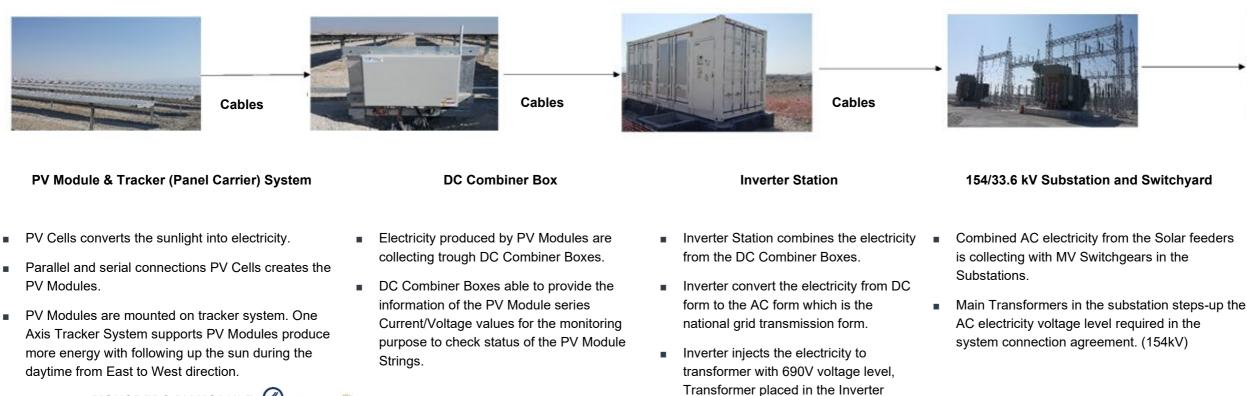
* ED 50 UTM Zone 37 (N)

2.2 Project Components

The main components of the plant consist of solar panels, PV module carrier system (one-axis solar tracker), DC Combiner Boxes, inverter stations and a substation. Other infrastructure and utilities can be listed as the Transformer Center Building (Supervisory Control and Data Acquisition (SCADA)), administration building (including dining hall, security building, personnel workshop). Once the Solar Power Plant is put into operation, it is planned to produce 135,808 MWh of electricity annually, and the electricity produced will be connected to two separate 1272 MCM OHTLs namely Polateli ~100 m 154 kV OHTL and Abdülhamit Han ~100 m 154 kV OHTL. Details of the Project components are provided in Chapter 3 of ESIA report.

Main components, their arrangements and working principles are presented in Figure 6.

September, 2023



Station step-up the voltage level to the

Through the RMU (Ring Main Unit) switchgears the AC electricity combining together from couple of Inverter Stations and sending to the

4.73 MW CENTRALIZED INVERTER **STATION**

33.6kV.

Substation.

MONOPERC PV MODULE

Panel Power: 400 W Panel QTY: 162368 PCS

SINGLE AXIS TRACKER SYSTEM **©PVH**

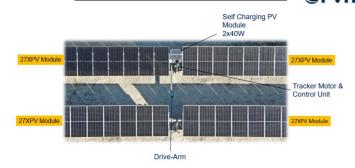


Figure 6: Project Illustration



- 154 kV Overhead **Transmission Line**
- HV electricity injecting to the national grid trough the overhead transmission line.

2.3 Associated Facilities

According to the OECD and IFC Performance Standards, Associated Facilities are defined as:

- OECD "Associated facilities are those facilities that are not a component of the project but that would not be constructed or expanded if the project did not exist and on whose existence the viability of the project depends; such facilities may be funded, owned, managed, constructed and operated by the buyer and/or project sponsor or separately from the project."
- IFC PS1 par. 8 "Associated facilities, which are facilities that are not funded as part of the project and that would not have been constructed or expanded if the project did not exist and without which the project would not be viable".

2.3.1 OHTL

Transmission line is the system that provides electrical energy transmission between substations and end consumers. An overhead transmission line consists of a copper or aluminum conductor cable, a carrier pole and an insulating insulator that provides the connection between the pole and the conductor.

According to the information obtained from the Client, once the Solar Power Plant is put into operation, the electricity produced will be connected to two separate 1272 MCM OHTLs namely Polateli ~100 m 154 kV OHTL and Abdülhamit Han ~100 m 154 kV OHTL. The OHTL is passing through the project area and already under construction by the TEİAŞ. There will be no OHTL construction of concern in the scope of the project.

2.3.2 Water Pipeline

There will be no water pipeline is required in the scope of the Project for supply of the potable water since the required potable water is planned to be supplied from GASKİ via water trucks.

2.4 Alternative Analysis

IFC PS1 requires full and detailed justification for any proposed alternatives through the environmental and social risks and impacts identification and assessment process. The purpose of this section is to summarize how the Project siting and components represent an optimized design that is technically and financially viable while minimizing overall environmental and social impacts.

2.4.1 Site Alternatives

In the Yerköy-Kayseri HSR route selection, after the corridor determined by the General Directorate of TCDD The Project will be established on a pastureland of 122.96 hectares. The Project Area was announced as a Renewable Energy Resource Area (YEKA) by the Ministry of Energy and Natural Resources. Scope of the "Contest Announcement on the Allocation of Renewable Energy Resource Areas and Connection Capacities Based on Solar Energy" published in the Official Gazette dated 03/07/2020 and numbered 31174; YEKA G3-GAZİANTEP-1-1/2-1/3-1 competitions were won by the Project Sponsor. YEKA Right of Use Contract were signed on 01.07.2021 between the winner of the competition, Kalyon Enerji Yatırımları A.Ş and the Ministry of Energy and Natural Resources. Pre-license was given by the Ministry of Industry and Technology, numbered ÖN/11080-30/05183 and 28.07.2022.

During the selection of the project area, following criteria were followed:

- The YEKA GES-3 Specification Article 4.3 stipulates that GES (Renewable Energy Resource Area) can be determined on public and treasury immovables or immovables subject to private ownership.
- According to Article 4.5 of the YEKA GES-3 Specification, the Proposed CANDIDATE YEKAs cannot be located within the following given areas:



- Forest,
- Large plain conservation areas,
- Absolute Agricultural Lands,
- Special Product Lands,
- Planted Agricultural Lands,
- Irrigated Agricultural Lands, and
- Lands within environmental areas that will not disrupt the integrity of agricultural use.
- In accordance with Article 4.6 of the YEKA GES-3 Specification, "4.6. Candidate YEKA cannot be proposed on areas declared as YEKA or Candidate YEKA." A portion of the Hatay-Erzin YEKA area declared by the Ministry in the year 2018 is located within the Osmaniye province.
- Restrictions based on our own assessment outside of the YEKA GES-3 Specification:
 - National Parks,
 - Nature reserves,
 - Wildlife development areas,
 - Wetlands,
 - Licensed Wind Power Plants, Unlicensed GES (Renewable Energy Resource Areas),
 - Distances to ENH (Electricity Transmission Substations) and Transformer centers,
 - Land Slope/Land Aspect,
 - Lands' GHI (Global Horizontal Irradiance), Albedo values,
 - Average temperature values of lands (for South/Southeast regions), and
 - Horizon (Project horizon and daylight line).

Apart from this, Solar Radiation Maps of the potential project areas, detailed studies in Gaziantep Province, identification of suitable areas based on slope and project horizon and sunlight line are also considered during selection process of the project area. (see Figure 12 - Figure 14).

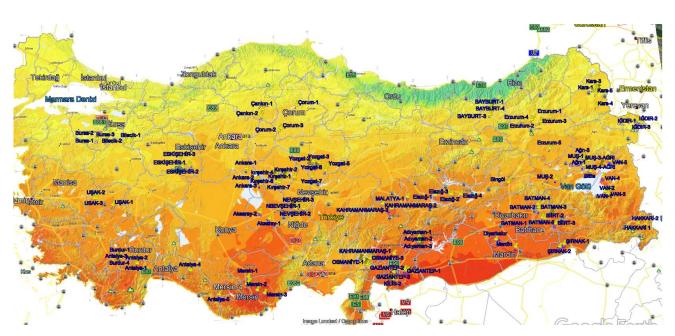
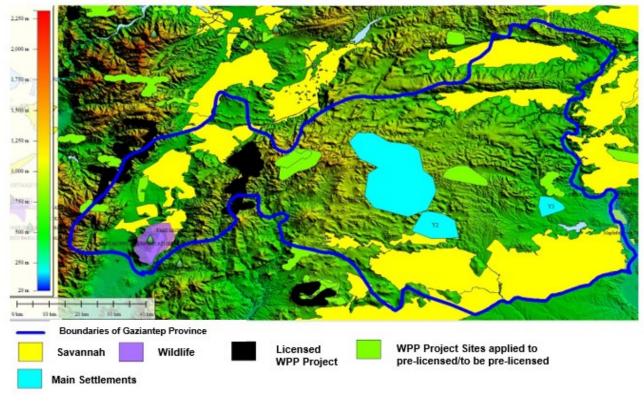


Figure 7: Solar Radiation Maps of the Potential Project Areas



LIMITATIONS ON TOPOGRAPHICAL MAP OF GAZIANTEP PROVINCE

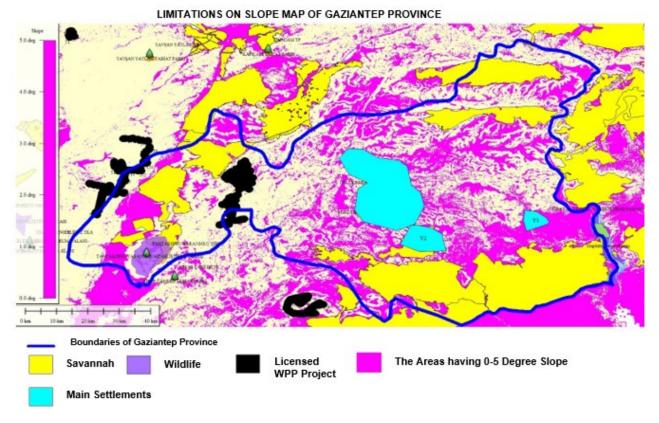


Figure 8: Detailed Topographical and Slope Studies in Gaziantep Province





Figure 9: Project Horizon and Sunlight Line

In the conducted land assessment studies, due to the favourable land conditions between projects in different connection regions, it is possible to design the projects side by side. With the consideration of selection criteria stated in technical specification of YEKA GES-3, topographical conditions and slope, solar radiation ratios and project horizon and sunlight line, current location of the Project area was selected.

2.4.2 Technology Alternatives

There are two main types of solar energy technologies: photovoltaics (PV) and concentrating solar-thermal power (CSP). Concentrating solar-thermal power (CSP) systems use mirrors to reflect and concentrate sunlight onto receivers that collect solar energy and convert it to heat, which can then be used to produce electricity or stored for later use. It is used primarily in very large power plants. CSP technology often relies on water for cooling and steam generation whereas PV technology requires minimal to no water for electricity generation, PV systems typically require occasional cleaning to maintain optimal performance, while CSP systems involve more extensive maintenance and monitoring due to the use of mirrors, tracking mechanisms, and heat transfer



fluids.¹ CSP systems typically require large open areas with specific land requirements and solar resource availability whereas PV panels can be installed on various surfaces. It is worth noting that CSP technology has its own advantages, such as the ability to incorporate thermal energy storage, which allows for continuous electricity generation even when the sun is not shining.² The choice between PV and CSP depends on factors such as project scale, location, energy requirements, and other specific considerations.

