

**TÜRKİYE PUBLIC AND MUNICIPAL RENEWABLE ENERGY PROJECT
(PUMREP)**

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

SPP-1: 3,168.63 kWp/2500 kWe

SPP-2: 3,070.53 kWp/2500 kWe

**Solar (Photovoltaic) Power Plant Projects
of Kepez Municipality**

NOVEMBER, 2025

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Abbreviations

AFAD	Disaster and Emergency Management Presidency
AoI	Area of Influence
CITES	Convention on the International Trade in Endangered Species of Wild Flora and Fauna
EIA	Environmental Impact Assessment
EHS	Environmental Health and Safety
ESF	Environmental and Social Framework
ESMP	Environmental and Social Management Plan
ESMR	Environmental and Social Monitoring Report
ESMS	Environmental and Social Management System
EPDK	Energy Market Regulatory Agency
ESS	Environmental and Social Standard
ETL	Energy Transmission Line
E&S	Environmental and Social
EU	European Union
FI	Financial Intermediary
GHG	Greenhouse Gas
GIS	Geographical Information Systems
GIIP	Good International Industry Practice
GM	Grievance Mechanism
IFIs	International Finance Institutions
IA	Impact Assessment
ILO	International Labor Organization
ILBANK	İller Bankası A.Ş.
KPIs	Key Performance Indicators
LOTO	Lockout Tagout
MoEUCC	Ministry of Environment, Urbanization and Climate Change
OG	Official Gazette
OHS	Occupational Health and Safety
PIU	Project Implementation Unit
PPE	Personal Protective Equipment
PUMREP	The Turkish Public and Municipal Renewable Energy Project
RCA	Root Cause Analysis
RE	Renewable Energy
SEA/SH	Sexual Exploitation, Abuse and Harassment
SEP	Stakeholder Engagement Plan
SPP	Solar Power Plant
SPP-1	3,168.63 kWp / 2500 kWe Solar (Photovoltaic) Power Plant Project of Kepez Municipality

SPP-2	3,070.53 kWp / 2500 kWe Solar (Photovoltaic) Power Plant Project of Kepez Municipality
Sub-Project	SPP-1: 3,168.63 kWp / 2500 kWe., SPP-2: 3,070.53 kWp / 2500 kWe Solar (Photovoltaic) Power Plant Project of Kepez Municipality
TAP	Türkiye Portable Battery Manufacturers and Importers Association
TurkStat	Turkish Statistical Institute
UICN	International Union for the Conservation of Nature
WB	World Bank
WBG	World Bank Group

Glossary of Terms

Associated facilities	<p>Facilities or activities that are not funded as part of the Subproject and are:</p> <p>(a) directly and significantly related to the project;</p> <p>(b) carried out, or planned to be carried out, contemporaneously with the project; and</p> <p>(c) necessary for the project to be viable and would not have been constructed, expanded or conducted if the project did not exist.</p> <p>For facilities or activities to be Associated Facilities, they must meet all three criteria.</p>
Contractor	<p>A person or organization providing services to an employer at the client worksite in accordance with agreed specifications, terms and conditions.</p>
Excavated material	<p>Materials/soils that are generated as a result of excavation and other similar activities carried out prior to construction</p>
Legally protected area	<p>Designated terrestrial, aquatic or marine ecosystems managed under the related legislation to protect and sustain the biodiversity features, natural and associated cultural resources.</p> <p>Legally protected areas of Türkiye include a diversity of natural ecosystems and associated features ranging from coastal zones to mountains, deltas, forests, plains, steppe, lakes, river systems, deep valleys, canyons, and glaciers.</p>
Material borrow site	<p>Sites, where loose material containing gravel, sand, silt, and clay, which is formed by the natural and geological processes of rock fracturing, fragmentation, alteration, transportation, and/or in-situ sedimentation, and which has the characteristics of slope debris, are extracted to be used as fill material.</p>
Off-site accommodation	<p>Accommodation of workers at hotels, rented housing, etc. available in the vicinity of Subproject area.</p>
On-site accommodation	<p>Accommodation of workers at temporary exploration camps, construction camps, dormitories, etc. established for the Subproject on site.</p>
Risk	<p>A combination of the likelihood of an occurrence of a hazardous event and the severity of injury or damage to the health of people caused by this event.</p>
Topsoil	<p>Part of soil that provides organic and inorganic materials, air and water required for vegetative growth, and is required to be stored separate from the subsoil.</p>

EXECUTIVE SUMMARY

The Public and Municipal Renewable Energy Project (PUMREP), financed by the World Bank (WB) with İller Bankası A.Ş. (İLBANK) as the Financial Intermediary (FI), marks a significant step towards sustainable energy solutions and enhanced energy security for the public sector in Türkiye. The primary objectives of the PUMREP include scaling up renewable energy use in public sector buildings and municipalities, reducing energy bills, and demonstrating leadership in the public sector's commitment to sustainable energy solutions and climate mitigation. The sub-projects to be financed under PUMREP include the installation of renewable energy facilities by Kepez Municipality with a capacity of SPP-1: 3,168.63 kWp / 2500 kWe, SPP-2: 3,070.53 kWp / 2500 kWe. These sub-projects are located in the Varsakyaylası Neighborhood of the Korkuteli district in Antalya province.

Kepez Municipality will manage all works related to the construction and operation of this sub-project, ensuring effective implementation and operation of the renewable energy facilities under the PUMREP.

Kepez Municipality's of SPP-1: 3,168.63 kWp / 2500 kWe, SPP-2: 3,070.53 kWp / 2500 kWe Solar Power Plant Project is planned to be established in Antalya province, Korkuteli district, Varsakyaylası Neighborhood, lot 161 of 159 block. The electricity generated at the SPP-1 and SPP-2 facilities will be transferred to the grid via a shared transmission line to be constructed with an approximate length of 500 meters. The proposed route of the transmission line passes through privately owned lands, which has necessitated an establishment of an easement right. The Establishment of an easement right for the parcels located along the route are being carried out by the relevant distribution company, Akdeniz Electricity Distribution Inc. (Akdeniz EDAŞ). Within the scope of the PUMREP (Project) sub-project, the area where the Solar Power Plants will be established is public treasury land and has been allocated to Kepez Municipality by the National Real Estate Directorate. The land title deed is included in Annex-C.

