

REPORT

Project ANKA - G4-Viranşehir-5,7,8 Solar Power Plant Project, Şanlıurfa

Environmental and Social Impact Assessment - Non-Technical Summary

Submitted to:

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

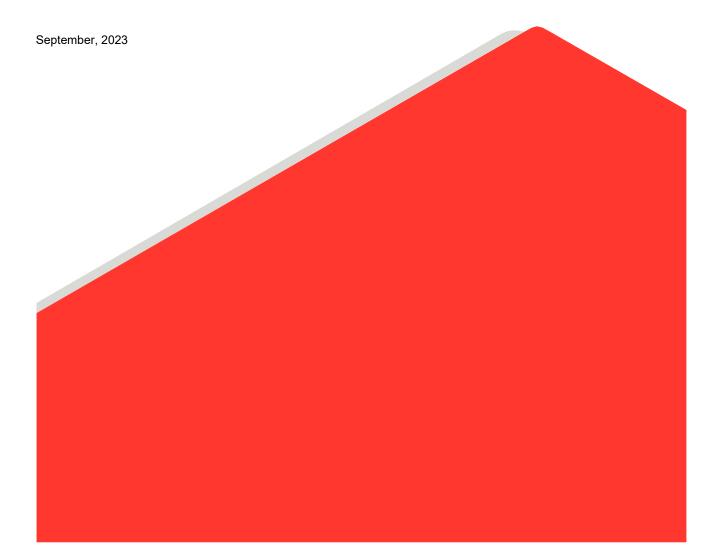
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Table of Contents

1.0	INTRO	DDUCTION		1
	1.1	Project Background		1
	1.2	Project Owner		2
	1.3	Project Parties		2
	1.4	Project Rationale		3
	1.5	The Goal of this Document		4
	1.6	Standards to be Applied in the Project		4
	1.7	Project Categorisation		4
2.0	PROJ	ECT DESCRIPTION		4
	2.1	Project Overview and the Location		4
	2.2	Project Components		9
	2.3	Associated Facilities		11
	2.3.1	OHTL		11
	2.3.2	Water Pipeline		11
	2.4	Alternative Analysis		11
	2.4.1	Site Alternatives		12
	2.4.2	Technology Alternatives		12
	2.4.3	No-Project Alternative		12
	2.5	Land Use		13
	2.6	Project Schedule		14
3.0		AGEMENT OF ENVIRONMENTAL AND SOCIAL ISSUESHATA! /Ilanmamiş.	YER	İŞARETİ
4.0	STAK	EHOLDER ENGAGEMENT		45
5.0	GRIE	ANCE MECHANISM		47
	5.1	Internal Grievance Mechanism		47
	5.2	External Grievance Mechanism		47

TABLES

Table 1: EIA Decisions of Sub-Projects	1
Table 2: Project Categorisation	4
Table 5: ESMPs	43

FIGURES

Figure 1: Illustration of Project Parties	2
Figure 2: Photos of General Site Activities (Dated 2022, taken by EIA Consultant (EN-ÇEV)	5
Figure 3: Project Location Map	6
Figure 4: General Project Layout	7
Figure 5: Nearest Settlements	8
Figure 6: Project Illustration	10
Figure 7: Bifacial Cell Structure	ımlanmamış.
Figure 8: Cell Structure	ımlanmamış.
Figure 9: Visual Demonstration of the Collection of Strings in the DC Combiner Box Hata! Ye tanımlanmamış.	er işareti
Figure 10: Visual Demonstration of an Inverter Station	ımlanmamış.
Figure 11: Layout of Project Components	ımlanmamış.
Figure 12: Land Use of Şanlıurfa	13
Figure 13: Land use of Viranşehir	13
Figure 14: Project Schedule	15
Figure 15: Area of Influence Map of the Project	18
Figure 16: Map Showing Nearest Settlements to the Project Site Elements of ESMS (IFC, 2015)	43

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

G4-Viranşehir-5,7,8 Solar Power Plant Project ("the Project") having a capacity of 195 MWp/150MWe, 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 located in Şanlıurfa Province, in the Viranşehir District, Kadıköy Neighbourhoods in Türkiye.

The Project area had been declared as an area suitable for the development of a solar project: a Renewable Energy Resource Area ("YEKA"). Consequently, Ministry of Energy and Natural Resources had launched the "Competition Announcement on the Allocation of Renewable Energy Resource Areas and Connection Capacities Based on Solar Energy"; YEKA SPP-4 Erzin-Viranşehir (including G-4-Viranşehir-5,7,8) competitions were held on 28.06.2022. YEKA Right of Use Agreements were signed on 08.08.2022 with Kalyon Enerji Yatırımları A.Ş., which won the competition held by the Ministry.

The Project consists of three sub-projects namely, G4-Viranşehir 5 Solar Power Plant Project, G4-Viranşehir 7 Solar Power Plant Project and G4-Viranşehir 8 Solar Power Plant Project. Individual Environmental Impact Assessment (EIA) reports have been prepared for these sub-projects as per the requirements of national EIA Regulation and the "EIA Positive" decisions for each Project have been acquired as shown in Table 1.

Name of Sub Project	Allocated area (ha)	Capacity	National Status	EIA	Type of the I	Land
G4-Viranşehir 5 Solar Power Plant Project	90	65 MWp/65 MWm/50 MWe	EIA Decision (Decision N	Positive Acquired No: 6998)	Pastureland Grassland	and
G4-Viranşehir 7 Solar Power Plant Project	90	65 MWp/65MWm/50MWe	EIA Decision (Decision N	Positive Acquired No: 6996)	Pastureland Grassland	and
G4-Viranşehir 8 Solar Power Plant Project	90	65 MWp/65MWm/50MWe	EIA Decision (Decision N	Positive Acquired No: 6997)	Pastureland Grassland	and
TOTAL	270	195 MWp/65MWm/150MWe		-		-

Table 1: EIA Decisions of Sub-Projects

A Gap Analysis Study, previously prepared by WSP Danışmanlık ve Mühendislik Ltd. Şti. ("WSP Türkiye") in May 2023, has identified gaps in the existing national EIA Report and available documentation obtained from Kalyon Enerji 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), Organisation for Economic Cooperation and Development (OECD)'s Common Approaches and Guidelines, and the best practices in the industry along with the national legislation).

Kalyon Enerji retained WSP Türkiye to prepare the ESIA for the Project in compliance with the national and international requirements detailed above and in Chapter 2.

The main components of the plant consist of solar panels, a panel carrier system, an inverter station (inverter, transformer, ring main unit and the substation). Infrastructure and utilities can be listed as the administrative building, Supervisory Control and Data Acquisition (SCADA) System and the overhead transmission line (OHTL). Once the Solar Power Plant is put into operation, it is planned to produce 390,000 MWh-electricity in annual basis, and the electricity produced will be transferred to the Viranşehir Substation via a new ~26.7 km length 154 kV OHTL. Details of the Project components are provided in Chapter 3 of this report.

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 have been started in August 2023. The construction period of the Project is estimated to be 10 months, test and commissioning period will be 7 months and the total operation period will be 30 years.

The Project will be established on a pasture land of 270 hectares. Adıyaman-Şanlıurfa-Diyarbakır Planning Region 1/100.000 Scaled Environmental Master Plan Amendment (M44, N42 and N43 Plan Plots, Plan Amendment Explanation Report) was approved on 07.07.2020 in accordance with Article 102 of the Presidential Decree No. 1. This Environmental Master Plan is located within the borders of "Grassland-Pastureland" as land uses in the 1/100.000 scale N43 Plan. The Project areas are also classified as "Pastureland" in terms of title deed.

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.

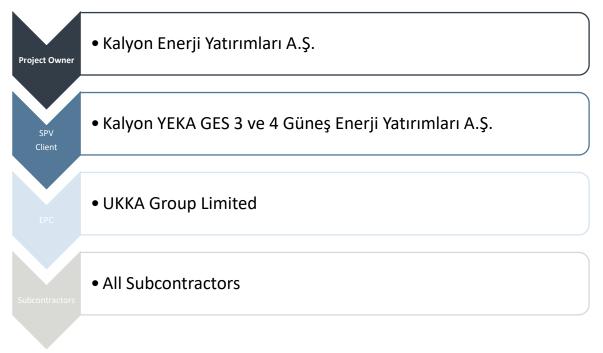


Figure 1: Illustration of Project Parties

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 Enerji.

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 Viranşehir 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:

Applicable Standard	Category Explanation
IFC PSs (2012)	Category A: Business activities with potential significant adverse environmental or social risks and/or impacts that are diverse, irreversible, or unprecedented.
EPIV (2020)	Category A: Projects with potential significant adverse environmental and social risks and/or impacts that are diverse, irreversible, or unprecedented.

Table 2: Project Categorisation

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

2.0 **PROJECT DESCRIPTION**

2.1 **Project Overview and the Location**

G4-Viranşehir-5,7,8 Solar Power Plant Project having a capacity of 195 MWp/150MWe, is planned by Kalyon Enerji Yatırımları A.Ş. ("Kalyon Enerji") and this Project will be developed and constructed by Kalyon YEKA GES 3 ve 4 Güneş Enerjisi Yatırımları A.Ş ("Client"), a subsidiary of Kalyon Enerji. The Project will be located in Şanlıurfa Province, Viranşehir District, Kadıköy Neighbourhoods in Türkiye. Once the Project is put into operation, it is planned to produce -390000 MWh electricity in annual basis, and the electricity produced will be transferred to the Viranşehir Substation via a new ~26.7 km-length 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 was planned to be started in August 2023. On the other hand, according to the latest information given by the Client, pre-construction activities have not started in the ESIA Report preparation phase.