The Ministry identified photovoltaic solar energy as the project technology during the tender stage. Therefore, no other technology alternative is available for the Project.

2.4.3 No-Project Alternative

The 'No Project' alternative is the situation where the Project, does not proceed. Under this scenario, there would not be any negative impacts on the environment, the beneficial environmental (especially in terms of GHG emissions and climate change) and socio-economic outcomes, economic benefit to local and national stakeholders and contribution to a sustainable environment would not happen. With the realization of the Project, annual amount of electricity to be generated by the Project is estimated as 99,745.6 MWh/year. Within this regard, based on the Turkish National Electricity Grid Emission Factor (0.6488 t CO₂/MWh) defined by the Turkish Ministry of Energy and Natural Resources, 64,714.95 tonne CO₂/year of GHG emissions will be avoided in annual basis in the energy sector with the realization of the Project. However, considering that the Project area has been designated as YEKA and set aside for such projects, the Project area would still be used for other renewable energy projects of other companies if the "No Project" option was chosen.

2.5 Land Use

The total land use area in Gaziantep Province is 680,356,47 hectares. Of the total area 64% is agricultural areas, 31% is semi-natural areas, 4% is artificial areas and 1% is wetlands.

The latest information available on land use of Gaziantep is based on the 2018 data of CORINE Land Use Classification System. The distribution of land use of Gaziantep according to the latest data available is provided in the figure below.

In Gaziantep, forest, semi-natural, and agricultural areas comprise almost all of the land.

According to the 2018 data from the CORINE Land Use Classification System, Şahinbey's land use distribution is provided in the figure below.

² https://www.solarfeeds.com/mag/csp-and-pv-differences-comparison/



¹ https://www.sciencedirect.com/topics/earth-and-planetary-sciences/solar-energy-technology

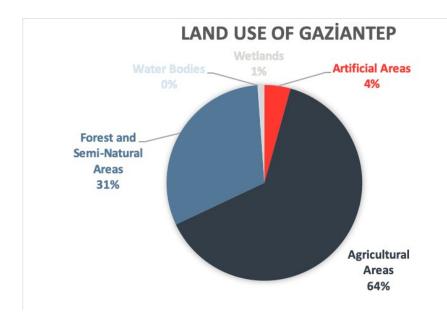


Figure 10: Land Use of Gaziantep

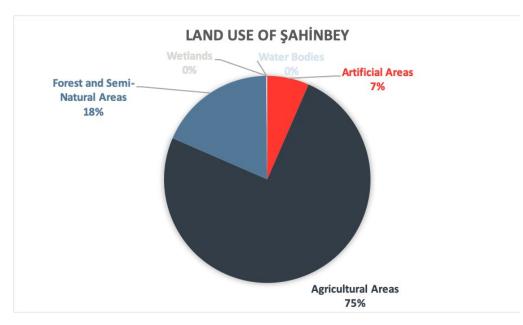


Figure 11: Land use of Şahinbey

In Şahinbey, agricultural areas make up most of the land, indicating agriculture's predominance.

2.6 **Project Schedule**

A summary of the Project schedule is presented below. According to the schedule, the construction period of the Project is estimated to be 8 months and the overall operational period is estimated as 30 years.

Activity	Start Date	Finish Date
Permitting		
Ministry Approval of Design	15-Jan-23	17-Feb-23
Construction Permit	19-Aug-23	21-Aug-23
Final Delivery Acceptance Certificate Application & Issuance	07-Oct-23	11-Oct-23
The signing of the YEKA Contract	01-Jul-21	-
Master Plan Approval	14-Apr-22	01-Jul-23
EMRA (EPDK) Pre-License Approval	01-Jul-22	21-Jul-22
Base Plan Approval of the Site	01-Apr-22	25-May-22
Environmental Impact Assessment Approval	01-Mar-22	25-Nov-22
Signing TEİAŞ Connection Agreement	16-Nov-22	19-Apr-23
Transfer of Land Ownership	18-Nov-22	18-Aug-23
Land Allocation Approval	21-Jul-23	20-Sep-23
Electricity Generation License Approval	19-Aug-23	28-Aug-23
Baseline Studies (Physical Measurements & Biodiversity Monitoring)	01-May-23	30-Jun-23
Engineering	06-Sep-22	26-Aug-23
SPP Engineering	28-Sep-22	24-Jun-23
Substation Contracting & Engineering	06-Sep-22	01-Jul-23
OHTL Contracting, Engineering	04-Oct-22	31-Mar-23
CCTV & Lighting Engineering	24-Jul-23	26-Aug-23
Procurement	09-May-23	24-Nov-23
Early Works	24-Jul-23	03-Sep-23
Earthworks on Site Surface	24-Jul-23	15-Aug-23
Reptile & Mammal Burrow Monitoring Prior to Earthworks	24-Jul-23	20-Aug-23
Mobilization Works	05-Aug-23	03-Sep-23
Construction	27-Jul-23	05-Feb-24
Solar System	27-Jul-23	05-Feb-24
Substation	01-Aug-23	08-Dec-23
OHTL	09-Nov-23	08-Dec-23
Test & Commissioning & Provisional Acceptance	11-Sep-23	17-Feb-24
Test & Commissioning & Provisional Acceptance		
Final Acceptance & Commercial Operation of SPP	-	17-Feb-24
	- 11-Sep-23	17-Feb-24 17-Feb-24
Final Acceptance & Commercial Operation of SPP		

Figure 12: Project Schedule

3.0 IMPACT ASSESSMENT SUMMARY

In order to assess the environmental and social impacts of the Project, an Environmental and Social Impact Assessment Report has been prepared with the following objectives:

- Identification and assessment of environmental and social impacts, both adverse and beneficial, in the Project's area of influence,
- Evaluation of the main environmental and social risks and potential impacts of the Project,
- Presentation of Environmental and Social Management and Monitoring Plan (ESMMP), Environmental and Social Management System (ESMS), Stakeholder Engagement documentation, and grievance mechanism (GM) in line with the Equator Principles (EP) 4 and IFC Performance Standards (PSs),
- Description of the management, mitigation, monitoring and compensation measures, including the ESMS, the ESMMP, and the thematic action or management plans,
- Cumulative impact assessment (CIA) (as required by the EP 4 and IFC PSs),
- Assessment of associated facilities,
- Main components of the assessment include:
 - The potential environmental and social impacts of the Project throughout the full life cycle,
 - A public consultation to ensure that local communities and other key stakeholders are informed of the Project and have an opportunity to express their opinions concerning the Project,
 - Proposed mitigation activities to minimize adverse environmental and social impacts,
 - The nature and significance of residual impacts (those adverse impacts that occur after mitigation has been applied) and ongoing monitoring and management plans to address them,
 - The nature and significance of cumulative impacts.

The ESIA Report aims to assess the environmental and social impacts of all Project sections as a whole.

First key step in the ESIA process was the preparation of the gap analysis to identify gaps in the national EIA Report and existing documentation provided by the Client with respect to the relevant international standards, and to suggest actions to address these gaps. The overall objective of the study was to review existing technical documents, reports and studies to evaluate the possibility of using the already available data in the preparation of the international ESIA.

An additional step of the ESIA preparation has been the review of supplementary documentation that has become available with the progress of the Project design. The review of the documentation has allowed the ESIA team to complete the gap analysis of the existing data and information as well as defining the methodology and structure of the ESIA and related documents.

Baseline information to be used in the ESIA is obtained from the Project specific social and environmental baseline studies that have been initiated during Gap Analysis process and carried out as part of the ESIA, utilising both desktop study and field-based approaches. These studies have been compiled through specifically commissioned surveys, collated from a range of sources including publicly available information and through consultation. Relevant information used to support the assessment process is referenced in the relevant sections of the ESIA.

Baseline field studies conducted in the scope of the Project are given below:

- 7th-9th of June 2023 by a team of social experts led by a WSP Türkiye Senior Social Specialist Elçin Kaya for the social baseline and social components of the impact assessment study.
- 9th-10th of May 2023 by the expert botanist Prof. Dr. Hayri Duman from Gazi University (Faculty of Science, Dpt. Biology), herpetologist Ass. Prof. Dr. Onur Candan from Ordu University (Faculty of Science, Dpt. Biology), fauna expert Şafak Bulut drom Hitit University (Faculty of Science, Dpt. Biology), and Çağrı Tekatlı biodiversity specialist of WSP Türkiye

Physical baseline studies namely, air quality, soil quality, groundwater quality and background noise and vibration were carried out by the Client. EHSS pre-construction survey including biodiversity was carried out by the Client on April 12, 2023 and survey report was provided to WSP Türkiye.

The Area of Influence ("Aol") of the Project which a direct or indirect impact on the biological, physical and social components might occur is given in Figure 18.

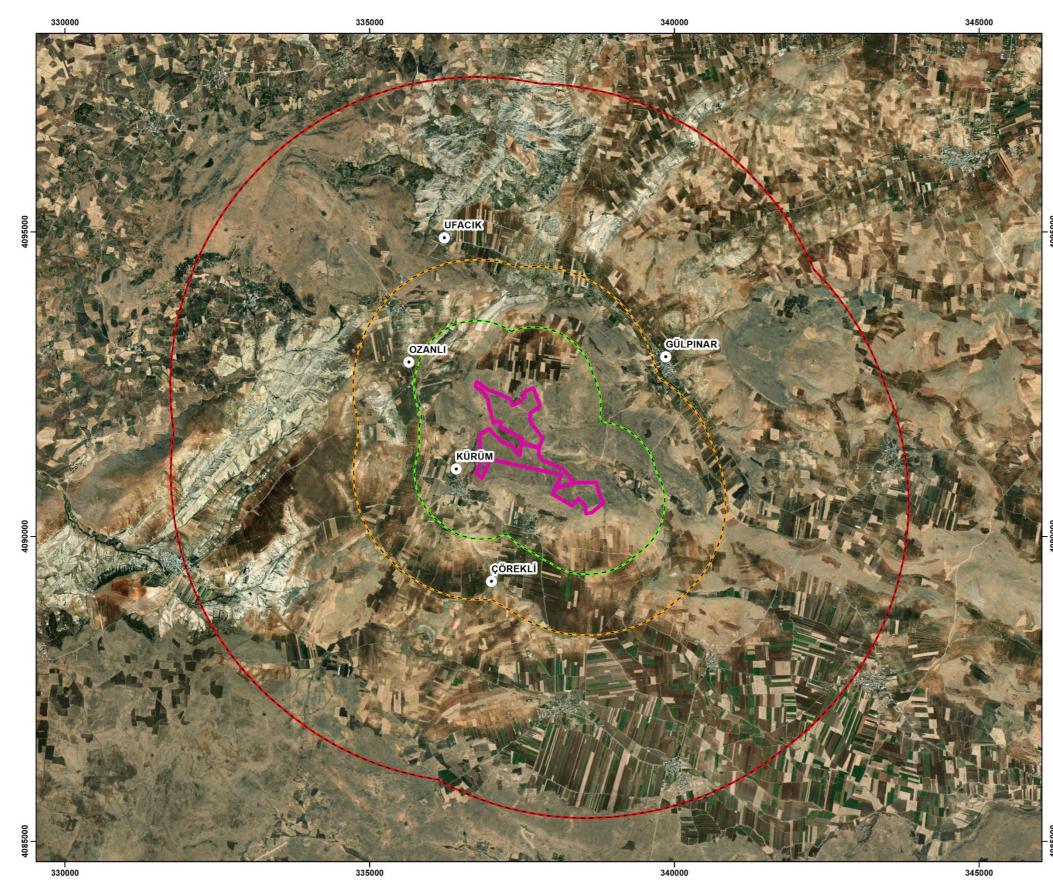
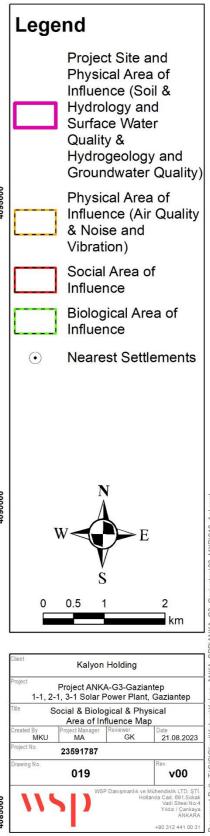