In today's conditions, meeting the increasing energy needs from fossil sources in order to meet the needs of the growing population brings with it many global problems, primarily climate change, with carbon emissions. Transitioning from fossil fuels to renewable energy sources represents a pivotal strategy in combating climate change, the impacts of which have become increasingly evident in recent years. By promoting the use of renewable energy, the PUMREP offers a pathway to achieving sustainable development across environmental, social, and economic dimensions. With the commissioning of the sub-projects, approximately 96.7% of the annual electricity consumption of Kepez Municipality will be met. The energy produced in both sub-projects is equivalent to the energy used by a total of 3900 households. At the same time, 5,927 tons of carbon emissions will be prevented annually. Approximately 148,175 tons of carbon emissions will be prevented throughout the life of the sub-projects.

The sub-project is in the Moderate Risk category according to the Risk Scan conducted within the scope of the İLBANK Environmental and Social Management System (ESMS) and the World Bank Environmental and Social Framework (ESF). One of the tasks within the scope of the subproject is the preparation of this Environmental and Social Management Plan (ESMP) in accordance with İLBANK's ESMS and WB ESF, applicable Environmental and Social Standards (ESSs), World Bank Group (WBG) General Environmental Health and Safety (EHS) Guidelines and Industrial Sector Guidelines, and national legislation in force in Türkiye. The plan outlines the necessary measures and guidelines to ensure that the environmental and social impacts of the sub-project are effectively managed throughout the construction and operation phases.

The ESMP for the sub-project outlines the measures to reduce the potential environmental and social impacts throughout the life cycle of the sub-project. This plan is important to ensure that the projects comply with national and international environmental regulations and social guarantees. The ESMP for the sub-project outlines the measures to reduce the potential environmental and social impacts throughout the life cycle of the sub-project. This ESMP is important to ensure that the sub-projects comply with national and international environmental regulations and social guarantees.

In line with EIA regulation published in the Official Gazette dated 25.11.2024 and numbered 29186, the facility subject to the sub-project was assessed as "EIA out of scope" as its capacity is less than the threshold value in the EIA Regulation Lists. The letter for "EIA out of scope" was received on 26.04.2022 and numbered 23822202 220-02 E-2022354 from the Antalya Governorship Environment and Urbanization Provincial Directorate. (See Annex B).

The closest settlement to the area where the facility will be built is Varsakyaylası Neighborhood 500 m away.

Within the scope of the project planned to be implemented in the Kepez district of Antalya province, two Stakeholder Consultation Meetings (SCM) were organized to inform the local community and collect their opinions. The first meeting was held on 18 August 2025, during which participants expressed concerns that the project might contribute to climate change, harm the natural environment and climate cycles, that the proximity of the Solar Power Plant (SPP) to the neighborhood could have negative impacts on residential areas, and that the community might not directly benefit from the electricity production.

Taking these views into consideration, a second meeting was organized on 30 September 2025, where scientific explanations were presented to address public concerns. During this meeting, it was clarified that the project does not contribute to climate change, does not pose a threat to living environments, and would not negatively affect the direction of the neighborhood's development. It was also emphasized that local employment would be prioritized within the scope of the project and that project revenues would contribute to local public services.

In line with the concerns raised during the meetings, the project communication plan was strengthened, activities aimed at increasing public awareness were enhanced, and the principle of giving priority to local employment was incorporated into project planning documents. Furthermore, evaluations were carried out to ensure that feedback from the community would be taken into account in the monitoring of environmental impacts. The minutes of both stakeholder consultation Meetings (SCMs) are provided in Annex S and Annex T.

1 INTRODUCTION

1.1 Background

The Public and Municipal Renewable Energy Project (PUMREP) aims to increase the use of renewable energy through self-generation in public facilities. The Project will contribute to expanding the distributed renewable energy (RE) market in public facilities help demonstrate leadership in the public sector to use sustainable energy solutions to deliver on the country's climate mitigation commitment and enhance energy security.

The PUMREP is financed by World Bank (WB) to support introducing RE technologies in municipalities. İller Bankası A.Ş. Department of International Relations (ILBANK) acts as the Financial Intermediary (FI). The project will be implemented through 4 components:

Component 1: Renewable energy investments in central government facilities

Component 2: Renewable energy investments in municipalities

Component 3: Technical assistance and project implementation support

Component 4: Contingent Emergency Response Component

Kepez Municipality (here in after referred to as “the Sub-borrower”) has applied to ILBANK for sub-financing of Kepez Municipality SPP-1: 3,168.63 kWp / 2500 kWe, SPP-2: 3,070.53 kWp / 2500 kWe (here in after referred to as “the Sub-project”) under Component 2. The sub-project is located in insert Antalya Province, Korkuteli District, Varsakaylası Neighborhood.

ILBANK has established an **Environmental and Social Management System (ESMS)** effective on **24th of Dec 2023**. The ESMS is aligned with the requirements of World Bank (WB) Environmental and Social Framework (ESF, 2018) including Environmental and Social Standards (ESSs) forming part of the ESF, and E&S policies and standards of other International Financial Institutions (IFIs) ILBANK collaborates with. It will be applicable to all ILBANK projects and Subproject financed through International Financial Institutions (IFIs).

The ESMS is aimed at ensuring systematic identification, assessment, management, monitoring, and reporting of the environmental and social (E&S) risks and impacts of the **projects and Subproject financed by the International Finance Institutions (IFIs)**. This process will be implemented on an ongoing basis throughout their loan duration in line with the requirements of the national legislation, international agreements and conventions ratified by Türkiye and E&S standards of lending **IFIs** (World Bank for the PUMREP). As a critical element of the ESMS, ILBANK has adopted and published an **E&S Policy¹** applicable to all ILBANK projects and Subproject financed through IFIs.

Within the scope of the ILBANK's ESMS and World Bank Environmental and Social Framework (ESF), Subproject are classified as High Risk, Substantial Risk, Moderate Risk or Low Risk taking into account relevant potential risks and impacts, such as the type, location, sensitivity and scale of the Subproject; the nature and magnitude of the potential E&S risks and impacts; the capacity and commitment of the sub-borrower; and other relevant areas of risks that may result in unintended impacts.