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 Activities (Dated 2022, taken by EIA Consultant (EN-ÇEV)

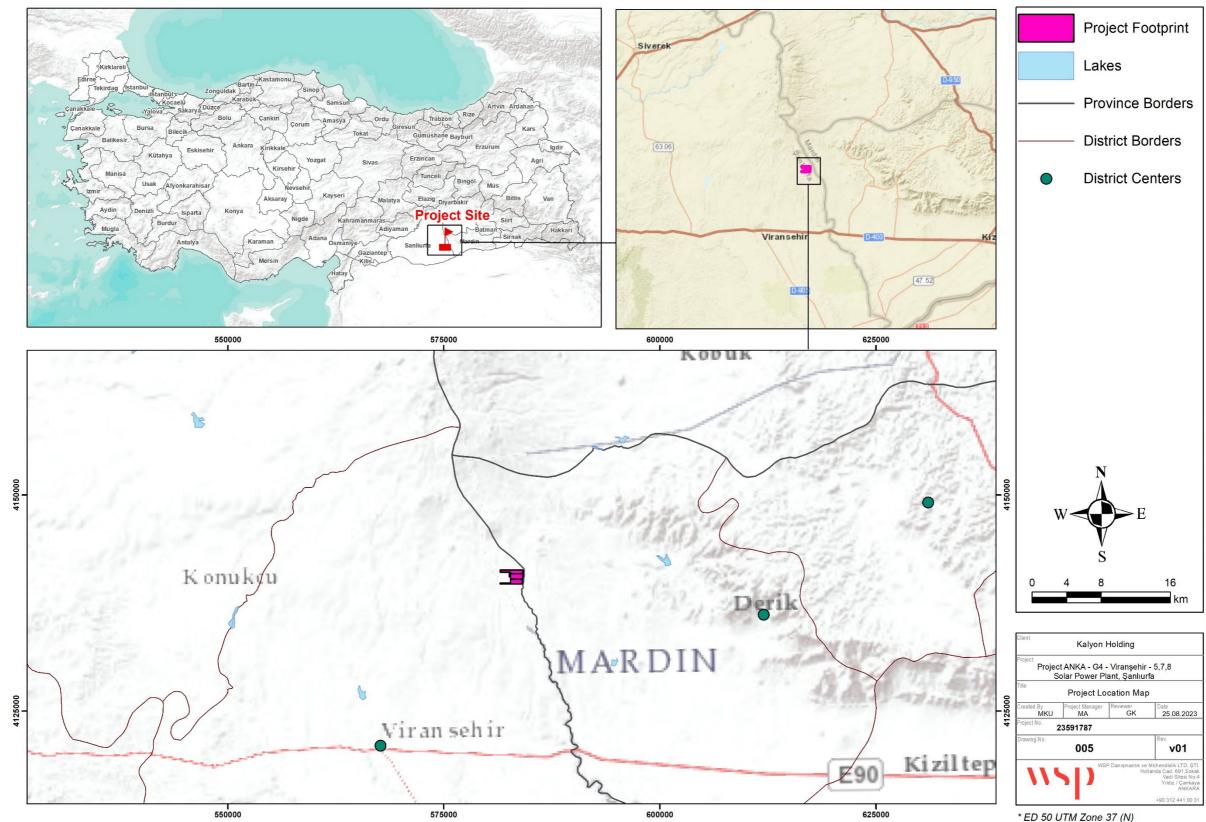


Figure 3: Project Location Map

* ED 50 UTM Zone 37 (N)

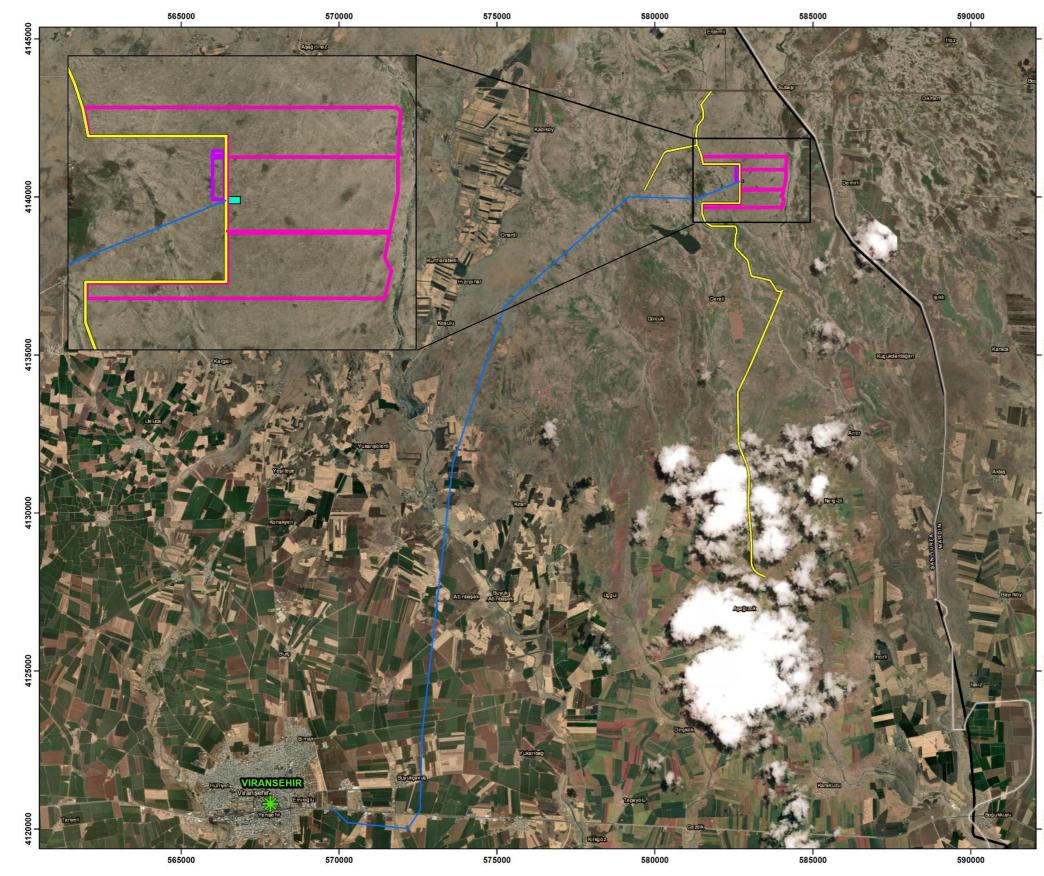
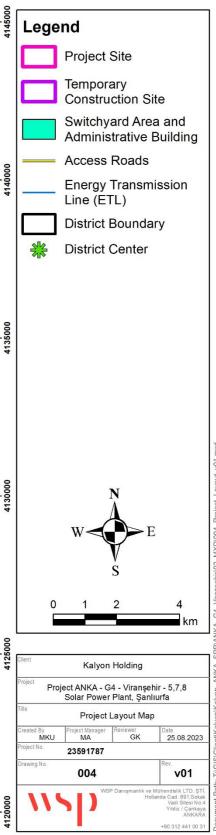


Figure 4: General Project Layout



* ED 50 UTM Zone 37 (N)

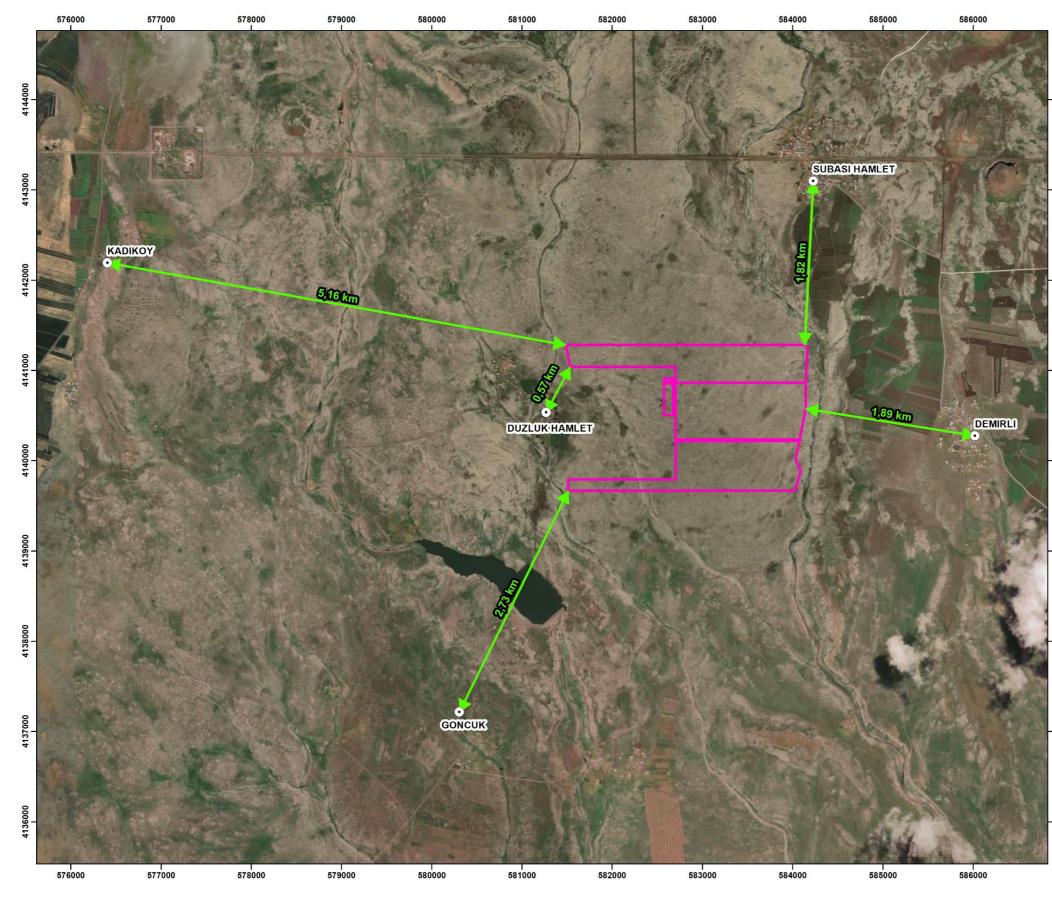
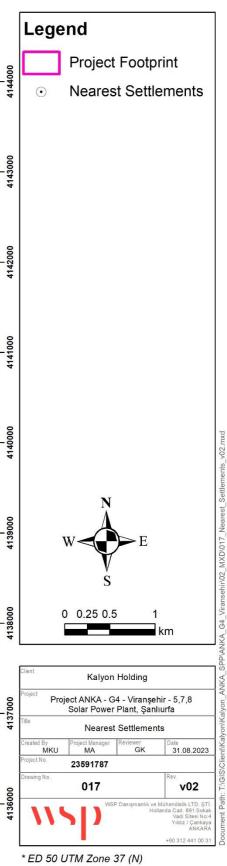