Figure 13: Area of Influence Map of the Project



* ED 50 UTM Zone 37 (N)

Summary of the Impacts and Mitigation&Monitoring Activities

Component	Phase	Project action	Mitigation measures	Monitoring measures
			Social Components	
Population and Demography	Construction	General engineering/construction works;	 Camp Site and Offsite Accommodation Management will be implemented. During the workers' accommodation design and planning process, the Annex I Checklist on Workers' Accommodation provided in the IFC - EBRD Guiding Notes on Workers' Accommodation will be followed to ensure that the document's requirements are met. Accommodation will be fully contained with meals, entertainment, medical clinic. By this way interaction of the workers with local communities will be prevented as much as possible. The potential negative results of the interaction with the community residents will be explained to workers via social induction/trainings. Workers will not need to go into communities and if they pass through communities to get to the site at the beginning and end of their shift, they will be discouraged from interacting negatively with community residents. Priority for the employment opportunities will be given to local residents where applicable, Workers' accommodations will be designed in compliance with the processes and standards of the IFC and the EBRD (2009), and the basic needs of the workers will be provided within the borders of the accommodation to limit the interaction of the workers with the local communities to prevent the pressure on the local utilities and the services, In case of the recruitment of workers outside the local area, cultural awareness training will be provided to workers to prevent any cultural conflicts, Employee Code of Conduct will be applied, The mukhtars of the villages will be informed about the construction of the workers' accommodation, and the workers that will be accommodated in the camps will be registered in the village system (if required), A grievance mechanism will be applied to record any gender-based complaints, and necessary measures will be taken accordingly. 	 Grievances records Stakeholder Engagement and construction Number of the local employees Training records on the Code of Camp Inspection reports Announcement of employment construction
	Operation	Plant/infrastructure operation	 Priority for the employment opportunities will be given to local residents where applicable, In case of the recruitment of workers outside the local area, cultural awareness training will be provided to workers to prevent any cultural conflicts, Employee Code of Conduct will be -applied, A grievance mechanism will be applied to record any gender-based complaints, and necessary measures will be taken accordingly. 	 Grievances records Stakeholder Engagement and complexity Announcement of employment of

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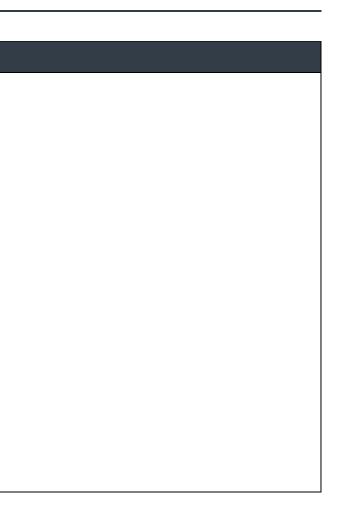
Component	Phase	Project action	Mitigation measures	Monitoring measures
Economy and Employment	Construction	General engineering/construction works;	 The Project will implement human resource policy in compliance with the IFC PS-2 on Labor and Working Conditions. Such policies are expected to provide more predictable employment opportunities for direct and indirect employees, The Project will enhance local employment, and referential employment will be given to qualified local people. Hiring preference criteria will prioritize settlements directly affected by the current activities of the Project, Individuals whose livelihood sources are affected by the Project impacts will be given priority in the recruitment process of the Project, Formal and transparent recruitment process will be implemented to provide equal opportunity to the applicants, The mukhtars of the villages will be informed about the recruitment opportunities of the Project (announcements, banners) to reduce the requirement of the non-local labor force, Where applicable, vocational training will be provided to local people to maximize the local labor force, Before the procurement, local suppliers will be identified, and priority on purchases will be given to goods and services from local businesses, Capacity development will be applied, including the OHS and HR, Equal procurement opportunities will be monitored to prevent child and forced labor through Contractors and suppliers will be monitored to prevent child and forced labor through Contractor Management Plan and Supplier Management Plan, An equal tender process will be applied, Equal pay for equal jobs will be provided to the local and non-local labor forces, Bank accounts will be provided to workers, and payments will be made via these bank accounts, The Worker Grievance mechanism will be implemented. 	 Grievances records Labor Audit Repots Number of local employees
	Operation	Plant/infrastructure operation	 To contribute to regional and global energy security, To be a regional trade center in energy, To consider social and environmental impacts in the context of sustainable development in every phase of the energy chain 	 Annual energy production reco

ecords

	Component	Phase	Project action	Mitigation measures	Monitoring measures
				 The accommodation of the workers will be clean and safe, and it will meet the basic needs of workers, providing minimum amounts of space for each worker; sanitary, laundry and cooking facilities. Overcrowding will be avoided. 	
				 Heating, air-conditioning, and ventilation will be appropriate for the climatic conditions and provide workers with a comfortable and healthy environment to rest and spend their spare time. 	
				 Drinking water to be provided to Project workforce and water to be supplied to food preparation, washing and bathing areas will meet the requirements of the Turkish Regulation Concerning Water Intended for Human Consumption. 	
				Adequate lavatory facilities (toilets, urinals, washbasins, and showers) will be provided for the number of people expected to work in the facility and allowances will make for indicating whether the toilet facility is "In Use" or "Vacant". Toilet facilities will also be provided with adequate supplies of hot and cold running water, soap, and hand drying devices.	
				 First aid and medical facilities as well as provisions for safety against potential hazards (fire, etc.) will be provided at the camp sites. 	
				 Domestic wastewater and waste to be produced at camp sites will be properly managed in line with the requirements of Waste Management Plan. 	
	S			 Workers who accommodate in the camps will be made aware of any rules governing the accommodation. 	
onditions	Labour and Working Conditions			 Project's Grievance Mechanism will provide means to the Project personnel to lodge their complaints. The Client will ensure that the workers are informed of the grievance mechanism at the time of recruitment and make it easily accessible to them. 	 Grievances records
	g C	8 L		The following plans will be implemented:	-
	kin	uctic atio	General engineering/construction works;	Camp Management Plan and Offsite Accommodation Management Plan	 Work contracts in line with 1 Workforce statistics
	Moi	Construction Operation	Plant/infrastructure operation	 Community Health and Safety Plan. 	 Labor Audit Report(s)
	pu	õ		 Security Management Plan 	 Training Records
	ur a			 Labor Management Plan 	g
	abo			 Provide and implement a grievance mechanism for employees and any suppliers. 	
	-			 Ensure employees and any suppliers have access to human resources policies. 	
				 Ensure employees are aware of their rights to join local trade unions. 	
			 Undertake independent audits and inspections. 		
			The Client will implement Human Resources policy which observes wage standards, working hour regulation, freedom of association and staff encouragement. The policy will also eliminate child and forced labor, discrimination on the basis of religion, language, gender or social status, bullying and harassment.		
			 Workers will be provided with information including, but not be limited to, entitlement to wages, hours of work, overtime arrangements and overtime compensation, and any benefits (such as leave for illness, maternity / paternity, or holiday). 		
				 All workers will be able to join trade unions of their choice and have the right to collective bargaining. 	
				 Contracts will be verbally explained to all workers where this is necessary to ensure that workers understand their rights prior to any employment contract to be signed. 	
				 Wages, benefits and conditions of work offered will be comparable to those offered by equivalent employers in Gaziantep and same sector. 	
				The Project and all contractors will put in place a formal worker grievance mechanism.	

n Turkish Law and the IFC PS2.

Component	Phase	Project action	Mitigation measures	Monitoring measures
Land Use (Livelihoods and Land Access Restrictions)	Construction	General engineering/construction works;	 Economic displacement impacts will be minimized during the design phase of the Project. Community Development Plan will be prepared and implemented to bridge the gaps between Turkish Expropriation Law and IFC PS-5. Vulnerable people that will be affected by the land acquisition will be determined and specific assistance will be provided including transportation and legal. During the recruitment process priority will be provided to people who lost their livelihoods as a result of the establishment of the Project. All construction works will be continuing within the borders of the designated areas and in case of an unplanned damage, loss of the affected PAPs will be compensated by the contractors. Community Liaison Officer will be hired and monitor the land acquisition process and collect grievances. Implementation of the Community Development Programs in accordance with IFC requirements to restore the livelihood loss of the residents as a result of the loss of the grazing areas. Grievance mechanism will be -applied. Impacts to agricultural and pasture lands will be minimized as far as possible by keeping the Project construction footprint as narrow as possible, and efficiently restoring any damaged areas. Any business losses will be compensated at a full replacement value. Any loss of or damage to crops caused by Project activities will be compensated. During operation it is essential that the water structures, will be regularly inspected and be periodically maintained to ensure proper conveyance of water, avoid stagnation and prevent flooding and damages. Hunting and collection of wild animals will be strictly prohibited within the Project area. A CDP will be developed and implemented and one of the main target groups will be the ecosystem users. 	 Grievances records Monitoring report results