ILBANK considers financing the sub-project under the PUMREP. In line with the ESMS, ILBANK carried out an E&S screening and risk classification of the sub-project and rated the activity as having “**Moderate**” E&S risk. The Sub-borrower has retained a third-party consultancy company for the preparation of the E&S instruments required as per the E&S risk category assigned to the sub-project.

This Environmental and Social Management Plan (ESMP) has been prepared by CA Engineering for the sub-project in line with the applicable E&S requirements as set out in Section 1.3. List of the Individuals/Organizations that Prepared or Contributed to the ESMP development is presented in Annex A.

A stand-alone Stakeholder Engagement Plan (SEP) has also been developed for the sub-project.

¹ <https://www.ilbank.gov.tr/sayfa/ilbank-environmental-and-social-policy>
<https://www.ilbank.gov.tr/sayfa/ilbank-cevresel-ve-sosyal-politika-dokumani>

1.2 Objective of the ESMP

This ESMP has been prepared to detail the measures to be taken during the implementation and operation (throughout the sub-financing agreement life cycle) of the sub-project to eliminate or offset adverse E&S impacts, or to reduce them to acceptable levels; and the actions needed to implement these measures.

1.3 Overview of E&S Requirements Applicable to the Subproject

The Subproject will be implemented in compliance with the requirements of the applicable national legislation and international agreements and conventions to which Türkiye is a party of, and in accordance with the following requirements:

- İLBANK Environmental and Social Management System,
- WB Environmental and Social Framework (ESF, 2018) and the Environmental and Social Standards (ESSs) forming part of the ESF,
- WB Group General Environmental, Health and Safety Guidelines (EHSGs) (2007),
- GIIP,
- WBG EHS Guidelines for Electric Power Transmission and Distribution (2007).

Table 1 identifies the relevance of the WB ESSs to the Subproject.

Table 1. Relevance of the WB ESSs to the Subproject

ESSs	Definition	Relevance to the Subproject
ESS 1	Assessment and Management of E&S Risks and Impacts	Relevant
ESS 2	Labor and Working Conditions	Relevant
ESS 3	Resource Efficiency and Pollution Prevention and Management	Relevant
ESS 4	Community Health and Safety	Relevant
ESS 5	Land Acquisition, Restrictions on Land Use and Involuntary Resettlement	Relevant
ESS 6	Biodiversity Conservation and Sustainable Management of Living Natural Resources	Relevant
ESS 7	Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities	Not relevant to Subproject
ESS 8	Cultural Heritage	Relevant
ESS 9	Financial Intermediaries	Not relevant to Subproject
ESS 10	Stakeholder Engagement and Information Disclosure	Relevant

When national requirements differ from the levels and measures presented in the EHSGs, the sub-project will achieve or implement whichever is more stringent.

A summary of the national legislation and international standards applicable to the management of environmental, social, health, and safety aspects of the sub-project is provided in Annex J

1.4 Review and Update

This ESMP will be reviewed and updated by the Sub-borrower during sub-project implementation as necessary to reflect changes in national legislative framework, ILBANK's policies and other developments or in specific circumstances such as in case there are changes in the organization structure, following significant incidents, following incorporation of new tools, software or database into the ILBANK E&S Risk Management System, etc.

The Sub-borrower will notify ILBANK of any update to the ESMP.

The Sub-borrower will ensure that changes to the ESMP do not result in deviation from the requirements set forth by the national legislation and the E&S requirements applicable to the sub-project.

1.5 Implementation Arrangements

The Sub-borrower will hold ultimate responsibility for implementation of this ESMP by the Sub-borrower and contractor teams (engaged in connection with the sub-project – including sub-contractors) throughout the sub-financing agreement life cycle.

The Sub-borrower will ensure that adequate financial and human resources for effective ESMP implementation are available at sub-borrower, supervision consultant and contractor organizations throughout the sub-financing agreement life cycle.

The Sub-borrower will decide on the arrangements for the operation of the sub-project and be responsible for ensuring that operations are compliant with the national legislation and Operation ESMP.

The roles and responsibilities of the Sub-borrower, contractor and sub-contractor teams regarding the ESMP implementation are described in Chapter 5.

This ESMP provides instructions, responsibilities and guidelines to the responsible parties, as well as a set of mitigation, monitoring and institutional measures to be taken during the construction and operation of the sub-project to prevent or reduce potential adverse environmental and social impacts to acceptable levels. Technical parameters for all monitoring requirements are defined, along with appropriate responsibilities and reporting procedures. In addition, a Grievance Mechanism (GM) for receiving and evaluating all grievances, concerns and comments regarding the sub-project is specified in the sub-project specific SEP. The ESMP has identified mitigation measures and monitoring activities to reduce and avoid impacts and risks associated with the sub-project. A summary of mitigation measures is provided in [Table 22](#) and [Table 23](#).

During the construction and operation phases, PIU assigned by Kepez Municipality will ensure compliance with national and international legislation.

1.6 Sub Project Benefits

The sub-project not only provides environmental sustainability but also significant socio-economic benefits at local and national levels. In this context, the following contributions of the project stand out:

Increasing Electricity Supply Security

The sub-project contributes to increasing national energy supply security by enabling electricity production from sustainable and renewable energy sources. With the commissioning of the solar power plant, external dependency is reduced and stability in energy supply is strengthened.

Promotion of Renewable Energy Use

The sub-project contributes to the goal of a carbon-neutral future by supporting clean energy production. In this way, it is possible to reduce fossil fuel use and accelerate the transition to renewable energy.

Employment Opportunities (During Construction and Operation Period)

A significant number of local workforce is provided employment opportunities during the sub-project, especially during the construction and assembly period. In addition, a sustainable employment area is created for technical personnel during the operation and maintenance period. This situation contributes positively to the reduction of local unemployment.

Contribution to Local Economy and Services

The investment made in the region with the sub-project ensures the strengthening of the local supply chain, the revival of the service sector (logistics, accommodation, food, etc.) and the increase of indirect economic contributions. This creates an effect that supports rural development.

Contribution to the Reduction of Greenhouse Gas Emissions

The subprojects are expected to generate enough electricity to power approximately **3,900 households**, covering nearly **96.7%** of Kepez Municipality's annual energy consumption. By replacing fossil fuel-based electricity with renewable energy, the project will help prevent around **5,927 tons of carbon emissions each year**, contributing a total reduction of **approximately 148,175 tons** over its 30-year operational lifetime. Beyond its local energy benefits, the long-term operation of the SPP plays an important role in supporting national climate goals by reducing carbon dioxide and other greenhouse gas emissions.