Figure 5: Nearest Settlements



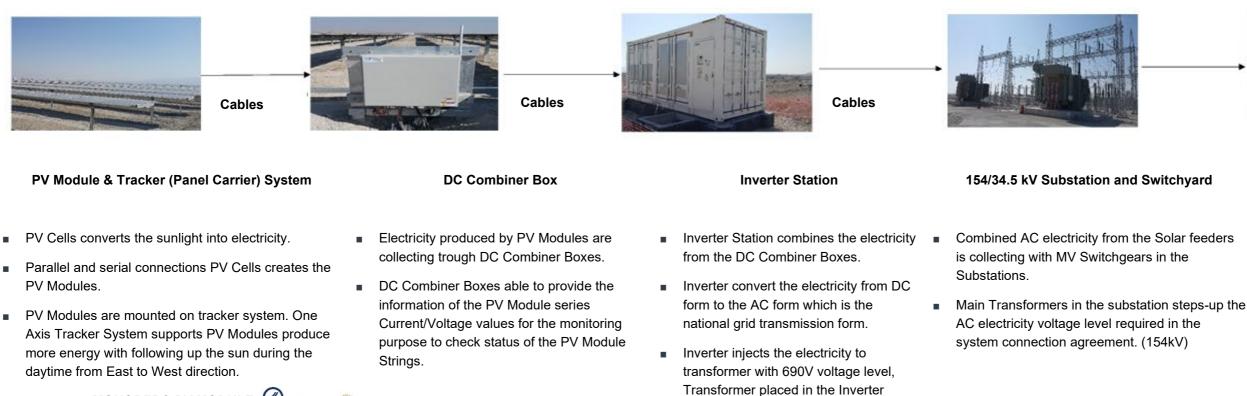
8

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 buildings (including dining hall, security building, personnel workshop).

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**

34.5kV.

Substation.

MONOPERC PV MODULE

Panel Power: 400 W Panel QTY: 487728 PCS

SINGLE AXIS TRACKER SYSTEM **©PVH**

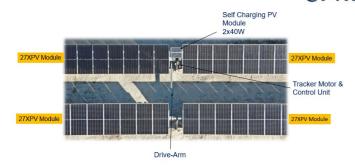


Figure 6: Project Illustration



- 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 aluminium conductor cable, a carrier pole and an insulating insulator that provides the connection between the pole and the conductor.

According to Electricity Market Law in Türkiye, OHTL investments can be constructed or financed jointly by the legal entity or entities requesting connection to facilities in the following cases:

- Where it is necessary to construct a new transmission facility for the connection of generation and consumption facilities to the transmission system and new transmission lines to connect this facility to the transmission system,
- Where TEİAŞ does not have sufficient financing for the construction of these facilities
- Investment cannot be planned on time by TEİAŞ,

The investment cost is repaid by deducting from the transmission system usage fee within the framework of a facility contract to be signed between the relevant legal entity or entities and TEİAŞ, and connection and system usage agreements.

According to the information obtained from the Client, once the Solar Power Plant is put into operation, it is planned to produce 390,000 MWh electricity annually, and the electricity produced will be transferred to the Viranşehir Substation via a new ~26.7 km-length 154 kV OHTL. This new OHTL will serve for the other solar power plants in the vicinity of the Project Area. Therefore, it is not clear whether OHTL will be counted as an associated facility for these reasons mentioned. Therefore, it is not considered as an associated facility within the scope of the ESIA report.

2.3.2 Water Pipeline

A patrolling office is planned to be built near the project area and a groundwater well will be drilled for the patrolling office. Kalyon will plan to use water from that well for potable water requirements of the personnel and utility during the construction and operation phase patrolling officeand installation and operation of the well will be under the responsibility of the patrolling office. Since patrolling office will be very close to the mobilization area of the Project, no pipeline construction is of concern at this stage of the ESIA. Therefore, the well and the water pipeline is not considered as an associated facility within the scope of the ESIA report.

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

The Project area was declared as an area suitable for the development of solar projects: a Renewable Energy Resource Area ("YEKA") by the Ministry of Energy and Natural Resources. Consequently, it was launched the "Competition Announcement on the Allocation of Renewable Energy Resource Areas and Connection Capacities Based on Solar Energy"; YEKA SPP-4 Erzin-Viranşehir (including G-4-Viranşehir-5,7,8) competitions were held on 28.06.2022. YEKA Right of Use Agreements were signed on 08.08.2022 with Kalyon Energi Yatırımları A.Ş., which won the competition held by the Ministry of Energy and Natural Resources.

Since YEKA areas are assessed, defined and declared by the Ministry of Energy and Natural Resources and allocated for the investors who win the relevant competitions, there is no other site alternatives for the Project.

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), 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 300,000 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, 194,640 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 https://www.solarfeeds.com/mag/csp-and-pv-differences-comparison/



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

2.5 Land Use

The total land use area in Şanlıurfa Province is 1,921,985,24 hectares. The Siverek district of Şanlıurfa is the largest district in terms of surface area. The latest information available on land use of Şanlıurfa is based on the 2018 data of CORINE Land Use Classification System. The distribution of land use of Şanlıurfa according to the latest data available is provided in the figure below.

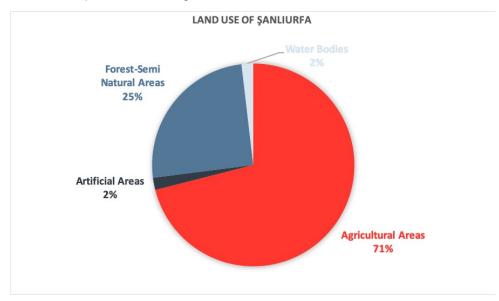


Figure 7: Land Use of Şanlıurfa

In Şanlıurfa, forest, semi-natural, and agricultural areas comprise almost all the land. Water Bodies and artificial areas comprise 4% of the total land.

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

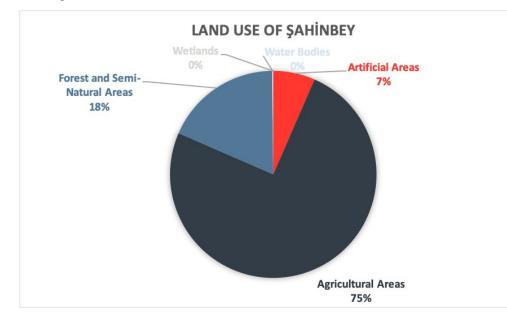


Figure 8: Land use of Viranşehir

In Viranşehir, land use distribution is similar to Şanlıurfa. Agricultural and forest-semi natural areas make up most of the land.



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 10 months, test and commissioning period will be 7 months and the total operation period will be 30 years.

Activity	Start Date	End Date
Permitting		
Ministry Approval of Design	15-Mar-23	10-Aug-23
Construction Permit	15-Sep-22	10-Aug-23
Final Delivery Acceptance Certificate Application & Issuance	01-Mar-24	05-Mar-24
The signing of the YEKA Contract	08-Aug-22	
Master Plan Approval	20-Nov-22	14-Sep-23
EMRA (EPDK) Pre-License Approval	09-Nov-22	09-Mar-23
Base Plan Approval of the Site	04-Oct-22	30-Oct-22
Environmental Impact Assessment Approval	15-Sep-22	25-Jan-23
Signing TEIAŞ Connection Agreement	05-Oct-22	22-Jun-23
Transfer of Land Ownership	18-Nov-22	18-Aug-23
Land Allocation Approval	25-Nov-23	29-Nov-23
Electricity Generation License Approval	19-Oct-23	13-Nov-23
Baseline Studies (Physical Measurements & Biodiversity Monitoring)	04-Apr-23	05-Jun-23
Engineering	06-Sep-22	30-Aug-23
SPP Engineering	28-Sep-22	24-Jun-23
<u> </u>	20 000 22	21 8411 28
Substation Contracting & Engineering	06-Sep-22	01-Jul-23
	-	
Substation Contracting & Engineering	06-Sep-22	01-Jul-23
Substation Contracting & Engineering OHTL Contracting, Engineering	06-Sep-22 04-Oct-22	01-Jul-23 15-Jun-23
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering	06-Sep-22 04-Oct-22 01-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of Municipality)	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23 15-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24 29-Aug-23
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of Municipality) Mobilization Works	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23 15-Aug-23 15-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24 29-Aug-23 13-Sep-23
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of Municipality) Mobilization Works Reptile & Mammal Nest Monitoring Prior to Earthworks	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23 15-Aug-23 15-Aug-23 15-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24 29-Aug-23 13-Sep-23 13-Sep-23
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Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of Municipality) Mobilization Works Reptile & Mammal Nest Monitoring Prior to Earthworks Construction Solar System Substation	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24 29-Aug-23 13-Sep-23 13-Sep-23 21-Jun-24 21-Jun-24 11-Mar-24
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of Municipality) Mobilization Works Reptile & Mammal Nest Monitoring Prior to Earthworks Construction Solar System Substation OHTL	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24 29-Aug-23 13-Sep-23 13-Sep-23 21-Jun-24 21-Jun-24 11-Mar-24 11-Mar-24
Substation Contracting & Engineering OHTL Contracting, Engineering CCTV & Lighting Engineering Procurement Early Works Rock Removal from Site Surface (Under Responsibility of Municipality) Mobilization Works Reptile & Mammal Nest Monitoring Prior to Earthworks Construction Solar System Substation OHTL Test & Commissioning & Provisional Acceptance	06-Sep-22 04-Oct-22 01-Aug-23 11-Apr-23 01-Jun-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23 15-Aug-23	01-Jul-23 15-Jun-23 30-Aug-23 07-Sep-23 29-Feb-24 29-Aug-23 13-Sep-23 13-Sep-23 21-Jun-24 21-Jun-24 11-Mar-24 03-Jul-24

Figure 9: 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 this ESIA, utilising both desktop study and field-based approaches. However, due to the opposition of the local communities, a robust social baseline study and biodiversity study could not be conducted up to this stage of the ESIA. Therefore, social impact assessment part of this ESIA Report was written based on media analysis, Mukhtar interview, key institution interview and expert judgement since the local community had not participated to such a social survey and the biodiversity baseline was written based on the information given in the national EIA report and literature research. On the other hand, within the scope of the environmental baseline study, baseline measurements for water, soil, air, groundwater, surface water, noise, vibration and settled dust were

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carried out in April 2023. E&S pre-construction survey including biodiversity component was carried out by the Client on February 21, 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 15.