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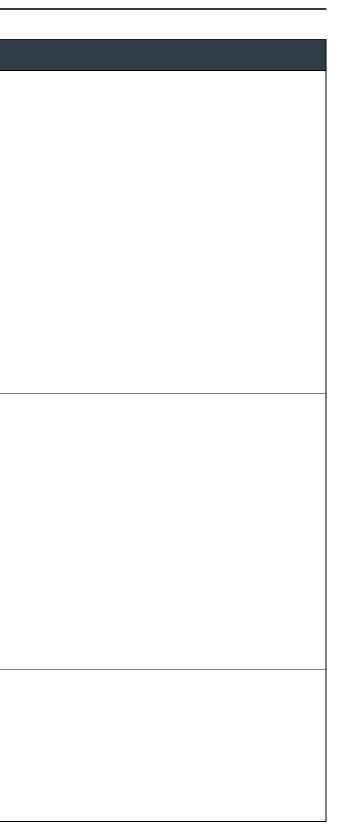
		Changes in the condition of the roads will be monitored regularly, and road improvement works will be carried out, when necessary,
		Fatigue and distraction procedures will be established considering the local legal requirements and the nature of the work.
		Project disclosure activities will include informing communities about the project traffic management controls, planned road closures, blasting activities and grievance mechanisms. Collaboration with local communities and responsible authorities will be ensured to improve signage, visibility, and road safety conditions, especially near the roads and other locations where children may be present.
	•	In SEP of the Project, these information-sharing methods and schedules will be defined.
	-	In order to minimize the particulate matter emission that will occur within the scope of the Project:
	-	The transportation routes to be used will be watered regularly with water sprinklers,
		The removal and laying operations of the materials will be carried out without tossing as much as possible.
	-	Measures defined in Chapter 7 of the ESIA Report and Pollution Prevention Plan will be followed.
	-	All machines to be used under normal operating conditions will not run simultaneously,
	-	Monthly and annual maintenance of machinery and equipment will be done periodically,
	-	Measures defined in Chapter 7 of the ESIA Report and Pollution Prevention Plan will be followed.
	-	Quality spare parts and lubrication products will be used.
	settl to p influ	sidering the expected population influx and the insufficient infrastructure system in some of the ements in the AoI identified in the socioeconomic baseline, mitigation measures have been defined revent the pressure and negative impact on infrastructure and services caused by the population x, especially during the construction phase. Certain negative impacts related to the population influx to the Project on infrastructure and services are as follows:
		The inability of vulnerable groups to equally access social and health services due to supply-demand imbalance,
	-	Population influx due to the Project intensifying health services and decreasing the quality of service,
	-	Delays in responding to emergencies on time,
	-	The emergence of inadequacies due to increased demand for drugs and medical needs.
	of In	population increase may lead increase in communicable and infectious diseases in the Project Area fluence. The following are the essential control measures to be implemented to avoid the spread of municable diseases:
		Pre-employment health screening and regular medical checks of workers per Turkish regulatory requirements,
	•	Regular cleaning principles to be applied in the Project site,
		Community Health and Safety Management Plan should be implemented for the Project that includes medical surveillance,
		Awareness-raising on healthy lifestyles for workers and community-level training.
		All waste or excess material that may be remained due to the activities in the Project area will be disposed of under laws and regulations.
	-	Waste Management Plan and Pollution Prevention Plan will be followed.
	No: the s and	ecurity Management Plan have been prepared in line with the national (Private Security Services Law 5188, 2004) and international (e.g., IFC PS4) standards within the scope of the Project to manage security-related impacts and ensure the security of the activities, assets, work premises at the Project avoid potential impacts on workers and the local community. The following measures will be sidered as a minimum regarding security arrangements:
		Security will be provided at the Project area by third-party company or in-house security personnel with no criminal histories or history of abuse,

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Component Phase	Project action	Mitigation measures	Monitoring measures
		 Security personnel will be trained adequately in their envisaged roles and responsibilities, the use of force (and, where applicable, firearms), and appropriate conduct toward workers and affected communities and the applicable law, 	
		 Security patrols will be done at regular intervals, 	
		 Entry of unauthorized persons will be prevented by using appropriate tools and gadgets. Warning signs about unauthorized entry will be available at various locations at the Project crossings, 	
		 Entry and removal of equipment/material will be controlled at the control points; the movement of equipment/material will be allowed after the approval of the relevant department, 	
		 A grievance mechanism will be in place for the affected communities to express their concerns about the security arrangements and acts of the security personnel, 	
		 Relevant Project officials will continuously accompany the visitors during their stay on the Project site, and all visitors will be recorded, 	
		 All visitors will be given brochures explaining the Project area, site rules and what to do in case of emergencies, 	
		 Personal Protective Equipment will be provided to visitors coming to the Project site, 	
		 All areas that may be dangerous to visitors will be locked, 	
		 All areas that pose a danger at the Project area will be marked with appropriate signs. 	
Operation	Plant/infrastructure operation	 A Traffic Management Plan have been prepared within the scope of the Project to maintain traffic safety on the roads to be used and to prevent the risks which may outcome due to Project activities ensuring "safe site, safe vehicle and safe driver" at all times. Following points will be considered as a minimum regarding traffic management: Referring to Stakeholder Engagement section of this ESIA Report, a continuous stakeholder engagement process and grievance mechanism will be in place: to exchange information on the Project with the local community and other stakeholders; and to record and respond any complaints and concerns raised by the local community members and other stakeholders. Project site will be equipped with suitable and sufficient lighting to ensure sufficient visibility. At all times vehicles will be kept on designated site roads where established. Off-road driving will not be permitted other than emergency situations, or if no roads have been established yet. Parking areas will be designated with signs and reverse parking will be implemented for emergency situations. The routes to be used by pedestrians will be segregated from vehicle routes where possible. The speed limits will be implemented. Project disclosure activities will include informing communities about the project traffic management controls, planned road closures, blasting activities and grievance mechanism. Collaboration with local communities and responsible authorities will be ensured to improve signage, visibility, road safety conditions especially near the roads and other locations where children may be present. Appropriate traffic signs, signals, lights and markings will be placed at the required areas to prevent potential accidents/incidents. Barriers will be placed at the required areas to protect both human 	 Grievance records Stakeholder engagement and a Training records on health topi Traffic accident records Training records on drivers Visual Inspections Monitoring reports results

nd consultation register opics, community awareness and code of conduct

Component	Phase	Project action	Mitigation measures	Monitoring measures
Cultural Heritage	Construction	General engineering/construction works	 Cultural Heritage Management Plan and Chance Find Procedure, which are necessary for the management of the "chance finds", prepared in compliance with the project organization will be implemented. All operators, who are to be engaged in the soil works, and project workers should receive training related to "project requirements, protection of cultural and archaeological heritage, laws and legislations related with the archaeological and cultural heritage and cultural heritage management plan and chance find procedures". In case any chance find is encountered during the construction activities, the further steps should be taken in accordance with the plans and procedures and the relevant bodies, and the Directorate of the Museum will be notified immediately. In cases where any find or information associated with archaeological potential of the site is already discovered, relevant instructions about the sensitivity of the site will be shared with all construction teams a few days before the construction activities. The construction activities will be identified together with the directorate of the museum and the construction teams. Protection of site: chance find should not be moved, removed or further disturbed. In particular, all operators and Project workers assigned to land preparation works should receive training on project requirements, protection of cultural and archaeological heritage, laws and regulations regarding archaeological and cultural heritage. Cultural Heritage Management Plan and Chance Find Procedure; 	 Visual check Site inspection reports Monitoring reports results
Visual Aesthetics	Construction	General engineering/construction works	 After the completion of construction, the areas used as construction area will be returned to their original use. During the construction phase, restricted hours of working will be proposed especially for built up areas. Using machinery during those hours should be avoided in residential properties. The housekeeping of the entire Project Area will be given importance throughout the life of the Project. To minimize light spillage from the site, every effort should be made to minimize the number of lights consistent with health and safety standards. In a similar way, all lights should be shielded and as much as possible pointed to the ground to avoid direct light effects on sensitive receptors around the Project Area. Regular monitoring of the affected people's grievances with regard to visual impacts. For this, the external grievance mechanism should be implemented properly, and all stakeholders should have access to this mechanism. Implementation of dust suppression during construction. 	 Grievance records
	Operation	Plant/infrastructure operation	 The housekeeping of the entire Project Area will be given importance throughout the life of the Project. To minimize light spillage from the site, every effort should be made to minimize the number of lights consistent with health and safety standards. In a similar way, all lights should be shielded and as much as possible pointed to the ground to avoid direct light effects on sensitive receptors around the Project Area. Regular monitoring of the affected people's grievances with regard to visual impacts. For this, the external grievance mechanism should be implemented properly, and all stakeholders should have access to this mechanism. 	 Grievance records



Component	Phase	Project action	Mit	tigation measures	Мо	onitoring measures
Physical Co	omponer	nts				
Physical Co	omponer	Ints General engineering/construction works (i.e., land clearing, ground excavation, cut and fill operations, camp site operations) Material transportation	•	Use of water spraying at construction sites and transportation routes, especially in hot-dry seasons and in windy conditions, Loads in all trucks transporting dust-generating materials will be sprayed with water to suppress dust (keeping the material moist), Ensure loading and unloading without skidding, Use of water suppression for control of loose materials on paved or unpaved road surfaces Completed earthworks will be sealed as soon as reasonably practicable after completion; In case alternative roads are present, construction traffic will avoid passing through the settlements. If unavoidable, necessary measures (i.e., speed limits) will be taken to prevent/minimize transportation related emissions and inform the communities about the activities and schedule; Enforce speed limits and reduce vehicle movements and idling on site; Trucks carrying fine material (excavation soil or fine material, etc.) to the site or from the site will be covered with tarpaulin to prevent dust emissions; Lighting of fire and burning of materials in will be prohibited;	•	Grievances records Air quality monitoring results Regular (daily) visual monitoring Maintenance records of vehicles Warnings/penalties given by pul
	Construction		•	Activities will be conducted trying to use the minimum required number of means at the same time, Transportation distances will be minimized where possible, Vehicle engines and other machinery will be kept turned on only if necessary, avoiding any unnecessary emission; Machinery and equipment will be periodically checked and maintained to ensure their good working condition; All equipment and machinery must be maintained for compliance with standards and technical regulations for the protection of the environment and have appropriate certifications;		
Air Quality	Cons		-	Emergency generator working hours will be recorded and necessary emission measurements will be conducted in case of exceeding 500 working hours in a year. Monthly operating hours of the previous year and the records regarding the amount of gas/fuel consumed in emergency situations and the frequency of the emergency (year/day) will be reported to Provincial Directorate of Ministry of Environment, Urbanization and Climate Change (MoEUCC) until January 31 of each year. Exhaust gas emission arising from the engine land vehicles in traffic will comply with the Regulation on Control of Exhaust Gas Emissions. Vehicles will be subjected to appropriate routine maintenance programs and emission measurements as required by the regulation. The use of vehicles that do not comply with the emission limits will not be permitted until such vehicles will be serviced and re-tested. Emission measurements of heating centers in the construction camps (if any) will be conducted according to Regulation on Control of Air Pollution from Heating if the thermal power is below 1000 kW		
				 Keep stockpiles for the shortest possible time; Consider the prevailing wind direction when siting stockpiles to reduce the likelihood of affecting sensitive receptors; Slow down or cease the dust generating work under strong winds, such as reducing work activities or using water spray to reduce dust dispersion. Minimize material handling and avoid double handling; Where dust levels may still cause a nuisance (despite measures above), water or other control measures may be required as additional measures to control dust. Electric small-scale mechanization and technical tools will be used when available and feasible; Provide PPE to workers on site, such as dust masks where dust levels are likely to be excessive; Minimize the number of the vehicles in this period as much as possible. 		
	Operation	Plant/infrastructure operation	•	Vehicle engines and other machinery will be kept turned on only if necessary, avoiding any unnecessary emission. Vehicles will be periodically checked and maintained to ensure their good working condition. Activities will be conducted trying to use the minimum required number of means at the same time;	•	Maintenance records of vehicles