2 SUBPROJECT DESCRIPTION

2.1 Subproject Information

The sub-project activity subject is related to the establishment and operation of "Kepez Municipality Solar Power Plant (SPP-1: 3,168.63 kWp / 2,500 kWe., SPP-2: 3,070.53 kWp / 2,500 kWe by Kepez Municipality on lot161 of block 159 within the borders of Varsakyaylası Neighborhood, Korkuteli District, Antalya Province.

Lot161 of block 159 where the sub-project subject activity will be carried out is a qualified land. The sub project was determined as the Environmental Impact Assessment (EIA) is not required according to the Turkish EIA Regulation published in the Official Gazette dated 25.11.2014 and numbered 29186 (revised in the Official Gazette dated 29.07.2022 and numbered 31907).

The main objectives of the sub-project are; to produce electricity using solar energy, which is a renewable energy source, together with the solar energy panels to be installed within the scope of the sub-project. In this way, Kepez Municipality is to use the budget allocated for electricity more efficiently.

Continuously increasing energy demand and the constant increase in electricity costs increases the institution's expenses very seriously.

Reducing carbon emissions in line with environmental policies and international agreements, such as the Paris Agreement, the European Green Deal, and national renewable energy targets is another key factor of this project.

Meeting the energy need with renewable energy is one of the most important needs of our future. Especially choosing solar energy technology makes it stand out due to its price/performance situations in terms of installation, maintenance, repair, operation and cost. Compared to traditional fossil fuel-based power plants, such as coal and natural gas, as well as other renewable sources like wind and hydropower, solar energy generally offers lower operational costs, minimal maintenance, and scalability.

The Kepez Municipality SPP-1 (3,168.63 kWp / 2500 kWe) and SPP-2 (3,070.53 kWp / 2500 kWe) projects aim to reduce the electricity budget of Kepez Municipality by meeting 96.07% of its electricity consumption. In this way, the municipality will be able to allocate its energy budget more efficiently. At the same time, the projects will support environmental protection and human health by utilizing a sustainable energy source.

The Kepez Municipality SPP-1: (3,168.63 kWp / 2500 kWe, SPP-2: 3,070.53 kWp / 2500 kWe) projects aims to reduce the electricity budget of Kepez Municipality by meeting 96.07% of its electricity consumption. In this way, the municipality will be able to use the budget allocated for energy needs more efficiently. Simultaneously, the sub- project will contribute to the protection of both the environment and human health by utilizing a sustainable energy source.

Key technical information on the sub-project is summarized in Table 2. Further information on the construction and operation phase activities and facilities in the following sections in this Chapter.

Table 2. Key Technical Information on Subproject

SPP	Information	Remarks/ Notes
SPP-1	Technology	Photovoltaic
	Installed Power	3,168.63 kWp
	Connection Power	2,500 kWe
	Annual Electricity Generation	4,854 MWh
	Solar Panel Type	545 Wp (monocrystalline panel)
	Annual Carbon Emission Reduction	3,008 ton
	Lifetime Carbon Emission Reduction	75,200 ton
	Households Powered	1,950
	Economic Life of the Power Plant (Operation Duration)	30

SPP	Information	Remarks/ Notes
SPP-2	Technology	Photovoltaic
	Installed Power	3,070.53 kWp
	Connection Power	2,500 kWe

Annual Electricity Generation	4,710 MWh
Solar Panel Type	545 Wp (monocrystalline panel)
Annual Carbon Emission Reduction	2,919 ton
Lifetime Carbon Emission Reduction	72,975 ton
Households Powered	1,950
Economic Life of the Power Plant (Operation Duration)	30

2.1.1 Subproject Location

Information on the sub-project location is presented in Table 3. The land determined for the SPP-1: 3,168.63 kWp / 2500 kWe, SPP-2: 3,070.53 kWp / 2500 kWe SPP projects planned to be carried out by the Kepez Municipality (lot 161 of 159 block) belongs to the Kepez Municipality. It is registered as a land in the land registry. There is no agricultural or animal husbandry activity within the lot.

Table 3. Subproject Location

Information	Remarks/ Notes
Province	Antalya
District	Korkuteli
Neighborhood/ Village	Varsakyaylası Neighborhood
Land Area (ha)	SPP-1: 7.89 ha (lot161 of block 159) SPP-2: 7.89 ha (lot161 of block 159))
Land Use Type according to Title Deed	Plot
Current Land Use	<p>There is no agricultural or animal husbandry activity area or commercial enterprise on the land. It has not been used as a commercial enterprise by the municipality or 3rd parties before. There is no area around the SPP land where agricultural and livestock activities are carried out. The sub-project area is registered as lot161 of block 159 as land in the land registry. Its ownership belongs to Kepez Municipality.</p> <p>In the meeting held with the association chairman H**** K**** on 06.11.2024 within the scope of the sub-project and in the meetings held with the relevant municipality personnel, it was determined that the field was not used by the highland residents.</p> <p>During the site visits conducted on 06.11.2024 and 16.04.2025, it was observed that there is a residential structure located within the sub-project parcel where sub-project activities will be implemented. Additionally, trees were identified in the northeastern and western parts of the parcel. Some of the trees in the northeastern section appear to extend from the neighboring parcel into the sub project area. It was also noted that there is an unregistered footpath located to the west of the parcel, which is not included in the zoning plan. All these elements have been examined in detail in the report, and the outcomes of stakeholder consultations have been incorporated accordingly.</p>
Other Nearby Facilities and Activities	There are no other industrial or commercial activities operated/run or planned by the Sub-borrower itself or other public or private third parties in the vicinity of the sub-project or its components/associated facilities.

A map of the Subproject location is presented in Figure 1.