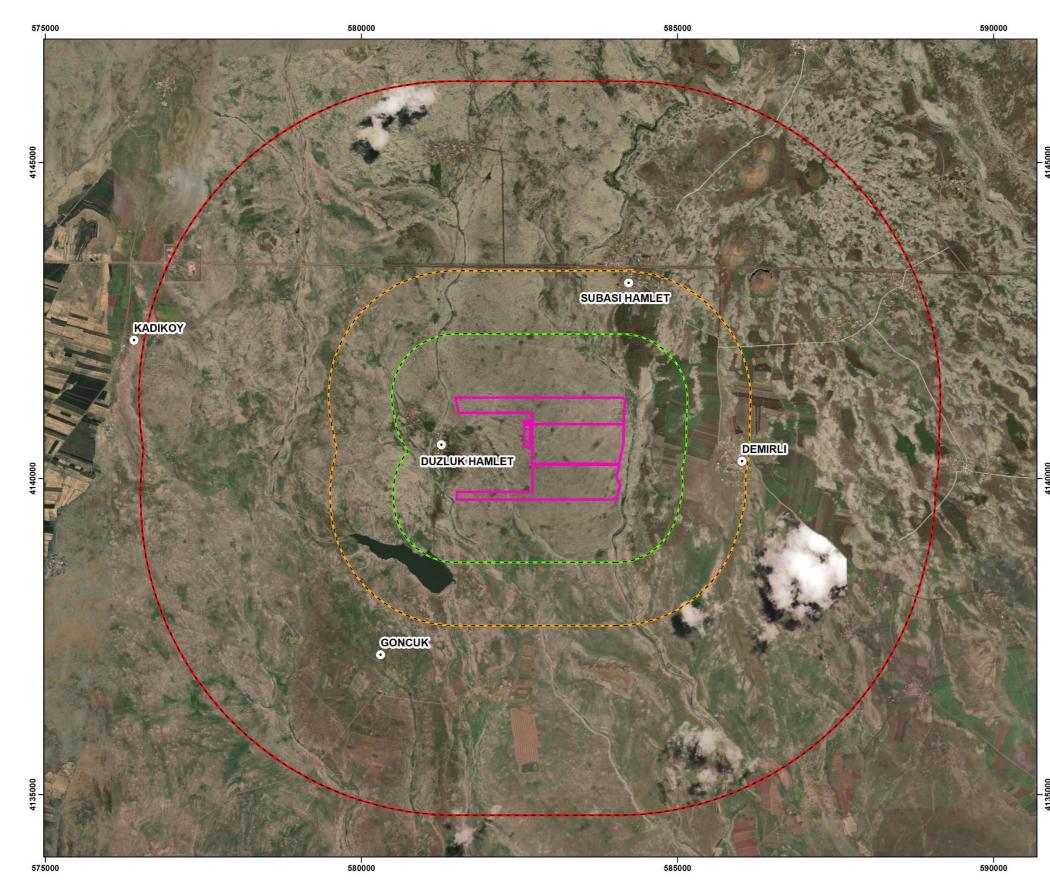
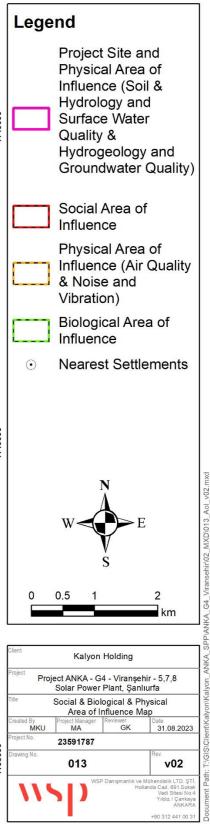


Figure 10: Area of Influence Map of the Project



* ED 50 UTM Zone 37 (N)

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, 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 with the local communities. Employee Code of Conduct will be prepared and applied. The mukhtars of the villages will be informed about the construction of the workers' accommodation, and the workers that will be applied to record any gender-based complaints, and necessary measures will be taken accordingly. 			
	Operation	SPP/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 prepared and applied, A grievance mechanism will be applied to record any gender-based complaints, and necessary measures will be taken accordingly. 			

Summary of the Impacts and Mitigation&Monitoring Activities

Component	Phase	Project action	Mitigation measures	Monitoring meas
Economy and Employment	Construction	General engineering/construction works	 The Project will implement human resource policies and procedures and Labor Management Plan in compliance with the IFC PS-2 on Labour and Working Conditions. Job opportunities provided by the Project will be an essential source of income, especially for unemployed people, households living in poverty and the younger population in the AoI. The following enhancement actions will be implemented in order to improve the opportunities emerging from the Project and to enhance the positive impacts of the Project. The Project will implement human resource policies and procedures in compliance with the IFC PS-2 on Labour 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, banners) to reduce the requirement of the non-local labour force, Where applicable, vocational training will be provided to local people to maximize the local labour force, Before the procurement, local suppliers will be indentified, 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 provided to local small businesses through the Supplier Management Plan, An equal tender process will be provided to the local and non-local labour forces, Bank accounts will be provided to workers, and payments will be made via these bank accounts, The Worker Grievance mechanism	 Employment Training Recaplanning, phobe prepared f Employment performance Grievance Rebe produced
	Operation	SPP/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 energ
Labour and Working Conditions	Construction	General engineering/construction works	 All workers are required to provide criminal record, Social Security Institution service breakdown, place of residence, family declaration, and health checks, The recruitment processes will be transparent, public, and non-discriminatory, providing equal opportunities with respect to ethnicity, religion, language, gender and sexual orientation. The Contractors will provide information on the recruitment process, with particular emphasis on informing local communities of employment opportunities through different channels such as headmen and local associations, All workers will have freedom to join an association and union in compliance with Turkish Labour Law, The Client will follow Turkish law, while applying equal opportunities to women in all other branches where law does not prohibit women workers. Further measures will remain and Non-Discrimination and put in place to 	 Employment Training Record planning, pho records (cont Incident record Grievance Ref Collective Ag Occupational

easures

ent agreements made with contractors and subcontractors,

ecords (training materials, participant list, training photos), which will be performance indicators for ESMS, to ed for the Project,

ent records (contracts, employee register), which will be ce indicators for ESMS, to be prepared for the Project,

Records in accordance with the grievance mechanism to ed for the Project.

ergy production information

ent agreements made with contractors and subcontractors, ecords (training materials, participant list, training photos),

ontracts, employee register,

cords,

Records,

Agreements (if any),

nal health and safety records.

Component	Phase	Project action	Mitigation measures	Monitoring
Component	Operation	Project action SPP/infrastructure operation	 encourage female participation in non-employee workforce, such as Positive Equal Opportunity providing specific training where required, enabling flexibility and job-sharing opportunities for women with children to participate. The minimum age for the employment will be 18 and any use of child labour will be prohibited. Forced labour will be prohibited by ensuring full compliance with national legislation and the provisions of relevant conventions and other international standards. These measures will be reflected in the Project's Employment Policy Document, The ILO standards ratified by Turkey will be applied. The Client will be responsible of monitoring of the contractors' and supply chain companies. It should be noted that the Project will not cause retenchment of existing personnel, but collective dismissal of the construction personnel will be target will be target 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 papropriate for the climatic conditions and provide workers with a comfortable and healthy environment to rest and spend their spare time. Diriking 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 to the number of people expected to work in the facility and allowances will make for indicating whether the tolet facility is 'in Ube? First ati and medical facilities will also be provided at camp sites will be properly managed and disposed of in line with the requirements of Waste Management Plan. Workers who accommodate in the camps will be mease ware of any rules governing	
			 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 Şanlıurfa and the same sector. The Project and all contractors will put in place a formal worker grievance mechanism. 	
			The Project and all contractors will put in place a formal worker grievance mechanism.	<u> </u>

Component	Phase	Project action	Mitigation measures	Monitoring mea
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. The following implementations are planned within the scope of the CDP: Local employment (prioritizing Düzlük hamlet households), 	

easures

 Capacity building/development trainings for this employment. Local procursement, Local procursement, Pasture improvement project in coordination with Virangshir District Directorate of Agriculture, Equipment supply for animal breaders, Veterimary support, Equipment supply for agricultural activities, Improvement of the vitage roads Infrastructure improvement project in coordination with Virangshir District Directorate of Agriculture, Unrented project that will be directed due to Project will be determined and specific assistance will be provided. Unrented project that will be affected due to Project will be determined and specific assistance will be provided. During the accurstner process priority will be provided to people who lost their livelihoods as a result of the Project. All construction works will be contenting within the borders of the designation and cases of an unplanned damage, liss of the affected PAPs will be normalised by the contractors. Community Liaison Officer will be interd and collect givenances. Grievance mechanism will be classificated as far as possible by keeping the Project construction foroprint and pasture lands will be compensated. Hurring and collection of will be compensated at a full replanement value. Any basines functions will be compensated at a full replanement value. Acy basines function will be assist will be accompanied at a full replanement value. Action full biotach and collection of will be conducted in the construction mores are completed. If this project is successful, this site will be compensated. Hurring and collection of will be construction works are completed. If this project is successful, this site will be compensated. Hurring and collection of will animals will be activated at a full replanement value. Actor will be developed and implemented and ned of the monit t	
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	the assessment report that includes guidelines for optimal stocking rates, rotational grazing, and fallowing
 Government Collaboration: The outcomes of the cooperation with the NGOs and the universities will be shared with the Ministry of Agriculture in a transparent way and further communication will be developed for their endorsement and support for widespread implementation. 	