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les and equipment

Component	Phase	Project action	Mitigation measures	Monitoring measures
		General engineering/construction works	 Selection of equipment with lower sound power levels; 	 Grievances records
		Material transportation.	 Installing silencers for fans; 	 Noise monitoring results
			 Installing suitable mufflers on engine exhausts and compressor components; 	 Maintenance records of vehicles a
			 Installing acoustic enclosures for equipment casting radiating noise; 	 Warnings/penalties given by public
			 Limiting the hours of operation for specific pieces of equipment or operations, especially mobile sources operating through community areas; 	
			 Speed limit applications should be applied throughout site for the Project vehicles that will transport construction materials / equipment; 	
			 Properly refurbished and/or new machinery, equipment and vehicles will be used to the extent possible; 	
	_		 Any component of machinery or equipment, which is thought to generate excessive noise (e.g., a defective muffler, broken or loosely placed engine hood) will be discarded if said components cannot be maintained/repaired and they will be replaced as appropriate; 	
	stion		 Engine covers will be kept closed when the equipment is in operation to minimize noise; 	
ation	Construction		 Workers will be trained in noise abatement best practices, including avoiding unnecessary operation of engines and switching off equipment when it is not required; 	
ibra	ပိ		 Idling of construction vehicles will be avoided; 	
Noise and Vibration			Best management practices (e.g., selection of equipment and work methods) will be used to limit vibration impacts, particularly nuisance vibration. Heightened attention to vibration control will occur when working within 50 meters of residences and other sensitive receptors with high vibration creating equipment. Significant changes to the vibration levels can occur based on the soil conditions and the driving energy of the hammer;	
			 Re-locating noise sources to fewer sensitive areas to take advantage of distance and shielding; 	
			 Reducing the Project traffic routing through community areas wherever possible; 	
			 Developing a grievance mechanism to record and respond to complaints; 	
			 Carrying out the regular maintenance of the construction equipment in order to minimize the possible high noise levels generated by the equipment. 	
			 Performing quarterly monitoring campaigns at the baseline noise measurement locations during the construction phase; and 	
			•	
	uo	Plant/infrastructure operation	 In case of any noise related grievance, noise measurement campaign will be carried out immediately at the area where noise related grievance is received; 	 Maintenance records of vehicles a Noise monitoring results
	Operatic		 Noise levels will be monitored at the receptors where the defined noise limit values are exceeded, at least for a year on monthly basis; and 	 Grievances records
	0		In cases when monitoring results indicate that noise levels are above the defined limits, then noise abatement measures will be implemented (e.g., noise barriers at the source, soundproofing, etc.).	
		General engineering/construction works;	 Project-specific Soil Management and Erosion Control Plan will be implemented. 	 Visual Site inspection
		Material Storage	• To prevent off-site sediment movement, erosion control measures such as drainage channels will be implemented as necessary prior to the start of construction operations.	 Monitoring report results Maintenance records of vehicles a
		Accommodation and management of the workforce	 Wherever possible, land preparation and construction activities shall be re-scheduled during extreme weather conditions to avoid risk of erosion. 	 Grievances records
Subsoil	ction		 Subsoil removal studies will be completed in compliance with the Regulation on Control of Excavated Soil, Construction and Demolition Wastes issued on March 18, 2004 at Official Gazette no: 25406 and other international practices. 	 Waste disposal records Records of the contractual agreem
Soil and S	Construction		 Subsoil loss will be minimized with appropriate equipment, plan, procedure, and schedule. Also, unnecessary soil stripping will not be carried out during construction activities to minimize disturbance to vegetation, ground species and soils. 	
Ň			Bedding, padding, backfilling, and aggregate materials will be purchased from licensed quarries.	
			Excess excavated material will be disposed at licensed storage/recycling facilities as required by the Regulation on Excavation, Construction and Demolition Wastes issued on March 18, 2004 at Official Gazette no.25406. In case a licensed facility cannot be found, the Client will identify parcels, for which usage rights will be obtained from the respective right holders as per the requirements of the applicable legislation. Environmental and social assessment studies as per Management of Change Procedure will be implemented during selection and entry to the off-site excavated material storage	
		I	- recease min be implemented during sciencer and entry to the on-site excavated matchal storage	l

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Component	Phase	Project action	Mit	igation measures	Monitoring measures
				sites. Criteria such as selecting brownfields, that are not used for agricultural or grazing purposes and having a sufficient distance to settlement areas and will be considered in the selection of excavated material storage sites	
			•	Project-specific Pollution Prevention Plan and Waste Management Plan will be implemented to ensure that the amount of release and spills can be taken under control before reaching substantial amounts that may potentially affect the quality of soil.	
			•	The areas, where the hazardous materials (chemicals, liquids etc.) storage tanks located (i.e., hazardous material storage areas), will be designed and constructed to avoid potential contamination into the soil (paved areas with sufficient secondary containment, proper drainage systems, storage as per Material Safety Data Sheet (MSDS) requirements etc.). Also, the Project will comply with relevant legal and project safety requirements to avoid leakages from hazardous materials (chemicals, liquids etc.) storage facilities on-site;	
			•	The temporary waste storage areas will be constructed based on the requirements listed in the Regulation on Waste Management issued on April 02, 2015 Official Gazette no: 29314 and GIIP.	
				The area will be separate from the facilities and buildings, away from human traffic.	
				There will be a suitable space for the licensed vehicles to receive the wastes.	
				 Storage area will have all kinds of precautions against possible fires and spills (fire extinguisher, spill kit, etc.). 	
				 Hazardous wastes and non-hazardous wastes will be stored separately, having different entrance doors. 	
				In order to protect the compartment where hazardous waste will be stored from precipitation, the top and four sides will be covered. The compartments where non-hazardous wastes will also be covered from precipitation.	
				Storage area will be closed, the entrance door will be lockable (kept locked) and the authorized the staff will have the keys.	
				The contact information of the personnel in charge of the waste storage area and warning signs will be posted at the temporary storage areas.	
				 Adequate drainage system will be provided to collect any leakages. 	
				The floor will be covered with concrete, the edges of the floor will be raised with concrete walls/parapets for hazardous waste compartment.	
				In order for the concrete to be impermeable; cured concrete with a minimum thickness of 25 cm will be applied or the concrete to be used for this purpose will be in C30 (STS) standard. If this condition is not met, impermeability will be ensured by laying a of at least 1 mm between the concrete and the soil floor.	
				 Wastes will be stored separately from each other, in tanks and containers. Labels indicating the type of waste will be placed for each type of waste. 	
				Removal of wastes will be ensured inappropriate frequencies so that storage capacities at the temporary waste storage areas/storage compartments are not exceeded. Hazardous wastes (except medical waste) will be temporarily stored at the waste storage areas for a maximum duration of 6 months and non-hazardous waste for a maximum duration of one year.	
			•	Industrial Waste Management Plans for all temporary waste storage area established by EPC and its-subcontractor (including hazardous and non-hazardous waste) will be submitted to the relevant Provincial Directorate of MoEUCC as per the format defined by the MoEUCC.	
			•	Temporary Waste Storage Permit will be obtained from the related Provincial Directorate of MoEUCC for temporary waste storage sites at the site generating hazardous waste of more than 1,000 kg per month.	
			•	Hazardous Materials and Hazardous Waste Compulsory Liability Insurance will be executed as per the relevant provisions of the Regulation on Waste Management for the hazardous waste temporary storage areas/containers regardless of the amount of hazardous waste stored;	
			•	Waste reuse/recycling/recovery/disposal agreements with the Municipality and licensed recovery/disposal -companies will be executed for the management of hazardous and non-hazardous waste.	
			•	Official waste declarations for all waste generated will be submitted to the online system of MoEUCC, starting from January each year until the March at least.	
			•	Waste storage out of the designated storage areas will be prohibited. Wastes generated in the interim storage areas will be transferred to the temporary storage area;	

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Component	Phase	Project action	Mi	tigation measures	Мо	onitoring measures
			•	Regular maintenance of vehicles and machinery/equipment will be undertaken to ensure that leakages of oil/fuel or any other hazardous material is prevented;		
			•	Impervious (concrete etc.) surfaces will be designated for the refueling and maintenance of the machinery/vehicles. If it is not possible according to the nature of the Project, all refueling tankers and all heavy machinery used at the site will have drip trays, and these trays will be placed under the pipe connection points to prevent accidental leakage to the soil during refueling operations;		
			-	Generators will be equipped with drip trays and to be checked regularly to prevent soil contamination;		
			•	Secondary containments, ponds and drip trays will be checked regularly, especially during extreme weather conditions;		
			-	Portable spill containment and clean-up materials (spill kits) will be made available and easily accessible at the construction site, instructions on how to use spill containment and clean-up materials will be included in the kits;		
			-	Training on spill response, use of containment and clean-up material (spill kits) will be provided to works (including the subcontractor workers);		
			-	In case of a spill/leakage incident on-site, contamination levels will be identified by means of sampling and analyses studies to be conducted by accredited laboratories and the results will be compared with baseline concentrations of the related parameters to plan corrective actions where necessary;		
			-	Pumps and transmixers will be washed only at the concrete plants, concrete slurry will not be discharged into environment;		
			-	Accidental spills and leakages will be managed through implementation of the Emergency Preparedness and Response Plan.		
			•	Project-specific Pollution Prevention Plan will be implemented for the management of sewage wastewater and implemented during the construction and operation phases of the Project.		
			•	A leakproof report of the septic tanks will be ensured and necessary measures will be taken to prevent them from deforming in extreme weather conditions.		
		Plant/infrastructure operation	-	Project-specific Pollution Prevention Plan and Waste Management Plan will be implemented to ensure that the amount of release and spills can be taken under control before reaching substantial amounts that may potentially affect the quality of soil.		Visual Site inspection Monitoring report results
			-	The areas, where the hazardous materials (chemicals, liquids etc.) storage tanks located (i.e., hazardous material storage areas), will be designed and constructed to avoid potential contamination into the soil (paved areas with sufficient secondary containment, proper drainage systems, storage as per Material Safety Data Sheet (MSDS) requirements etc.). Also, the Project will comply with relevant legal and project safety requirements to avoid leakages from hazardous materials (chemicals, liquids etc.) storage facilities on-site;	-	Maintenance records of vehicle Grievances records Waste disposal records Records of the contractual agr
			•	The temporary waste storage areas will be constructed based on the requirements listed in the Regulation on Waste Management issued on April 02, 2015 Official Gazette no: 29314 and GIIP.		
				The area will be separate from the facilities and buildings, away from human traffic.		
				 There will be a suitable space for the licensed vehicles to receive the wastes. 		
	Operation			 Storage area will have all kinds of precautions against possible fires and spills (fire extinguisher, spill kits, etc.). 		
	Ope			 Hazardous wastes and non-hazardous wastes will be stored separately, having different entrance doors. 		
				In order to protect the compartment where hazardous waste will be stored from precipitation, the top and four sides will be covered. The compartments where non-hazardous wastes will also be covered from precipitation.		
				 Storage area will be closed, the entrance door will be lockable (kept locked) and the authorized the staff will have the keys. 		
				 The contact information of the personnel in charge of the waste storage area and warning signs will be posted at the temporary storage areas. 		
				 Adequate drainage system will be provided to collect any leakages. 		
				The floor will be covered with concrete, the edges of the floor will be raised with concrete walls/parapets for hazardous waste compartment.		
				In order for the concrete to be impermeable; cured concrete with a minimum thickness of 25 cm will be applied or the concrete to be used for this purpose will be in C30 (STS) standard. If		