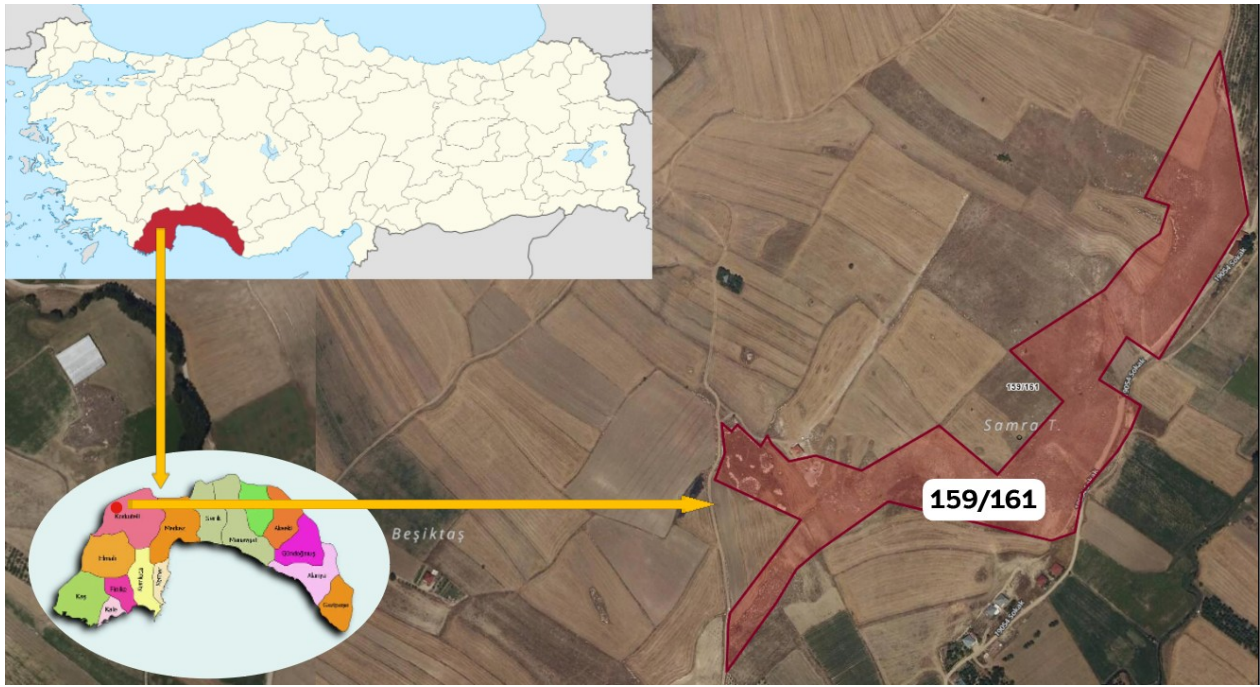


Figure 1. Map of Subproject Location



Figure 2. SPP Sub-project Site

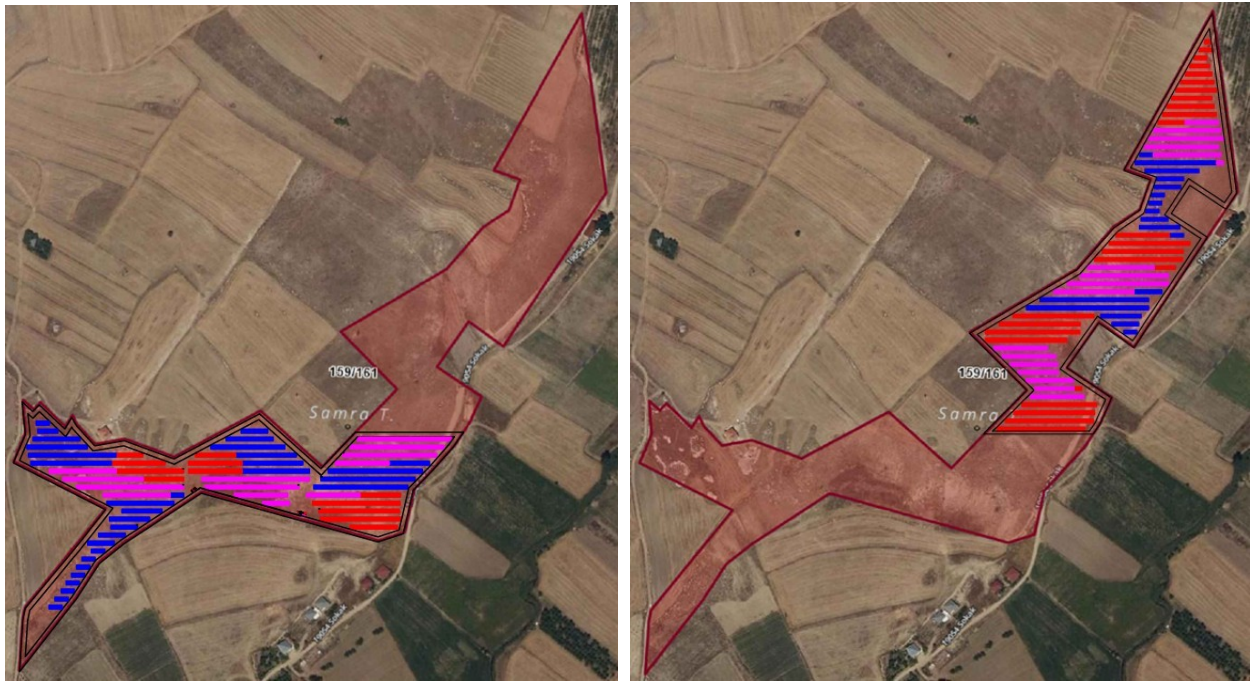


Figure 3. Sub-project Site Layout Plan (SPP-1 and SPP-2)

Table 4. Coordinates of the Sub-project Area

Unit	Coordinates (WGS84 in decimals)	
	Y	X
159/161	37.1687	30.0610
	37.1683	30.0621
	37.1682	30.0619
	37.1680	30.0618
	37.1679	30.0617
	37.1674	30.0612
	37.1673	30.0612

37.1668	30.0612
37.1675	30.0618
37.1678	30.0620
37.1680	30.0623
37.1684	30.0630
37.1685	30.0632
37.1681	30.0653
37.1682	30.0656
37.1686	30.0657
37.1688	30.0660
37.1690	30.0662
37.1692	30.0663
37.1695	30.0665
37.1698	30.0659
37.1702	30.0663
37.1700	30.0667
37.1715	30.0679
37.1731	30.0675
37.1716	30.0665
37.1716	30.0668
37.1713	30.0667
37.1711	30.0664
37.1707	30.0660
37.1701	30.0648
37.1695	30.0655
37.1692	30.0651
37.1688	30.0646
37.1693	30.0639
37.1688	30.0629
37.1690	30.0623
37.1689	30.0619
37.1691	30.0617
37.1692	30.0617

2.1.2 Site Access Road

Access to the SPP site will be made from the Korkuteli-Tefenni road Varsak upland junction. The access road is a stabilized road passing through the upland settlement. The main route determined for the sub-project will be notified to all sub-project employees and warning signs will be placed on the route to be used to enter the sub-project area. During the installation phase, precautions will be taken to prevent local people from being affected by emissions and traffic and are given in the ESMP Matrix.