23

Component	Phase	Project action	Mitigation measures	Monitoring m
			 Shepherd Recruitment and Training: Shepherds who have received training in sustainable grazing practices will be hired to prevent over usage on the ecosystem services, to protect the life of the animals, and to prevent any damage on the power plant, 	
			Livestock Development: Mitigation measures will be implemented to increase the number of sheep in the area, considering factors such as breeding programs, veterinary care, and access to quality feed.	
			Monitoring and Adaptive Management: Continuous monitoring of grazing activities and livestock development will be conducted throughout the project lifespan of the Project. The results will be discussed with the PAPs and the relevant stakeholders to identify areas for improvement and take necessary actions. The grazing procedure and livestock development strategies will be updated if required.	
			Construction Phase Mitigation: To mitigate the impact of construction on grazing land and livestock:	
			 Alternative feeding options will be provided. 	
			 Animal feed seeds will be distributed to promote vegetation growth and compensate for potential losses during the construction phase. 	
			 Community Engagement: PAPs will be engaged continuously during the implementation phase to ensure their understanding and cooperation. The awareness programs will be implemented to convey the on the benefits of sustainable grazing practices and the economic potential of increased sheep farming. 	
			 Documentation and Reporting: Detailed records of grazing activities, livestock development initiatives, monitoring results, and any implemented measures will be recorded and regular reports will be submitted rto the Ministry of Agriculture to keep them informed of project progress. 	
			 Project Dissemination: Work with the Ministry of Agriculture to disseminate successful practices to other regions. Facilitate workshops and knowledge-sharing sessions for farmers and stakeholders. 	
			Project Evaluation: Conduct a comprehensive evaluation of the project's impact on the field's ecosystem, grazing capacity, livestock development, and community livelihoods. Use the results to refine future projects and contribute to the broader understanding of sustainable grazing management and livestock development and include the results in the annual Environmental and Social Report.	

	General engineering/construction works General engineering/construction works Communities, and the young based on the required areas to prevent potential acadesing young based with signal, lights and maxings will be placed in the required areas to provent potential acadebasing will be young whane young based on the required areas to provent potent	Record of the workers, sull Investigation learned to in Record of a Records on The licenses are up to da Visual inspect Environmen Record of the activities take Weather ford Keeping a response act Keeping a response act Keeping a response act Received and Please See Please See Please See Community formed for the Stakeholder the Stakeholder the Stakeholder Training rec Records of of Licenses a storage/recy Document agreements Training rec
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f the number of traffic-related incidents involving contractor subcontractor workers and external persons,

tion of the incidents and accidents and use of lessons o improve traffic mitigations,

of and tracking Training Records of Drivers and Training on Community Health and Safety,

ses and medical surveillance of the operators to ensure they date,

spections

ental monitoring records

the number of total road closures caused by the Project

nce records of the vehicles to ensure regular maintenance take place,

forecast monitoring to ensure the safety of the operators,

a record of and tracking the traffic accident/emergency actions,

a record of the number of grievances related to the traffic and the percentage of grievances resolved positively,

ee Air Quality Chapter of the table

ee Noise Chapter of the table.

ity grievances registers by the grievance mechanism to be or the Project,

der Engagement and consultation registers and records by holder Engagement Plan to be produced for the Project,

ges of the local employees (which will be a performance for ESMS to be prepared for the Project),

n figures of the settlements according to TURKSAT data.

records on community health and safety,

of communicable diseases.

and permits of quarries and excavation material ecycling facilities will be recorded,

nt review (e.g., permits, waste recycling/disposal nts) and visual checks at the work sites.

records of the security personnel.

	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 and noise 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.
	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,
	 Pollution Prevention Plan will be followed.
	 Quality spare parts and lubrication products will be used.
	Considering the expected population influx and the insufficient infrastructure system in some of the settlements in the AoI identified in the socioeconomic baseline, mitigation measures have been defined to prevent the pressure and negative impact on infrastructure and services caused by the population influx, especially during the construction phase. Certain negative impacts related to the population influx due 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.
	The population increase may lead increase in communicable and infectious diseases in the Project Area of Influence. The following are the essential control measures to be implemented to avoid the spread of communicable 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.
	 Measures defined in Chapter 7.1 of the ESIA Report and Waste Management Plan and Pollution Prevention Plan will be followed.
	A Security Management Plan have been prepared in line with the national (Private Security Services Law No: 5188, 2004) and international (e.g., IFC PS4) standards within the scope of the Project to manage the security-related impacts and ensure the security of the activities, assets, work premises at the Project and avoid potential impacts on workers and the local community. The following measures will be considered 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,
	 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,

Component	Phase	Project action	Mitigation measures	Monitoring meas
			 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. 	
		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. 	The record
			 Project site will be equipped with suitable and sufficient lighting to ensure sufficient visibility. 	contractor w
	ition		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.	 The record activities,
	Operation		Parking areas will be designated with signs and reverse parking will be implemented for emergency situations.	The record of grievances
	Ō		The routes to be used by pedestrians will be segregated from vehicle routes where possible.	The record \$
			 The speed limits will be implemented. 	 Traffic accid
			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.	Training Real
			 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. 	
			 An Emergency Preparedness and Response Plan will be prepared and implemented during the construction phase of the Project, 	
vices			 A Traffic Management Plan will be prepared and implemented, 	The record
Serv			Before the establishment of the construction and the workers' accommodations, an engagement with the local	contractor w
	и		authorities, including the Municipalities, will be held, and energy, transportation and water demand of the Project will be shared,	 The record activities,
Infrastructure, Utilities and	Construction	General engineering/construction works	 Workers' accommodation will provide health services to the Project workers to not create pressure on the health services of the local communities, 	 The record education a
	Cor		 At minimum first aid and the medical unit will be established, 	percentage
			 District or province government hospitals will be used when required, 	The record
			 In case of damage to the local infrastructure, including but not limited to telecommunication, electricity, road and water sources, immediate maintenance will be applied, 	The usage of the second sec
_			 A Project-specific Grievance Mechanism will be used to record, avoid, and solve the incident caused by the Project on the local infrastructure. 	
			Project on the local infrastructure.	

ord of the number of traffic-related incidents involving or workers, subcontractor workers and external persons, rd of the number of full road closures caused by Project

rd of the number of grievances received and percentage of es resolved positively,

rd Stakeholder engagements,

cident /emergency response actions,

Records of Drivers.

ord of the number of traffic-related incidents involving r workers, subcontractor workers and external persons,

rd of the number of full road closures caused by Project

ord of the number of grievances related to access to n and health received from the external stakeholders and ge of grievances resolved positively,

rd of emergency response actions,

e of water sources affecting the local communities.

Security of the policy against sexual harassment incident referral and reporting plan,meetings,• Notice to employees of the policy against sexual harassment,• The record violence an resolved p• Plant/infrastructure operation• Orientation training on policy against sexual harassment and gender-based violence, • Monitoring and reporting of employee participation in orientation training, • Contractor participation in sexual harassment meetings and workshops,• The record and sexual	Component	Phase	Project action	Mitigation measures	Monitoring me
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ord of women's participation in public information disclosure s,

ord of the number of grievances related to gender-based and sexual harassment received percentage of grievances d positively,

ord of Project workers' training on gender-based violence ual harassment,

ge of water sources affecting the local communities.

Component	Phase	Project action	Mitigation measures	Monitoring meas
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 conducted with appropriate equipment and methods. The appropriate equipment 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; 	 Presence of Absence of a influence. Presence of visual influence
Visual Aesthetics	Construction	General engineering/construction works	 There are no industry standards or best practice guidance regarding with landscape mitigation and management within the scope of the national legislation. The proposed mitigation measures associated with the Project comprises of professional judgement. 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 re

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of two settlements within four km of Project Area.

of areas of touristic interest within the visual zone of visual

of roads and volume of traffic within the visual zone of uence.