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Component	Phase	Project action	Mit	igation measures	Monitoring measures
				this condition is not met, impermeability will be ensured by laying a membrane of at least 1 mm between the concrete and the soil floor.	
				 Wastes will be stored separately from each other, in tanks and containers. Labels indicating the type of waste will be placed for each type of waste. 	
				Removal of wastes will be ensured in appropriate frequencies so that storage capacities at the temporary waste storage areas/storage compartments are not exceeded. Hazardous wastes (except medical waste) will be temporarily stored at the waste storage areas for a maximum duration of 6 months and non-hazardous waste for a maximum duration of one year.	
			•	Industrial Waste Management Plans for all temporary waste storage area established by contractors (including hazardous and non-hazardous waste) will be submitted to the relevant Provincial Directorate of MoEUCC as per the format defined by the MoEUCC.	
			•	Temporary Waste Storage Permit will be obtained from the related Provincial Directorate of MoEUCC for temporary waste storage sites at the site generating hazardous waste of more than 1,000 kg per month.	
			•	Hazardous Materials and Hazardous Waste Compulsory Liability Insurance will be executed as per the relevant provisions of the Regulation on Waste Management for the hazardous waste temporary storage areas/containers regardless of the amount of hazardous waste stored;	
			•	As per the Circular entitled 'COVID-19 Measures for the Waste Management of Single Use Masks, Gloves and Other Personal Hygiene Materials';	
				 Masks, gloves and other personal hygiene material wastes generated at the offices, dormitories and work sites will be collected separately. 	
				 Waste bins will be placed at the entrances and exits of the office buildings, dormitories, cafeterias and at common areas across the accommodation facilities and work sites. 	
				The waste bins will be labelled explicitly.	
				Waste bags will not be mixed with other wastes and the waste bags will be transported to a designated temporary storage area by securing them in a second bag via tightly closing.	
				The wastes will be kept at designated temporary storage areas out of reach of other people and animals for at least 72 hours and then will be delivered to the municipality to be managed under 'other' domestic waste category.	
				The temporary waste storage areas will be kept closed at all times and secured appropriately.	
				The wastes generated in potential site quarantine/isolation units and at the site infirmaries will be managed as 'medical waste' and wastes generated from these areas will not be mixed with other wastes.	
			•	Waste reuse/recycling/recovery/disposal agreements with the Municipality and licensed recovery/disposal firms will be executed for the management of hazardous and non-hazardous waste.	
			-	Official waste declarations for all waste generated will be submitted to the online system of MoEUCC, starting from January each year until the March at least.	
			•	Waste storage out of the designated storage areas will be prohibited. Wastes generated in the interim storage areas will be transferred to the temporary storage area;	
			•	Regular maintenance of vehicles and machinery/equipment will be undertaken to ensure that leakages of oil/fuel or any other hazardous material is prevented;	
			•	Impervious (concrete etc.) surfaces will be designated for the refueling and maintenance of the machinery/vehicles. If it is not possible according to the nature of the Project, all refueling tankers and all heavy machinery used at the facility will have drip trays, and these trays will be placed under the pipe connection points to prevent accidental leakage to the soil during refueling operations;	
			•	Generators and any equipment containing chemicals will be placed in localized bunded & kerbed areas for containment of drainage, spillages and leaks in order to minimize contaminated water routed to the drains.	
			•	Secondary containments, ponds and drip trays will be checked regularly, especially during extreme weather conditions;	
			•	Portable spill containment and clean-up materials (spill kits) will be made available and easily accessible at the facility, instructions on how to use spill containment and clean-up materials will be included in the kits;	
				Training on spill response, use of containment and clean-up material (spill kits) will be provided to works;	
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Component	Phase	Project action	Mit	igation measures	Monitoring measures
			•	In case of a spill/leakage incident on-site, contamination levels will be identified by means of sampling and analyses studies to be conducted by accredited laboratories and the results will be compared with baseline concentrations of the related parameters to plan corrective actions where necessary;	
			-	Accidental spills and leakages will be managed through implementation of the Emergency Preparedness and Response Plan.	
Hydrology and Surface Water	Construction	Project action General engineering/construction works; Accommodation and management of the workforce	•	 In case of a spil/leakage incident on-site, contamination levels will be identified by means of sampling and analyses studies to be conducted by accredited laboratories and the results will be compared with baseline concentrations of the related parameters to plan corrective actions where necessary; Accidental spills and leakages will be managed through implementation of the Emergency Preparedness and Response Plan. The project will comply with safety requirements to avoid leakages from hazardous chemicals/materials and liquids (diesel fuel, oil etc.) stored on-site. The areas where the diesel/fuel storage tanks are located (can be named hazardous material storage areas), will be designed and constructed to avoid potential contamination of the soil (paved areas with sufficient secondary containment, proper drainage systems, collection ponds etc.). The temporary waste storage areas will be constructed based on the requirements listed in "Regulation on Regular Storage of Wastes" issued on <i>Official Gazette</i> No:27533, Dated: 26/03/2010 (Amended: OG-24/06/2022-31876) and "Regulation on Waste Management" issued on <i>Official Gazette</i>, Dated: 02/04/2015, No: 29314 (Amended: OG-23/03/2017-30016). Considering the flooding risk, the following engineering studies were taken into account during the project design phase. By adding the reinforced concrete structure under the fences, the safety of the work site improved by increasing the height of the security fence, and the site was protected from flood and surface water. The foundation of the inverter station was raised 60 cm from the ground level against the risk of water rising. The infrastructure of the inverter station and discharged with the help of a pump. The manhole cover located at the entrance of the foundation of the inverter station is manufactured as leakproof. Waterproofing is provided with XPS Board and Membrane insulation material	Monitoring measures I Incident/accident reports Monitoring report results Visual Site inspection
				 Diversion of external 'clean' runoff around the construction area to prevent mixing of 'clean' and 	
				'dirty' runoff and reduce the size of the required sediment basins.	
				 Conveyance of all 'dirty' runoff to the proposed sediment basins. Establishment of barrier fences and/or markings to determine the extent of the structure/work 	
				 area that may be damaged. Limitation of exposure to the soil and the minimum amount of deterioration required for the 	
				construction.	
				 Covering and protection of degraded fertile ground with soil, vegetation, mulch or erosion- resistant material. 	



Component	Phase	Project action	itigation measures	Monitoring measures
			 Collection and management of polluted water (if any generated by accidental leakages) in order to prevent mixing with any water body. 	r
			Protection of existing drainage and irrigation channels, sediment barriers, green area protection strips, such as drains, and drainage and erosion control pits by taking appropriat measures.	
			Collection and settlement of drainage from excavations to remove suspended materials prior to discharge in accordance with required permits. Construction of local perimeter drains aroun working areas to collect suspended runoff and direct it to a system of settlement basins before discharge following required permits, where practicable.	t l
			 Regular inspection and maintenance of all structures and facilities to ensure proper and efficient operation, especially after heavy rainfall. Removing sediment deposits and disposing of the either by spreading them on site (if uncontaminated) or at a suitably licensed facility. 	
			 Training workers (including subcontractor workers) on spill response, use of containment an clean-up materials (spill kits). 	1
	Operation	Plant/infrastructure operation	The project will comply with safety requirements to avoid leakages from hazardou chemicals/materials and liquids stored on-site. The temporary waste storage areas will be constructed based on the requirements listed i "Regulation on Regular Storage of Wastes" issued on <i>Official Gazette</i> No:27533, Dated: 26/03/201 (Amended: OG-24/06/2022-31876) and "Regulation on Waste Management" issued on <i>Officia Gazette</i> , Dated: 02/04/2015, No: 29314 (Amended: OG-23/03/2017-30016). Leak-proof quality septic tanks will be provided for the collection of the generated domest wastewater. Collected wastewater will either be collected by vacuum trucks and disposed of at the nearest licensed WWTP as per the agreements/protocols to be executed with the related	 Monitoring report results Visual Site inspection
		General engineering/construction works;	municipalities/licensed companies or to the main campsite package WWTPs. Treatment, storage, and disposal should be done according to regulatory requirements after	r Groundwater monitoring result
		Material Storage Accommodation and management of the workforce	performing the necessary analyses and obtaining relevant permits. Regarding the risk of heavy rainfall and flooding, a reinforced concrete structure was added under the fences and the Inverter station to increase the height and protect the site from flooding and surface water. In addition, the infrastructure of the Inverter station was designed to prevent surface and rainwater infiltration, and impermeable insulation materials were selected for the concrete foundation.	 Incident/accident reports Monitoring report results Visual Site inspection
ter			Safe Fueling and Gasoline Handling Guidelines will be developed in the construction areas. N fueling of vehicles or equipment will take place within excavated areas. If heavy equipment cannot be moved to appropriate fueling points, an impervious surface (such as a drip-tray) will be used for refueling this equipment to prevent accidental releases to groundwater aquifers.	t
logy and Groundwa	Construction		Hazardous materials will not be stored in excavated areas and all handling of all hazardous materia will be in accordance with the Control of Substances Hazardous to Health Procedure. Thes procedures will be in line with Environmental, Health, and Safety (EHS) Guidelines: Environmenta Hazardous Material Management (IFC, 2007). As an example, secondary containment structures w consist of berms, dikes, or walls capable of containing the larger 110 percent of the largest tank of 25 percent of the combined tank volumes in areas where hazardous materials are handled (e.g., fur stores and loading areas, concrete mixing, hazardous material stores) to prevent hazardou materials entering the site drainage.	e
Hydrogeology			An Emergency Response Plan (ERP) will be developed in line with Environmental, Health, an Safety (EHS) Guidelines: General EHS guidelines (IFC, 2007) for handling spills of hazardou materials including fuels that will be handled during construction works. The specific items in the management plans will address the measures below related to groundwate	5
			 and protection: Preventing the discharge of untreated wastewater, residues or other waste into groundwater of the second sec	
			 surface water. Controlling and avoiding wastewater flows from any field activities (i.e., excavations, an vehicle/equipment washing). 	Ŀ
			 Collecting and managing contaminated water (if any generated as a result of accident leakages) in order to prevent mixing with any water body and topsoil/soil pollution. 	1
			 Assuring the maintenance of vehicles and equipment (if necessary) in designated areas with impermeable surfaces (concrete floors, etc.) and if necessary, secondary containment system 	

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Component	Phase	Project action	Mitigation measures	Monitoring measures
			 Making portable spill containment and clean-up materials (spill kits) available and easily accessible at the construction site, including instructions on how to use spill containment and clean-up materials. 	
			 Training workers (including subcontractor workers) on spill response, use of containment and clean-up materials (spill kits). 	
			 Providing adequate and properly maintained tanks, paved ground, spill containment materials and proper secondary containment systems with sufficient volume for fuel/oil storage and for the storage of other fluids and hazardous substances to prevent loss to the soil. 	
		Plant/infrastructure operation	 The project will comply with safety requirements to avoid leakages from hazardous chemicals/materials and liquids stored on-site. The temporary waste storage areas will be constructed based on the requirements listed in 	 Groundwater monitoring results Incident/accident reports
	Operation		"Regulation on Regular Storage of Wastes" issued on Official Gazette No:27533, Dated: 26/03/2010 (Amended: OG-24/06/2022-31876) and "Regulation on Waste Management" issued on Official Gazette, Dated: 02/04/2015, No: 29314 (Amended: OG-23/03/2017-30016).	Monitoring report resultsVisual Site inspection
	Ğ		Leak-proof quality septic tanks will be provided for the collection of the generated domestic wastewater. Collected wastewater will either be collected by vacuum trucks and disposed of at the nearest licensed WWTP as per the agreements/protocols to be executed with the related municipalities/licensed companies or to the main campsite package WWTPs.	
		General engineering/construction works;	 Referring to Stakeholder Engagement section of this ESIA Report, a continuous stakeholder engagement process and grievance mechanism will be in place: 	 Visual inspection
		Material Storage	 to exchange information on the Project with the local community and other stakeholders; and 	 Monitoring report results Maintenance records of vehicles
			 to record and respond any complaints and concerns raised by the local community members and other stakeholders. 	 Grievances records
			 Considerations will be given to traffic volumes at the rush hours of the day and transportation of equipment and materials will be utilized at quieter periods to avoid increased congestion on the roads used by the local communities. 	 Traffic accident records Training records on drivers
			It will be ensured that the roads will be made suitable for the heavy vehicle use by taking necessary permits and making necessary arrangements. In case of any damage on the roads, necessary maintenance works will be undertaken.	
			 Project site will be equipped with suitable and sufficient lighting to ensure sufficient visibility. 	
			 At all times vehicles will be kept on designated site roads where established. Off-road driving will not be permitted other than emergency situations, or if no roads have been established yet. 	
			 If reversing cannot be avoided at the work areas, necessary reversing procedures will be identified including installing reversing aids on vehicles, reversing sensors etc. Trained banksman will be used when reversing cannot be avoided. 	
Iffic	ruction		 Parking areas will be designated with signs and reverse parking will be implemented for emergency situations. 	
Traff	Construe		The routes to be used by pedestrians will be segregated from heavy vehicle routes where possible. The speed limits will be implemented.	
	0		 The speed limits will be implemented. Seatbelts will be worn in vehicles and machinery when being operated. 	
			 No vehicle/equipment/material will be allowed to enter work areas before obtaining approval from the security. 	
			 Loading areas will be designed appropriately to prevent/minimize vehicle/pedestrian contact and property damages. 	
			 All operators will be licensed/certified for the type of vehicle being driven and will undergo medical surveillance. 	
			 Repair and maintenance of vehicles will be done by the authorized bodies. 	
			 Fatigue and distraction procedures will be established considering the local legal requirements and the nature of the work. 	
			Project disclosure activities will include informing communities about the project traffic management controls, planned road closures, blasting activities and grievance mechanism. Collaboration with local communities and responsible authorities will be ensured to improve signage, visibility, road safety conditions especially near the roads and other locations where children may be present.	
			 Appropriate traffic signs, signals, lights and markings will be placed at the required areas to prevent potential accidents/incidents. Barriers will be placed at the required areas to protect both human health and assets. 	