The selected route is suitable for heavy vehicles and provides sufficient width and structural integrity for the transport of construction and installation equipment. The road is currently in good condition and does not require any expansion or reinforcement works.

Detailed photographs of the access road, taken from different points along the route, are provided in Annex D to demonstrate its width, surface quality, and suitability for heavy-duty transportation.



Figure 4. Subproject Sites Access Route

2.1.3 Energy Transmission Line (ETL)

Technical information on the ETL is presented in **Table 5**. A map showing the ETL route and the national grid connection location is provided in **Figure 5**. ETL will be constructed within the scope of the associated facility.

Within the scope of the sub-project, ETL will be newly constructed and will be used jointly for SPP-1 and SPP-2. It is the responsibility of Akdeniz EDAS to initiate the necessary works for easement. The works in question will be completed before the project tender. There are private lands along the ETL route to be constructed. All establishment of an easement right operations will be carried out by Akdeniz EDAS based on the text in Annex B. The establishment of an easement right will be monitored by Kepez Municipality in adherence to the WB ESS5 standard. Along the ETL route, there are lots 20, 21, 79, 80, 82 of block 101 and lots 106, 112, 161 of block 159 and lots 3 and 4 of block 162 in Varsakyaylası neighborhood of Korkut District, Antalya province. It consists of a total of 10 parcels. The institution's listed owners are listed in Annex R. The area where ETL towers (pylons) to be constructed will be expropriated by Akdeniz EDAŞ.

Table 5. Technical Information on the ETL

Information	Remarks/ Notes
Status of ETL	Overhead Line
Transformer station (for national grid connection)	Mast number 783036 CBS
Length of the route (km)	0.5
Voltage level (kV)	36 kV

Number of ETL towers (pylons)	3
Total footprint area per each ETL tower (m²)	157 m ²
Number of parcels subject to easement rights (“irtifak hakkı”)	Legal easement rights have been secured for the parcels along the ETL route.



Figure 5. Map of ETL Route

2.1 Subproject Area of Influence

The sub-project is located in the Varsakyaylası Neighborhood, Korkuteli District in Antalya Province. The subproject site is approximately 500 meters away from Varsakyaylası neighborhood. The access road passes through Varsakyaylası neighborhood. The sub-project access road does not intersect with any critical infrastructure such as hospitals, fire departments, or educational institutions that provide emergency services.

According to WB ESSs, "where the sub-project involves specifically identified physical elements, matters and facilities that are likely to create impacts, environmental and social risks and impacts shall be identified in the context of the sub-project's Area of influence (AoI)". Within the scope of sub-project activities, the area of influence was determined as a result of interviews with local people and mukhtars during the site visit on 16.04.2025, based on components such as dust emissions, environmental noise, provision of local employment, local people's opinions about the sub-project, etc. and considering the locations of vulnerable and disadvantaged groups.

According to the construction phase dust emissions and environmental noise calculations explained in detail in the ESMP-Checklist, the noise levels that will occur at the sub-project site are dampened after a distance of 50 m and remain below the 65 dBA noise level limit value specified in Table 1 of Annex II of the "Environmental Noise Control Regulation" published in the Official Gazette dated 30.11.2022 and numbered 32029. The sub-project area of influence is shown in Error: Reference source not found.



Figure 6. Sub-project area the nearest settlement and AoI



Figure 7. Distance between the sub-project area and the neighborhood

Therefore, the noise impacts of the subproject are not expected to exceed significant levels beyond a 50-meter radius, and the traffic impacts are anticipated to remain confined within the subproject site, without extending into the surrounding Varsakyaylası neighborhood. The area of influence has been determined by considering these two factors.

There is a house next to the parcel where the sub-project activities will be carried out (See Annex Q). The house is an unlicensed structure that is not included in the zoning plan.

It is expected to be more affected than other residences. Therefore, it has been included within the Aol. It was determined that the house is used by its owner only during the summer months. Although there is a residential building near the parcel, the proposed layout ensures that the solar panels will be positioned behind the house and at a higher elevation, minimizing any potential visual or environmental impact on the dwelling.

The closest sensitive receptor to the sub-project area is a stream bed located 150 meters to the south, with a trout farm situated approximately 240 meters to the southeast. Although these two receptors are not expected to be negatively impacted by sub-project activities, all operations will be conducted with due consideration for their presence (Figure 8).