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Component	Phase	Project action	Mitigation measures	Monitoring meas
	Operation	Plant/infrastructure operation	 There are no industry standards or best practice guidance regarding with landscape mitigation and management within the scope of the national legislation. The proposed mitigation measures associated with the Project comprises of professional judgement. 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 re
Physical Comp	onents	1		T
Air Quality	Construction	General engineering/construction works (i.e., land clearing, ground excavation, cut and fill operations, camp site operations) Material transportation	 Dust will be supressed by spraying water 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) and trucks carrying fine material (excavation soil or fine material, etc.) will be covered with tarpaulin to prevent dust emissions; Skidding will be avoided during loading and unloading; Completed earthworks will be covered and sealed - as soon as reasonably practicable after completion; In case alternative roads are present, construction traffic will avoid passing through the settlements. If roads through settlements cannot be avoided, necessary measures (i.e., speed limits) will be taken to prevent/minimise transportation related emissions and communities will be prohibited;; Campfires or burning materials will be prohibited; 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 idled for short periods during duty, to avoid unnecessary emissions by turning the vehicles off and on frequently; Machinery and equipment will be periodically checked and maintained to ensure their good working condition and for compliance with standards and technical regulations for the protection of the environment and have appropriate certifications; Emergency generator working hours will be recorded and necessary emission measurements will be conduced 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 by ere; Exhaust gas emission arising from the engine land vehicles in traf	 Grievances r Air quality m Regular (dail Maintenance Warnings/pe

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Material transportation. Noise monitable multiple in the yeak of power levels; Installing suitable multiples and power levels; Installing suitable multiples on engine exhausts and compressor components; Installing suitable multiples on engine exhausts and compressor components; Installing suitable multiples to operation for specific pieces of equipment or operations, especially mobile sources Operating through community area; Specific throughout its for the Project vehicles that will transport construction materials / equipment; Property refurbished and/or new machinery or equipment, which is throught to generate excessive noise (e.g., a detective multifier, broken or loosely place appropriate, as appropriate noise provide; Engine covers will be kept closed when the equipment is in operation to minimize noise; Utiling of construction vehicles will be avoided; Iding of construction vehicles will be avoided; Iding of construction vehicles will be avoided; Iding of construction vehicles will be avoided; Iding of construction vehicles will be avoided; Iding of construction vehicles will be avoided; Iding of residences and other solute and or new machines) or equipment. Night without on crasting enginement significant change appropriate; Iding of prostruction vehicles will be avoided; Iding of construction vehicles will be avoided; Iding of construction vehicles will be avoided; Rel-coating noise sources to less sensitive areas to take advantage of distance and shielding;<!--</th--><th>Component</th><th>Phase</th><th>Project action</th><th>Mitigation measures</th><th>Мо</th><th>onitoring mea</th>	Component	Phase	Project action	Mitigation measures	Мо	onitoring mea
opgen eventices will be periodically checked and maintained to ensure their good working condition; Number of vehicles operating aimultaneously will be kept at a minimum. eventset Image: Second S			Plant/infrastructure operation	 additional dust water suppression methods will be applied, such as increasing the water spraying; the number of the vehicles in this period will be kept at a minimum, as much as possible. 		Maintenand
Material transportation. • Betaction of aquipment with tower sound power levels; • Betaction of aquipment with tower sound power levels; • Installing subcasts and compressor components; • Installing subcasts and compressor components; • Installing subcasts and compressor components; • Installing subcasts and compressor components; • Installing subcasts and compressor components; • Installing subcasts and compressor components; • Installing accusts enclosures for requipment casting radiating noise; • Speed limits applied throughout site for the Project vehicles that will transport construction materials / equipment; • Property refurbished and/or new machinery, equipment, which is through to generate excessive noise (e.g., a defective muffler, project or elicites will be used to the extent possible; • Vorkers will be trained in noise abartement bet practices, including unnecessary operation of engines and through our vehicles will be used to the extent possible; • Workers will be trained in noise abartement bet practices, including unoiding unnecessary operation of engines and through our vehicles will be used to the extent possible; • Workers will be trained in noise abartement bet practices, including avoiding unnecessary operation of engines and through our engineed and they will be registered and they will be cugineet and work methods) will be used to limit vibration of enginees and through ourse resensive receptors with high vibration creating editions and the divide engineet and through our engineed and in extensions and vehicles will be avoided. • Best management practices (e.g. Selection of equipment and work methods) will be used to limit vibration charge startewishing of residences and otwains or training engineed where were possible; • Developing a grievance, otereas sensth		Operation		emission;Vehicles will be periodically checked and maintained to ensure their good working condition;		
of equipment to be operated simultaneously will be reviewed and revised accordingly, if possible. Secondly, if it	Noise and Vibration	Construction		 Selection of equipment with lower sound power levels; Installing silencers for fans; Installing suitable mufflers on engine exhausts and compressor components; Installing acoustic enclosures for equipment casting radiating noise; Limiting the hours of operation for specific pieces of equipment or operations, especially mobile sources operating through community areas; Speed limits 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; Engine covers will be kept closed when the equipment is in operation to minimize noise; Workers will be trained in noise abatement best practices, including avoiding unnecessary operation of engines and switching off equipment when it is not required; Idling of construction vehicles will be avoided; 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 centrol will occur when working within 50 meters of residences and occur based on the soil conditions and the driving energy of the hammer; Ree-locating noise sources to less 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; and Performing quarterly		Grievances Noise monit Maintenanc Warnings/po

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Component	Phase	Project action	Mitigation measures	Monitoring mea
			is not possible to revise the construction schedule, noise barriers without any gaps and with a continuous minimum surface density of 10 kg/m2 could be installed as a second option, in order to minimize the transmission of sound through the barrier. Barriers should be located close to the source or to the receptor location to be effective. The exact specifications, location and number of the noise barriers will be determined, if deemed necessary.	
	Operation	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; 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 In cases when monitoring results indicate that noise levels are above the defined limits, then noise abatement measurement will be implemented (a n price barriers at the source soundproofing step). 	 Maintenanc Noise monit Grievances
Soil and Subsoil	Construction	General engineering/construction works; Material Storage Accommodation and management of the workforce	 measures will be implemented (e.g. noise barriers at the source, soundproofing, etc.). Project Soil Management and Erosion Control Plan will be developed and implemented. Land preparation and construction activities will be re-scheduled during extreme weather conditions, when possible, to avoid erosion risk. Erosion control measures, including installation of drainage channels will be implemented as necessary, to prevent movement of sediment off-site, prior to the start of construction operations. Drainage channels and dikes will be installed to prevent runoff to adjacent lands and loss of soil around the temporary excavated material storage areas and bedding, padding, back filling, and aggregate materials. Topsoil management will be prioritized and in case vegetated/uncontaminated land is expected to be permanently removed, the topsoil will be property stored in accordance with the Regulation on Excavation, Construction and Demolition Kalyon Energi will ensure that topsoil management will be carried out in line with international standards. Subsoil removal 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. Loss of subsoil will be minimized through use of suitable equipment, planning, development of procedures and schedules. Subsoil removal will not be carried out during construction activities, unless necessary, to minimize disturbance to vegetated/uncella. Any 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 disposal facility is not available, Kalyon Energi will lidentify parcels, for which usage rights will be obtained from the respective right holders as per	 Visual Site i Monitoring r Maintenance Grievances Waste dispo Records of t
			 There will be a designated area for the licensed vehicles to receive the wastes. Hazardous wastes and non-hazardous wastes will be stored separately, with separate access. 	

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Component	Phase	Project action	Mitigation measures	Monitoring me
			 Precautions against possible fires and spills (fire extinguisher, spill kit, etc.) will be available at the storage area. 	
			The waste storage areas will be covered at the top and on four sides, shielded from precipitation and the elements. Adequate containment and drainage systems will be installed.	
			Storage area will be closed and locked at all times.	
			The contact information of the personnel in charge of the waste storage area and warning signs will be posted at the temporary storage areas.	
			The floor will be concrete, the edges of the floor will be raised with concrete walls/parapets for hazardous waste containment.	
			To ensure impermeability; cured concrete with a minimum thickness of 25 cm will be applied, where the concrete meets C30 (STS) standard. If this condition is not met, impermeability will be ensured by laying a of impermeable layer at least 1 mm between the concrete and the soil floor.	
			All 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.	
			 Disposal of wastes at sufficient frequencies will be scheduled in order not to exceed the storage capacities at the temporary waste storage areas/storage compartments. 	
			 Hazardous wastes (except for the medical waste) will be temporarily stored at the waste storage areas for a maximum of 6 months and non-hazardous waste for a maximum of one year. 	
			 Industrial Waste Management Plans for all temporary waste storage areas 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 and will be renewed prior to expiry of the approvals. 	
			 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. 	
			 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. 	
			 Hazardous Materials and Hazardous Waste Compulsory Liability Insurance will be available 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; 	
			 Official waste declarations for all waste generated will be submitted to the online system of MoEUCC, starting from January each year until the March of each year at the latest. 	
			 Waste storage outside the designated storage areas will be prohibited. Wastes stored in the interim storage areas will be transferred to the temporary storage area daily; 	
			 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 refuelling and maintenance of the machinery/vehicles. If it is not possible according to the nature of the Project, all refuelling 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 refuelling operations;	
			 Secondary containments, ponds and drip trays will be checked regularly, especially during extreme weather conditions; 	
			 Generators will be equipped with drip trays and will be checked regularly to prevent spills; 	
			 Portable spill containment and clean-up materials (spill kits) with instructions will be made available and easily accessible at the construction site; 	
			Training on spill response, use of containment and clean-up material (spill kits) will be provided to all workers;	
			Accidental spills and leakages will be managed through implementation of the Emergency Preparedness and Response Plan. Procedure for management of contamination will be prepared and in case of any spill/leakage, sampling and analyses will be conducted by accredited laboratories. Provisions of the Soil Pollution Control and Point Source Contaminated Sites Regulation will be implemented for investigation, management and reporting of any contamination.;	
			 Any equipment, machinery, pumps and trans mixers will be washed only at designated concrete plants, concrete slurry will not be discharged into environment; 	
			 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. 	
			 Leakproof report of the septic tanks will be ensured and necessary measures will be taken to prevent them from deforming in extreme weather conditions; 	

measures

Component	Phase	Project action	Mitigation measures	Monitoring mea
			 No untreated wastewater discharges of any type to land will be allowed. Polluted water (if any generated as a result of accidental leakages) will be properly collected or managed to prevent the soil pollution; 	
			 Discharge of wastewater will be in compliance with the applicable regulatory requirements given in Appendix B. 	
	Operation	Plant/infrastructure operation	 Project Pollution Prevention Plan and Waste Management Plan will be developed and implemented to ensure that the amount of release and spills are avoided or managed in a timely manner before reaching substantial amounts that may potentially affect the soil quality. The areas, where the hazardous materiais (chemicals, liquids etc.) storage tanks are 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 Safety Data Sheet (SDS) requirements etc.). The temporary waste storage areas will be constructed in accordance with the Regulation on Waste Management issued on April 02, 2015, Official Gazetta no: 28314 and GIP. The area will away from any traffic, the facilities or the buildings. There will be a designated area for the licensed vehicles to receive the wastes. Hazardous wastes and non-hazardous wastes will be stored separately, with separate access. Precautions against possible fires and spills (fire extinguisher, spill kit, etc.) will be available at the storage area. The waste storage areas will be covered at the top and on four sides, shielded from precipitation and the elements. Adequate containment and drainage systems will be installed. Storage area will be closed and locked at all times. The contact information of the personnel in charge of the waste storage area and warning signs will be posted at the toprorary storage areas. The floor will be concrete, the edges of the floor will be raised with concrete walls/parapets for hazardous waste containment. To ensure impermeability, cured concrete with a minimum thickness of 25 cm will be applied, where the concrete meets C30 (STS) standard. If this condition is not met, impermeability where the teorege areas storage capacities at the tempora	 Visual Site i Monitoring r Maintenance Grievances Waste disponse Records of the second s