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Component	Phase	Project action	Mitigation measures	Monitoring measures
	Operation	Plant/infrastructure operation	 Referring to Stakeholder Engagement section of this ESIA Report, a continuous stakeholder engagement process and grievance mechanism will be in place: to exchange information on the Project with the local community and other stakeholders; and to record and respond any complaints and concerns raised by the local community members and other stakeholders. Project site will be equipped with suitable and sufficient lighting to ensure sufficient visibility. At all times vehicles will be kept on designated site roads where established. Off-road driving will not be permitted other than emergency situations, or if no roads have been established yet. Parking areas will be designated with signs and reverse parking will be implemented for emergency situations. The routes to be used by pedestrians will be segregated from vehicle routes where possible. The speed limits will be implemented. Seatbelts will be worn in vehicles and machinery when being operated. No vehicle/equipment/material will be allowed to enter work areas before obtaining approval from the security. All operators will be licensed/certified for the type of vehicle being driven and will undergo medical surveillance. Repair and maintenance of vehicles will be done by the authorized bodies. Project disclosure activities will include informing communities about the project traffic management controls, planned road closures, blasting activities and grievance mechanism. Collaboration with local communities and responsible authorities will be ensured to improve signage, visibility, road safety conditions especially near the roads and other locations where children may be present. Appropriate traffic signs, signals, lights and markings will be placed at the required areas to prevect potential accidents/incidents. Barriers will be placed at	 Visual inspection Monitoring report results Maintenance records of vehicle Grievances records Traffic accident records Training records on drivers
Greenhouse Gas (GHG) Emissions	Construction & Operation	General engineering/construction works; Plant/infrastructure operation	 The Best Available Techniques should be taken into consideration in Project design as much as possible. The applicability of the Best Available Techniques (BATs) developed within the European regulatory framework [i.e., Integrated Pollution Prevention and Control, "IPPC", BAT Reference Documents (BREFs) according to the European Directive 2010/75/EU (IED)] should be evaluated and integrated into the Project design. All employees will be provided climate, resource and energy efficiency awareness training. The most efficient equipment in terms of fuel usage and effective operation will be chosen. Maintenance of all machinery and equipment will be periodically conducted to ensure efficient fuel use and effective operation as well. Efficient resource and material use will be promoted through the development and implementation of a management plans to reduce direct and indirect GHG emissions due to the Project. Other aspects of resource efficiency regarding water usage are covered in Project Description and related impact assessment section. No idling and out-of-scope operation of the machinery and equipment will be allowed. Vegetation cover will not be disturbed if not necessary In order to reduce the GHG emissions resulting from waste disposal processes, amount of wastes generated as a result of project actions will be minimized and generated wastes will be recycled accordingly. During the closure phase, rehabilitation of land will help to recover lost carbon sink by converting the disturbed land to its original state as much as possible, which will act as a long-term mitigation measure. 	 Resource consumption records Records on data resources invol Training records Records on amount of generate Maintenance records of maching

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Component Phase Project action	n Mitiç	gation measures	Monitoring measures
Biological Components			
	portation ge	 Avoldance measures have been considered particularly during the design of the facilities and include minimization of the footprint of individual facilities and utilization of the existing modified habitat for placement of temporary facilities was prioritized as much as possible. Natural vegetation clearance will be limited to the minimum necessary during construction works. For this purpose, limits of temporary and permanent facilities will be clearly signed in order to reduce the risk of footprint creep: In order to minimize the mortality of wildlife species, biological surveys (pre-construction surveys) will be implemented before vegatetation clearance to identify and eventually relocate fauna species. Company's Biodiversity Assistant Specialist will perform pre-construction surveys in the areas to be cleared (not earlier than 7 days before). The survey will focus on fauna species with imited mobility (e.g., mammals and replies) that cannot move ahead of construction. If any of these species are observed, they will be calceled by the 1 Company's Biodiversity Assistant Specialist and translocated to undisturbed but similar sites within the Aol. Reptiles will be caught and moved to a suitable receptor site, no smaller than the capture site and containing the same habitat characleristics and prey availability. It a minimum distance of 50 m fom the Project footprint during construction phase. If essential works are required in winter, when tortois are hibemating, then the works area should be checked carefully for hibemation burrows. If a reptile is found during such works and it is hibemating, it should be carefully moments in a should be taken in to care until it can be released on site, the following spring. The monitoring of the activity of the small mammal species identified as species of conservation concern, in particular of the Golden Hamster (<i>Mesocricetus auratus</i>, EN-Restricted Range), will be performed, through the use of endoscopic came	 Monitoring the presence and construction site at least twide Biodiversity Assistant Special order to avoid the spreading Observation, documenting an identified reptile species of conterrestrial mammal species of peregusna, Rhinolophus methe Aol by photographic evidoresponsible. Accidents involving wildlife of access road or within the consupplementary mitigation mether prevent roadkill will be impleted.

nd spreading of invasive flora species within and around the vice a year during the vegetative season by an Company's cialist and an extirpation campaign by an external expert in ng of the invasive species, if necessary.

and reporting the fauna species, and in particular of the f conservation concern (*Testudo graeca*) and of the identified s of conservation concern (*Mesocricetus auratus, Vormela nehelyi,* and *Rhinolophus euryale*), both within and around vidence by Company's Biodiversity Assistant Specialist

or the observation of live animal or carcasses along the construction site will be recorded. If necessary, neasures to deter wildlife from entering the site and to lemented.

Component	Phase	Project action	Miti	igation measures	Мо	onitoring measures
			•	Areas cleared during construction for temporary use will be restored, as soon as possible, with the goal of producing a stable vegetative cover to minimize erosion, dust deposition and spreading of invasive alien species, and the aim of re-establish the original habitat with a positive impact on biodiversity. Only plants that are native to the region will be used for restoration and habitat rehabilitation. Seeding and planting of grass and shrub species typical of the local flora will be implemented to ensure optimal ground cover. The use of autochthonous adult plants and/or of seeds collected at the shortest distance possible from the restoration sites will be of fundamental importance in order to maximize the success of the translocation operations.		
	Operation	Plant/infrastructure operation	•	 The footprint of individual facilities will be minimised. Utilization of the existing modified habitat for placement of temporary facilities will be prioritized as much as possible. The areas occupied by the new permanent infrastructures will be fenced. Fencing will be modified so that a gap measuring 1 m in length and 10 cm in height from ground level is created every 100 m. This gap will allow animals to move in to and out of the project site, thus maintaining population transfer with populations located in areas outside of the project. All new fences will conform to this design. Non-polarizing white tape can be used around and across panels to minimize reflection, which can attract aquatic insects and possibly birds, as it mimics reflective surfaces of waterbodies. Flora and fauna specific monitoring campaigns within and without the areas occupied by the new permanent infrastructures will be implemented. vehicle movement will be restricted to the existing roads that connect the operation sites with the surrounding areas. Off road driving will be prohibited in order to avoid any unnecessary disturbance of natural vegetation. It is recommended to keep the number of light sources to the minimum; Preferred types of light in exterior lighting (e.g.: lights on site due to security reasons) applications are: Iow pressure sodium lamps (SOX): orange lamps seen along roadsides; Iight triggered by presence detectors, and lights oriented to the ground. These types of lights should be avoided: mercury lamps (MBF): bluish-white lamps (attract insects and tolerant bat species); Iight pressure sodium lamps (SON): brighter pinkish-yellow lamps, used as road lighting The use of non-native flora species, and especially of species classified as invasive alien species must be avoided during rehabilitation/restoration works. If the spreading of invasive species is observed, an appropriate eradicat	•	A floristic and vegetational monif flora species identified as specie <i>Alopecurus utriculatus</i> subsp. <i>G</i> . Company's Biodiversity Assistan Monitoring the presence and spr construction site at least twice a Biodiversity Assistant Specialist order to avoid the spreading of the A terrestrial fauna monitoring, in conservation concern (Testudo g species of conservation concern Company's Biodiversity Assistan Recording the accidents involvin along the permanent access roa infrastructures

conitoring including the presence and abundance of the cies of conservation concern (*Symphytum aintabicum* and *Gaziantepicus*) during the vegetative season by tant Specialist

spreading of invasive flora species within and around the e a year during the vegetative season by an Company's ist and an extirpation campaign by an external expert in of the invasive species, if necessary.

, in particular focusing on the identified reptile species of lo graeca) and on the identified terrestrial mammal ern (Mesocricetus auratus and Vormela peregusna) by tant Specialist.

ving wildlife or the observation of live animal or carcasses roads or in the areas occupied by permanent

Environmental and Social Management System

The ESMS of the Project is developed and under continuous improvement to ensure the appropriate management of environmental and social risks to meet the objectives set by existing Kalyon Enerji policies and directives regarding E&S. Environmental and social management system at all phases is required to meet national, international standards, best practices, and Projects' documents and requirements. Referring to the integrated policies, there are targets to achieve the Projects with zero waste, zero incidents, and full respect for humans including vulnerable groups.

Nine elements of ESMS help to assess, control, and continually improve the E&S performance, The Project ESMP has to comply with these elements.



Figure 14: Map Showing Nearest Settlements to the Project Site Elements of ESMS (IFC, 2015)

The E&S mitigation measures defined in the ESIA process were transposed into a Commitments Register serving as a tool which informs the ESMP as well as the associated ESMS planning and processes to be implemented at the various levels of the Project organization to ensure that the Project requirements, regulations, and standards are met.

Kalyon Enerji has developed a set of ESMPs and procedures consistent with their policies and commitments, addressing the environmental and social impacts and relevant mitigation measures identified in the ESIA for each component. The full set of ESMPs that are prepared and will be implemented for fulfilling the commitments undertaken by the Project are presented in the table below with the relevant IFC PSs that each will contribute to comply with.