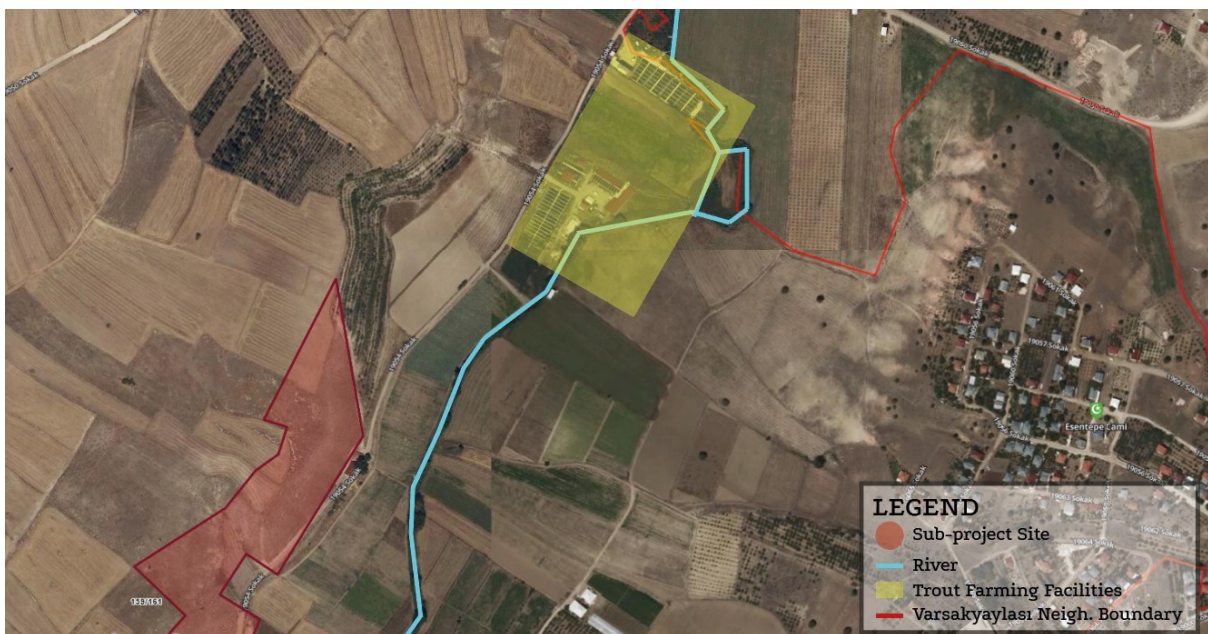


Figure 8. Nearest sensitive receivers

2.2 Environmental and Social Baseline

This section includes information on the physical, biological and socioeconomic status of the sub-project, including the Energy Transmission Line and the near term. The explanations and information provided in this section on the current status of the sub-project area and its immediate surroundings are based on reports from relevant public and private organizations (Ministry of Agriculture and Forestry, Disaster Emergency Management Presidency, General Directorate of Meteorology, Ministry of Environment and Urbanization, Chamber of Industry and Commerce, Turkish Crops Data Service, Turkish Statistical Institute, Provincial Sectoral Action Plans, etc.) on field studies, Geographical Information Systems (GIS) studies and satellite images for environmental physical, biological and socio-economic determinations.

The SPP to be established by Kepez Municipality is located on lot 161 of block 159 in Varsakyaylası Neighborhood, Korkuteli district, Antalya province. There is no agricultural or animal husbandry activity area or commercial enterprise on the land. It has not been used as a commercial enterprise by the municipality or 3rd parties before. There are low-scale, partial dry agricultural areas around the SPP land. In the context of the interviews;

Table 6 presents a summary of the baseline field studies conducted as part of the ESMP study.

Table 6. Summary of Baseline Field Studies

Subject	Date of the Field Study	Experts who Participated in the Field Study
The level of knowledge about the project	06.11.2024 and 16.04.2025	CA Engineering
The demographic structure of the neighborhoods,		
The usage status of the sub-project area		
The socio-economic status of the local people		
Agricultural and animal husbandry activities carried out in the neighborhood		
The status of infrastructure services, access to education and health opportunities		
Opinions, suggestions and concerns about the sub-project, information about vulnerable groups		
Biodiversity (Flora-Fauna)		

2.2.1 Physical Environment

2.2.1.1 Geology

Since Varsak Plateau is a part of the Taurus Mountains, karst structures are found here. Carbonate rocks such as limestone and dolomite are commonly found in the region. The sub-project area consists of soil with high lime content.

2.2.1.2 Topography

The sub-project area is located in the Varsakyaylası Plateau, which has an altitude of 100-1300 meters. It is located on the extensions of the Western Taurus Mountains and has the characteristics of a high plateau and mountainous terrain. The ground of the neighborhood consists of limestone and karst formations. The vegetation is maquis and steppe, as well as forest trees such as pine, juniper and oak on the surrounding slopes.

2.2.1.3 Tectonics and Seismicity

According to the Earthquake Hazard Map of Türkiye, which was published in the Official Gazette dated 18.03.2018 and numbered 30364 and entered into force on 01.01.2019, the maximum expected ground acceleration PGA-475 values in Varsakaylası neighborhood is 0.265 g (tdth.afad.gov.tr). Earthquake maps of the sub-project area are given in Error: Reference source not found. The PGA value determined for the region indicates a medium-high seismic hazard zone with medium risk. According to the Turkish Building Earthquake Regulation published in 2018, this PGA value carries a greater risk compared to the IV and III degree earthquake zones. This value indicates that high earthquake resistance structural design should be made in the structures to be constructed.

2.2.1.4 Soil and Land Composition

According to the data of the Ministry of Agriculture and Forestry National Soil Information System (TURKUBIS, <http://arazi.tarimorman.gov.tr>), the most common soil type in the borders of Varsakaylası Neighborhood is chestnut colored soil. In low-lying areas such as around streams, alluvial and colluvial soils are encountered and these soils have high permeability. In addition, in the transition areas where different soil zones intersect in the region, there are also red-brown, permeable soil types.

2.2.1.5 Meteorology and Climatic Characteristics

According to data received from the General Directorate of Meteorology; the climate in Kepez is warm and temperate, with significantly more precipitation in winter than in summer. According to the Köppen-Geiger classification, the climate is "Csa." The average annual temperature is 17.8 °C, and the average annual precipitation is 1081 mm. The driest month is July, with 1 mm of precipitation, while December is the wettest month, with an average of 225 mm. The difference in precipitation between the driest and wettest months is 224 mm.

The average temperature throughout the year is around 21.6 °C. June has the most daily sunshine, with an average of 12.89 hours per day and a total of 399.47 hours. January has the least daily sunshine, averaging 6.22 hours per day and a total of 192.74 hours. Kepez receives approximately 3519.74 hours of sunshine annually, with a monthly average of 115.56 hours. The visual and table of the climate characteristics of the sub-project area are shared in Annex N.

2.2.1.6 Air Quality

The residents of Varsakaylası Neighborhood reside in scattered locations during the winter months and use the area mainly during the summer months. When this situation is evaluated together with the use of the settlement during a limited period of the year; the air quality is maintained at a high level depending on the factors such as the area's remote location from the city center, high altitude and low human activity density. In addition, fuel-related pollution decreases in direct proportion to the decrease in the number of households in the winter months.