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Component	Phase	Project action	Mitigation measures	Monitoring mea
			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 localised bunded & kerbed areas for containment of drainage, spillages and leaks in order to minimise 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;	
			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. 	
			 Project-specific Pollution Prevention Plan will be implemented for the management of sewage wastewater and backwash wastewater resulting from potable water treatment plant and implemented during the operation phase of the Project. 	
			 If deemed necessary, leakproof of the septic tanks will be ensured, and necessary measures will be taken to prevent them from deforming in extreme weather conditions; 	
			 No untreated wastewater discharges of any type to land will be allowed. Polluted water (if any generated as a result of accidental leakages) will be properly collected or managed to prevent the soil pollution; 	
AB		General engineering/construction works;	 Detailed studies on geological and geotechnical components (including seismicity) have already been completed for the Project before the construction phase within the scope of the local EIA. Recommendations in these studies should be implemented. 	 Visual Site in Monitoring response
olor			 Worksite will be minimized to the smallest extent possible in order to meet Project's works and activities. 	 Grievances
orpl	Ę		Construction site will be minimized to the smallest extent possible in order to meet Project's works and activities.	
Geom	Construction		 The foundations' footprints and depths have been properly dimensioned; hence the excavations and the consequent physical-mechanical disturbances will be minimized. 	
and	Cons		 The flattening and excavation operation will be minimized to the extent possible in order to limit the morphological disturbances. 	
Geology and Geomorphology			 Part of the removed material will be re-used as a fill material at the Project Area, if it presents the suitable geotechnical characteristics, in order to limit the use of raw material. 	
Ğ				
	uo	General engineering/construction works;	 Before and during the construction activities in the study area, the provisions of "Türkiye Building Earthquake Regulation" (OG Number: 30364 Date: 18.03.2018) will be complied with. 	 Prepared ge risk assessn
ty	Construction	Material Storage	 Detailed investigations will be conducted for assessing the stability conditions for the structural elements for both normal operation loads and under seismic loads. Türkiye Building Earthquake Regulation requires certain parameters to be determined prior to the construction. These parameters were determined by the geological and 	 Warnings/pe
Seismicity	ŏ	Accommodation and management of the workforce	geotechnical investigations for the Project Area.	
Seis	u	Plant/infrastructure operation	 Several structures will be developed as part of the Project and these will all be designed according to Turkish and international design standards requiring specific structural characteristics related to slopes of cuts and fills, 	
	Operation		footing sizes and many other considerations.	
_		General engineering/construction works;	 The Project will comply with safety requirements to avoid leakages from hazardous chemicals/materials and liquids (diesel fuel, oil etc.) stored on-site. 	 Incident/acc Monitoring results
Hydrology and Surface Water	Construction	Accommodation and management of the workforce	 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.). 	 Wonitoring re Visual Site in Warnings/pe
Hydro Surfa	Cons		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).	Training rec
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geological, geotechnical, and hydrological studies, flood

/penalties given by public authorities

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Component	Phase	Project action	Mitigation measures	Monitoring
			 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 is designed in such a way that the surface and storm water infiltration will be prevented, and water is collected in the water collection -pit -constructed -on the ground level of the 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 materials inside the concrete foundation. 	
			The General Directorate of State Hydraulic Works (abbreviated as DSI in Turkish), and General Directorate of Water Management (abbreviated as SYGM in Turkish) will be consulted regarding hydrological studies and surface water quality and any additional studies will be conducted upon their opinions prior to the construction phase based on the opinions of these institutions.	
			Safe Fueling and Gasoline Handling Guidelines will be developed in the construction areas. No 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.	
			 Hazardous materials will not be stored in excavated areas and all handling of all hazardous materials will be in accordance with the Control of Substances Hazardous to Health Procedure. These procedures will be in line with Environmental, Health, and Safety (EHS) Guidelines: Environmental Hazardous Material Management (IFC, 2007). 	
			 Procedure for management of the construction site during periods of heavy rainfall will be developed. Exposed surfaces and stored materials will be covered if necessary to reduce the erosion of sediments into surface waters. 	
			Treated domestic wastewater would be reused for local watering of vegetation, dust control or as a fire-fighting reserve in accordance with the standards defined in the Wastewater Treatment Plants Technical Procedures Communique if it is deemed feasible. In case it is decided to reuse wastewater, a Wastewater Reuse Plan will be prepared during the construction phase describing which types of wastewater are suitable for each reuse application and effective control measures will be implemented to prevent misuse of reused water.	
			 The specific items in the management plans will address the measures below related to surface water and protection: 	
			 Design and management of spoil and soil storage areas and opening stores of construction materials to control sediment loss into runoff by minimizing the length and angle of slopes. 	
			 Schemes to prevent new ground surface eruptions from rainfall erosion or to avoid construction activities during periods of heavy rainfall. 	
			 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. 	
			 Collection and management of polluted water (if any generated by accidental leakages) in order to prevent mixing with any water body. 	
			 Protection of existing drainage and irrigation channels, sediment barriers, green areas, protection strips, such as drains, and drainage and erosion control pits by taking appropriate 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 around working areas to collect suspended runoff and direct it to a system of settlement basins before discharge following required permits, where practicable. 	

g measures

Component	Phase	Project action	Mitigation measures	Monitoring measu
			 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 them 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 and clean-up materials (spill kits). 	
	Operation	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 "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). 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. 	 Incident/accide Monitoring repo Visual Site insp Warnings/pena
Hydrogeology and Groundwater	Construction	Groundwater Usage General engineering/construction works; Material Storage Accommodation and management of the workforce	 Safe Fuelling and Gasoline Handling Guidelines will be developed in the construction areas. No fuelling of vehicles or equipment will take place within excavated areas. If heavy equipment cannot be moved to appropriate fuelling points, an impervious surface (such as a drip-tray) will be used for refuelling this equipment to prevent accidental releases to groundwater aquifers. Hazardous materials will not be stored in excavated areas and all handling of all hazardous materials will be in in accordance with the Control of Substances Hazardous to Health Procedure. These procedures will be in line with Environmental, Health, and Safety (EHS) Guidelines: Environmental Hazardous Material Management (IFC, 2007). As an example, secondary containment structures will consist of berms, dikes, or walls capable of containing the larger 110 percent of the largest tank to 25 percent of the combined tank volumes in areas where hazardous materials are handled (e.g., fuel stores and loading areas, concrete mixing, hazardous material stores) to prevent hazardous materials entering the site drainage. An Emergency Response Plan (ERP) will be developed in line with Environmental, Health, and Safety (EHS) Guidelines: General EHS guidelines (IFC, 2007) for handling spills of hazardous materials including fuels that will be handled during construction works. The specific items in the management plans will address the measures below related to groundwater or surface water. Controlling and avoiding wastewater flows from any field activities (i.e., excavations, and vehicle/equipment washing). Collecting and managing contaminated water (if any generated as a result of accidental leakages) in order to prevent mixing with any water body and topsoil/soil pollution. Assuring the maintenance of vehicles and equipment (if necessary) in designated areas with impermeable surfaces (concrete floors, etc.) and if necessary, secondary containment and clean-up ma	 Incident/accide Monitoring report Visual Site insp Warnings/pena
	Operation	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 "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). 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 	 Incident/accide Monitoring repo Visual Site insp

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Component	Phase	Project action	Mitigation measures	Monitoring mea
			as per the agreements/protocols to be executed with the related municipalities/licensed companies or to the main campsite package WWTPs.	
Traffic	Construction	General engineering/construction works	 A Traffic Management Plan will be 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. Considerations will be given to traffic volumes at the rush hours of the day and transportation of equipment and materialis will be utilized at quieter periods to avoid increased congestion on the roads used by the local communities. 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 dientified including installing reversing aids on vehicles, reversing sensors etc. Trained banksman will be used when reversing cannot be avoided. 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 sigregated from heavy vehicle routes where possi	 Visual inspective Monitoring Maintenance Grievances Traffic accide Training red
	Operation	Plant/infrastructure operation	 A Traffic Management Plan will be 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 	 Visual inspective Monitoring Maintenance Grievances Traffic accie Training recommendation

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Component	Phase	hase Project action	Mitigation measures		
			 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 prevent potential accidents/incidents. Barriers will be placed at the required areas to protect both human health and assets. 		
Greenhouse Gas (GHG) Emissions	Construction	General engineering/construction works;	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.	 Resource co Records on o Training records 	
			 All employees will be provided climate, resource and energy efficiency awareness training. 	Records on a	
	Cons		 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. 	Records onTraining records	
	Ę	Plant/infrastructure operation	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. 		
	atic		 Vegetation cover will not be disturbed if not necessary 		
	Operation		 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. 		