Relevant IFC PS	Plans / Procedures		
IFC PS1 5-24: Assessment and Management of Environmental and Social Risks and Impacts	 ESMP Stakeholder Engagement Plan 		
IFC PS2: Labour and Working Conditions	 Human Rights Management Plan Camp Site and Offsite Accommodation Management Plan 		
	 Labor Management Plan Contractor Management Plan Supplier Management Plan 		

Table 3: ESMPs

Relevant IFC PS	Plans / Procedures
IFC PS3: Resource Efficiency and Pollution	 Resource Efficiency Management Plan
Prevention IFC EHS Guidelines	 Pollution Prevention Plan (e.g., air, noise, wastewater, soil, groundwater contamination, hazardous material management, etc.)
	 Waste Management Plan
	 Soil Management and Erosion Control Plan
	 Hazardous Material Management Plan
IFC PS4: Community Health, Safety, and	Traffic Management Plan
Security IFC EHS Guidelines	 Community Health and Safety Management Plan
	 Security Management Plan
	 Emergency Preparedness and Response Plan
IFC PS5: Land Acquisition and Involuntary Resettlement	 Not applicable
IFC PS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources	 Biodiversity Management Plan
IFC PS7: Indigenous Peoples	 Not applicable
IFC PS8: Cultural Heritage	 Cultural Heritage Management Plan and Chance Find Procedure

The ESMPs will be implemented:

- across the Project organization, including, EPC, its sub-contractors, and primary suppliers over which the Client has control or influence.
- inside the Project Area of Influence including the associated facilities (as defined by IFC PS1: "facilities that are not funded as part of the project and that would not have been constructed or expanded if the project did not exist and without which the project would not be viable").

The ESMPs contain the following components:

- Objectives of the document
- Reference to relevant legal requirements
- Roles and responsibilities for implementation
- Links to other management plans, as necessary
- List of management and mitigation measures
- Monitoring and reporting requirements
- Qualitative or quantitative Key Performance Indicators (KPIs) and measures for assessing the effectiveness of the mitigation measures identified during the impact assessment process
- Training and awareness requirements, as needed
- Inspections, audits, and reviews.

Each management plan has a similar structure, but the level of detail and complexity is appropriate to the expected impacts and risks of the Project identified in the ESIA. The mitigation measures identified in the relevant sections of the ESIA are included in each management plan, which will be disclosed to stakeholders in accordance with the SEP.

The ESMPs will be shared with EPC and subcontractors to ensure they develop their own equivalent management plans, procedures, and work instructions that align with the ESMP. Additional mitigation measures specific to their activities will be included as necessary.

4.0 STAKEHOLDER ENGAGEMENT

A Stakeholder Engagement Plan (SEP) is prepared for the Project within the scope of the Environmental and Social Impact Assessment as a public document. The aim of SEP is to organise, record and formalise all engagement and consultation processes with the various stakeholders and corporate their views and concerns and addressed in them in the entire Project life.

Engagement and Disclosure Process

According to IFC PS1, it is necessary to have effective stakeholder engagement to prevent and reduce social risks and to ensure that the Project maintains a long-term social license to operate. Stakeholder engagement plays a crucial role in establishing strong, positive, and responsive relationships, which are essential for effectively managing the environmental and social risks and impacts associated with a project.

The main objective of effective stakeholder engagement is to provide stakeholders with relevant information about the Project's potential environmental and social impacts through transparent disclosure. This helps ensure that stakeholders have accurate perceptions of the proposed development. It also involves consulting with stakeholders to gather their feedback and opinions, as well as providing a mechanism for addressing any concerns or complaints they may have. Stakeholders can be either external or internal to the Client (presumably the organizations involved in the project) and can include individuals or groups who:

- Directly or indirectly affected by the Project,
- Interested in the Project and its activities,
- Able to influence the Project and the expected results.

The stakeholder engagement process helps to:

- identify and involve all stakeholders potentially affected by the Project,
- ensure a good understanding of the Project activities and potential impacts/benefits,
- identify issues early in the Project cycle that may pose risks to the Project or its stakeholders,
- ensure that mitigation measures are appropriate (implementable, effective, and efficient),
- establish a system for long-term and mutual communication between the Project and stakeholders that benefits all parties.

The stakeholder identification process has been performed by the Client supported by Project consultants during direct meetings with authorities, key stakeholders, and representatives of local communities. Detailed information on stakeholder engagement activities performed and planned are presented in the SEP and included:

 Publication of planned activity (which is the legal definition for the project) through regional and local newspapers and the Project website,

- Public hearings in a frame of public discussion procedure,
- Consultations with public authorities at national, regional, and local levels.

The SEP outlines a systematic approach to stakeholder engagement to support the Client in developing and maintaining strong and constructive relationships with the stakeholders and in addressing their concerns about the Project. The SEP and its implementation fall under the Client's responsibility. In particular, the SEP for the construction phase includes:

- provisions for the disclosure to the affected communities of relevant information on:
 - The purpose, nature and scale of the Project,
 - The duration of proposed Project activities,
 - Potential risks/impacts and relevant mitigation measures,
 - The stakeholder engagement process envisaged going forward and,
 - A Grievance Mechanism is consistent with IFC PS1 requirements scaled to the risks and impacts of the project.
- Provisions for a stakeholders' consultation and participation process appropriate for the potentially
 affected communities, their decision-making process and the need to reach/include disadvantaged
 or vulnerable groups,
- Documents to demonstrate how the feedback from stakeholders' consultation and participation has been included in the Client management decision-making process and used to identify specific mitigation measures, as needed,
- The provision of periodic reports to the potentially affected communities to update them on progresses of the implementation of the ESMPs, also addressing eventual grievances received,
- an internal Grievance Mechanism for all employees and contractors and,
- an external Grievance Mechanism with a procedure providing a framework for receiving, recording, and facilitating the resolution of concerns raised by affected communities.

The SEP is considered a living document and will be regularly monitored, reviewed and updated by the Client throughout all stages of the Project implementation to ensure:

- it remains fit for the purpose at each phase of the Project,
- it addresses the outcomes of stakeholders' consultation activities,
- it addresses the grievances received from stakeholders.

The internal communication amongst the various functions and roles and the different Project parties is addressed in the ESMP.

A team was assigned for engagement activities and the grievance mechanism management for the construction phase of the Project.

Project website: kalyonenerji.com

Address: Ehlibeyt Mahallesi Mevlana Bulvarı No:201 Balgat-Çankaya/ANKARA

Hotline: +90 536 271 81 13

e-mail: enerji-iletisim@kalyonenerji.com

For the grievances and the requests related with the Project please contact: Site Social Impact Specialist and CLO Mehmet Yüksekyayla myuksekyayla@kalyonholding.com

For the operation phase of the Project, a separate team will be assigned to perform the stakeholder engagement activities. These activities include identification of stakeholders, update stakeholder list, disclose Project related information, conduct consultation with the target stakeholder groups with the identified tools, manage the external grievances and report to top management periodically.

5.0 GRIEVANCE MECHANISM

5.1 Internal Grievance Mechanism

An internal grievance mechanism has been developed for the Project. All direct and indirect Project workers will follow the procedure. The procedure defines grievances as a statement of dissatisfaction over any condition that allegedly harms the employee. A grievance may relate to matters involving internal communication, responsibilities abuse, abuse in the authority line, race, colour, ancestry, national origin, religion, age, sex, sexual orientation, gender identity, sexual harassment, or disability status.

In case requested, all grievance holders will have the right to remain anonymous and maintain their confidentiality. The client will not disclose any grievance holder's credentials without ensuring their consent first. If such consent is given, only the managers and personnel related to that specific grievance will be informed.

5.2 External Grievance Mechanism

An external grievance mechanism of the Client has been developed for the Project. The external grievance mechanism is a part of the management system, and it is responsive to any concerns and complaints, particularly from affected stakeholders and communities. Special care will be focused on training the designated staff involved in the management of the grievance mechanism. The overarching aim of the grievance mechanism is to provide all stakeholders with the opportunity to obtain information about the Client's activities and facilities, deliver their complaints and requests in a structured and formal manner and receive prompt, fair and effective responses.

Any comments or concerns will be brought to the Company's attention verbally or in writing (by post or e-mail) or by filling in a grievance form. The grievance form will be made available on the Company website, at the Project site, at the Mukhtar's office, alongside a description of the grievance mechanism. Grievance forms can then be submitted to the contact points. All grievances will be:

- Acknowledged within seven working days after receipt; and
- Responded no later than within 30 working days after receipt.

Specifically, nominated, and trained members of staff will record grievance information in a grievance register the information in the grievance register will include the Stakeholder name and contact details and details of the grievance and how and when it was submitted, acknowledged, responded to and closed out.

The grievance mechanism is widely announced to the public with stakeholder meetings held for projectaffected communities. Additional meetings will be organized to target women Project Affected People (PAPs) and vulnerable groups for sharing information on grievance mechanism that also allows anonymous grievances.

Gender equality is observed by the Client. There is a woman environmental engineer in the Project. She will deal with the complaints and demands of women in the Project area. The grievances will be reviewed by the team according to the Project's human rights and grievance mechanism.

Stakeholder request and grievance form of the Project is presented in Appendix A and ESIA Feedback Form is presented in Appendix B.

APPENDIX A

Stakeholder Request and Grievance Form

Kalyon enerji	PAYDAŞ İLETİ	ŞİM FORMU	Dokūman No: Yayın Tarihi: 21.09.2020 Rev No: 00 Rev. Tarihi: -	
İLETİŞİME GEÇEN KİŞİNİN BİLGİLER Bildirimleriniz Proje Yönetimi taraf				
Tarih:				
İrtibat Bilgisi: (Nasıl irtibata geçilm	esini istiyorsanız bun	a göre gerekli l	bilgileri veriniz)	
Posta yolu ile				
Telefonla				
E-posta yolu ile				
Tepkinizi belirtin:	yet		Doldurulmuş İletişim formu suretinin	
Kaydeden: 🗆 Yorum/ şikayeti sunan kişi			alındığını teyit eden imza	
 Diğer (lütfen kim olduğunu belirt 	tin)			
PROJE HAKKINDAKİ YORUMLARINI	Z (Gerekirse savfanır	arka kısmında	n devem edebilirsiniz)	
Yorum/Şikayetinizi tanımlayın (Ger Yorum/Şikayetle İlgili Olay Tarihi				
Tek seferli olay / şikayet (Tarih:)			
 Bir defadan fazla mı oldu (Kaç kez 				
Devam ediyor (Problem halen yaş				
Problemi çözümlemek için ne öner	iyorsunuz? (Gerekirs	e sayfanın arka	ı kısmından devem edebilirsiniz)	
Bu kısım Proje Yönetimi tarafından YORUM DURUMU	doldurulacaktır.			
Yorum Kayıt (E/H)	Sunum tarihi:		Kaydeden:	
Gerekli Tepki (E/H)	Müdahale tarihi:			
ŞİKAYETÇİ DURUMU	1			
Şikayet Kayıt (E/H)	Sunum tarihi:		Kaydeden:	
Cevap Gönderim Tarihi:	Şikayet kapatıldı (E	:/H):	Kapama tarihi ve imzası:	
İrtibat Numarası			0536 271 81 13	

APPENDIX B

ESIA Feedback Form

You can write your questions and opinions about the Environmental and Social Impact Assessment study prepared Project to the following addresses.

ESIA Feedback Form	
Name-Surname	
Address	
Phone Number	
Date	
Concerns, expectations, questions or complaints on the ESIA report	