Biological Components

	-			1	
		General engineering/construction works	Avoidance measures have been considered particularly during the design of the facilities and include: minimisation of the footprint of individual facilities; 	•	Monitoring rep around the co
		Material transportation			Observations
		Material storage	 utilization of the existing modified habitat for placement of temporary facilities was prioritized as much as possible. 		identified rept the Aol
nts			1) vegetation and topsoil disturbance:	•	Records of ac
anoqr	ction		Imiting natural vegetation disturbance to the minimum necessary during construction works. For this		Records of ob road or on the
Biological Com	footprint creep; in order to minimize the mortality of wildlife species, biologic implemented to identify and eventually relocate fauna species will perform pre-construction surveys in the areas where tem (not earlier than 7 days before). The survey will focus on faun and reptiles) that cannot move ahead of construction. If any		purpose, limits of temporary and permanent facilities will be clearly signed in order to reduce the risk of footprint creep;	-	Weekly monit
		in order to minimize the mortality of wildlife species, biological surveys (pre-construction surveys) will be implemented to identify and eventually relocate fauna species. Company's Biodiversity Assistant Specialist will perform pre-construction surveys in the areas where temporary and permanent facilities will be located (not earlier than 7 days before). The survey will focus on fauna species with limited mobility (e.g., mammals and reptiles) that cannot move ahead of construction. If any of these species are observed, they will be collected by the -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 characteristics and prey availability, at a minimum distance of 50 m from 		

consumption records

- on data resources invoices
- ecords
- on amount of generated wastes
- nce records of machinery and equipment

reports results of invasive flora species within and construction site

ons records of fauna species, and in particular of the eptile species of conservation concern within and around

f accidents involving wildlife

f observation of live animal or carcasses along the access the construction site

onitoring results of the riverbank

Component	Phase	Project action	Mitigation measures	Monitoring
			the Project footprint during construction phase. If essential works are required in winter, when tortoise are hibernating, then the works area should be checked carefully for hibernation burrows. If a reptile is found during such works and it is hibernating, it should be carefully moved to an alternative part of the site that will remain undisturbed. If this is not possible, then the animal should be taken in to care until it can be released on site, the following spring.	
			The monitoring of the activity of the identified species of conservation concern Marbled Polecat (Vormela peregusna, VU) will be performed, through the use of endoscopic cameras located within the burrows. If any living specimen is observed and essential works that involve breaking ground are required in the areas where burrows are present, a gradual increase of the level of disturbance over a few days (at least 4 consecutive days) will be implemented, in order to allow for the animal to autonomously leave the burrow before it is fully excavated (e.g., day 1 machinery and equipment bought to the working area, day 2 manual excavation, day 3 mechanical excavation in the vicinity of the borrow).	
			vehicle movement will be restricted to the Project Site and the existing roads that connect the construction sites with the surrounding areas. Off road driving will be prohibited in order to avoid any unnecessary disturbance of natural vegetation.	
			•	
			2) emission of noise:	
			 night works will be avoided to reduce impacts on nocturnal fauna species; 	
			Imiting the number and the speed of vehicle movements along the existing access roads.	
			3) emission of particulate matter:	
			Dust deriving from construction material handling will be minimized by using covers and/or control equipment (water suppression, bag house, or cyclone) and increasing the moisture content by water spraying.	
			Speed limit for all vehicles will be implemented so as not to generate dust emissions, and all trucks will be properly maintained at all times.	
			Internal roads will be adequately compacted, maintained, and sprayed with water if needed, to minimize dust from vehicle movements. If water spraying is deemed insufficient, other means of surface treatment (e.g., hygroscopic media, such as calcium chloride, and soil natural–chemical binding agents) for unpaved internal roads will be implemented, by using a sprinkler system or a "water-mist cannon".	
			4) increase of traffic:	
			 install speed limits and animal crossing signs on the access roads. 	
			 avoid the accumulation of stagnant water and organic waste within the construction site and on the roads, that could attract wildlife. 	
			if fauna species are encountered employees and contractors will wait until it moves on by itself or they will ask the assistance of the - authorized personnel trained in reptile transport and/or Company's Biodiversity Assistant Specialist for its safe removal and relocation in a suitable environment.	
			awareness among employees and contractors working on site about the protected species/habitats potentially present in the area will be developed, in order to ensure constant monitoring and promote actions to be taken if wildlife is encountered.	
			5) accidental introduction and spreading of alien species:	
			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 eradication program will be developed and implemented.	
			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	

ng measures

Component	Phase	Project action	Mitigation measures	Monitoring meas
			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 (Abeli & Dixon, 2016 ³).	
		Plant/infrastructure operation	Avoidance measures have been considered particularly during the design of the facilities and include:	 Floristic and
			 minimisation of the footprint of individual facilities. 	 Monitoring re photovoltaic
			 utilization of the existing modified habitat for placement of temporary facilities was prioritized as much as possible. 	 Terrestrial fa Records of a
			1) <u>Presence of permanent infrastructures</u> :	animal or car areas occupi
			The areas occupied by the new permanent infrastructures will be fenced but modification to fencing will be made in order to minimize the barrier effect. Modifications to fencing can involve maintaining gaps between the base of the fence and the These gaps will occur at regular intervals along the fence line, with a frequency of 1 gap every 100 m. In addition, each single gap could have a height of 10 cm and a width of 1 m.	areas occupi
			 Non-reflective coating are applied to the 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 (see section Error! Reference source not found.).	
			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.	
			2) <u>Emission of noise</u> :	
			No additional minimization measures are deemed necessary in addition to those included in Chapter 7.1.2.	
	ation		3) <u>Emission of light</u> :	
	Operation		 it is recommended to keep the number of light sources to the minimum; 	
	0		preferred types of light in exterior lighting (e.g.: lights on site due to security reasons) applications are:	
			- low pressure sodium lamps (SOX);	
			 light emitting diodes (LEDs): light source of choice, emitted more directional, warmer colour temperatures (closer to 3000°K); 	
			 light 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); 	
			 high pressure sodium lamps (SON): brighter pinkish-yellow lamps, used as road lighting. 	
			4) <u>Introduction of alien species</u>	
			 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 eradication program will be developed and implemented. 	
			Areas cleared of vegetation under the PV panels will be restored, as soon as possible, with the goal of recreating the original natural habitat and possibly enhancing flora species richness and diversity. The restoration will be based on a long-term plan, with the aim of producing a stable vegetative cover to minimize erosion, dust deposition and spreading of invasive alien species.	
			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	

³ Abeli T. & Dixon K. (2016). Translocation ecology: the role of ecological sciences in plant translocation. Plant Ecology. 217. 10.1007/s11258-016-0575-z.

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nd vegetational monitoring report results.

g results of invasive flora species in the areas under the aic panels

I fauna monitoring results

of accidents involving wildlife or the observation of live carcasses along the permanent access roads or in the cupied by permanent infrastructures

Component	Phase	Project action	Mitigation measures	Monitoring mea
			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 (Abeli & Dixon, 2016 ³). Literature shows that the construction of Solar Power Plants (SPPs) in desertic and steppe areas, which are often chosen because of their insolation rates and subsequent great potential for producing solar power, could determine positive effects for biodiversity, in terms of increased plant diversity and increased plant biomass (Bai <i>et al.</i> , 2022 ⁴ ; Graham <i>et al.</i> , 2021 ⁵ ; Hassanpour <i>et al.</i> , 2018 ⁶). The positive effects derive primarily from the shade offered by the PV panels, which determines a decrease in temperature and in increase in soil moisture in the areas under the panels (Tanner <i>et al.</i> , 2020 ⁷). There could be beneficial effects also per terrestrial fauna species, in particular for small-sized mammals, reptiles and birds, which could find protection from predators offered by the fence and the PV panels	

⁴ Bai Z., Jia A., Bai Z., Qu S., Zhang M., Kong L., Sun R., Wang M. (2022). Photovoltaic panels have altered grassland plant biodiversity and soil microbial diversity. Front Microbiol. 2022 Dec 15;13:1065899. doi: 10.3389/fmicb.2022.1065899. PMID: 36590393; PMCID: PMC9797687. ⁵ Graham M., Ates S., Melathopoulos A., Moldenke A., DeBano S., Best L. and Higgins C. (2021). Partial shading by solar panels delays bloom, increases floral abundance during the late-season for pollinators in a dryland, agrivoltaic ecosystem. Scientific Reports. 11. 7452. 10.1038/s41598-021-86756-4. ⁶ Hassanpour E., Selker J. and Higgins C. (2018). Remarkable agrivoltaic influence on soil moisture, micrometeorology and water-use efficiency. PLOS ONE. 13. e0203256. 10.1371/journal.pone.0203256. ⁷ Tanner K. E., K. A. Moore-O'Leary, I. M. Parker, B. M. Pavlik, and R. R. Hernandez. (2020). Simulated solar panels create altered microhabitats in desert landforms. Ecosphere 11(4):e03089. 10.1002/ecs2.3089.

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 11: 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 Energi 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	ESMPStakeholder Engagement Plan		
IFC PS2: Labour and Working Conditions	 Human Rights Management Plan Camp Site and Offsite Accommodation Management Plan 		

Table 3: ESMPs

Relevant IFC PS	Plans / Procedures		
	Labor Management Plan		
	 Contractor Management Plan 		
	 Supplier Management Plan 		
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 BİLGİLERİ (İsminizin gizli kalmasını tercih ediyorsanız lütfen boş bırakın. Bildirimleriniz Proje Yönetimi tarafından aynı şekilde değerlendirilecektir.)						
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:	an kişi		alındığını teyit eden imza			
 Diğer (lütfen kim olduğunu beliri 	tin)					
PROJE HAKKINDAKİ YORUMLARINI	Z (Gerekirse savfanır	n arka kısmında	n devem edebilirsiniz)			
Yorum/Şikayetinizi tanımlayın (Ge Yorum/Şikayetle İlgili Olay Tarihi		kishindan dev				
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	