2.2.1.7 Noise

In Türkiye, environmental noise is regulated by the Regulation on the Control of Environmental Noise (2022), which sets noise limits for various zones and time periods. Similarly, the WBG EHS Guidelines establish noise limits for receptors, requiring levels not to exceed specified thresholds or increase background noise by more than 3 dB at nearby off-site receptors. Environmental Noise Control Regulation limit values and estimated calculation values are given in Annex O.

Kepez Municipality, authorized for Environmental Noise Control since 29 June 2006, oversees noise source evaluations, "Live Music Permit" issuance, and implementation of the Strategic Noise Map and Action Plan. A Strategic Noise Map was prepared in 2015 for various sources like highways and industrial facilities. For the sub-project, short-term noise during transport and assembly is expected, but no night work will be conducted, and the 500 m distance from the nearest settlement ensures minimal impact on residents.

According to calculations made with the Free-Field Sound Propagation Model; the noise levels from construction and operation machinery have been calculated, showing compliance with relevant regulations, including the "Regulation on Noise Emission in the Environment Generated by Equipment Used in Open Areas" (2006). Noise at the nearest residential area is estimated to be around 37 dB, well below the regulatory limits. Working hours will be planned to avoid affecting local residents' quality of life, with evaluations following the Regulation on Environmental Noise Control and the WB General EHS Guidelines.

The noise levels from construction and operation machinery have been calculated, showing compliance with relevant regulations, including the 'Regulation on Noise Emission in the Environment Generated by Equipment Used in Open

Areas' (Official Gazette No. 26392, dated 30.12.2006). The sound power levels of the equipment were assessed based on the permissible levels specified in Article 5 of the regulation, using the standard formulas provided therein. In addition, comparative data from similar activities were taken into account in the estimation process. Noise at the nearest residential area is estimated to be around 37 dB, which remains well below the regulatory limits.

2.2.1.8 Water Resources

There are no flowing or dry streams in the sub-project area and its immediate surroundings. However, a stream bed is located approximately 150 meters to the south of the sub-project site, and a trout farm is situated around 240 meters to the southeast. Although both are outside the immediate impact zone, they have been taken into consideration during the environmental assessment.

Nevertheless, it is recommended that insulation and drainage practices be implemented to keep water away from the building foundations in order to protect the building foundation from the negative effects of surface water formed due to precipitation. In addition, no groundwater was encountered in sub-project site.

There is no flood risk zone close to the sub-project area. The map showing the distance of the nearest water source to the sub-project sites is presented in Annex P.

2.2.1.9 Natural Hazards (such as flooding, landslides, fire, etc.)

Mass movements (landslide, rockfall, collapse, creep, soil flow), avalanche etc. risks have not been determined for the sub-project area and there is no flood risk According to the Türkiye Landslide Inventory Map, old-active landslide, creep, flow, slide etc. situations do not exist for the sub-project area.

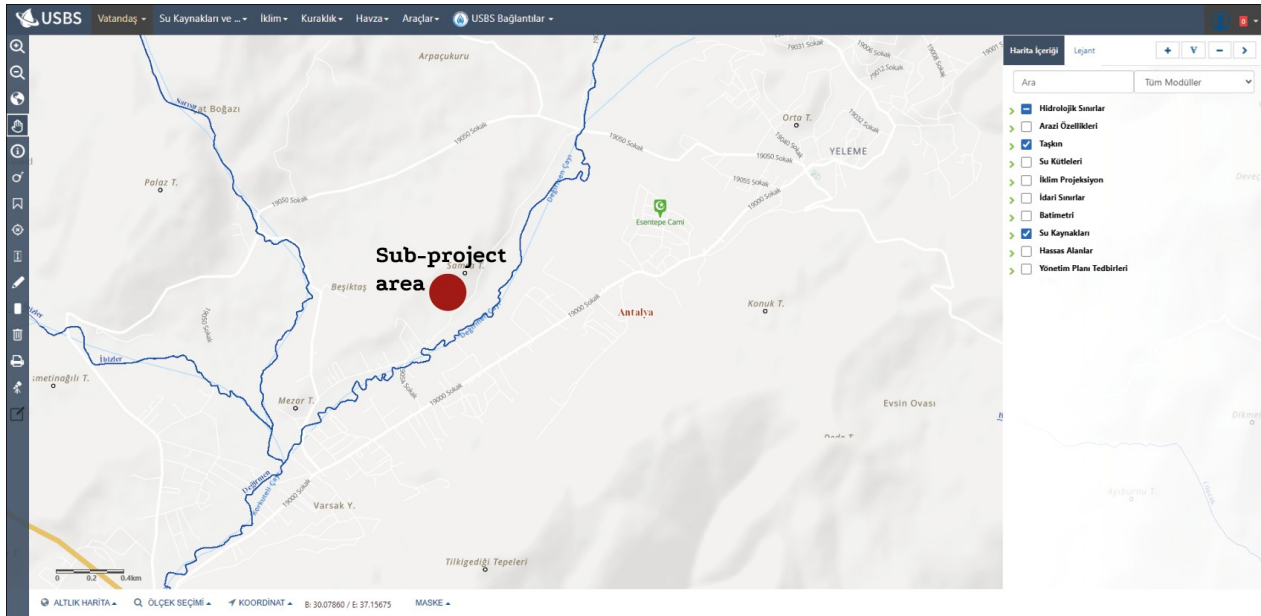


Figure 9. Sub project Area Flood Map (<https://usbs.tarimorman.gov.tr/usbs/VatandasGirisi/Index>)

2.2.2 Biodiversity

This section has been developed to examine the status of the ecosystem and biodiversity in the sub-project area and its immediate surroundings, to present the flora and fauna inventory, to identify endemic, rare or endangered taxa, and to determine the endangerment categories of the identified taxa in accordance with the World Bank Environmental and Social Standards-6 (ESS-6): Biodiversity Conservation and Sustainable Management of Living Natural Resources (WB ESS-6).

On 06.11.2024, a field visit was carried out to the sub-project area with the authorized representative of CA Engineering, A**** G****, H**** K**** from Varsakyaylası neighborhood and authorized personnel from the Nature Conservation and National Parks Regional Directorate. Within the scope of the visit, biodiversity data were collected and entered into the table in Annex K and Annex L.

2.2.2.1 Flora

The dominant vegetation (plant species) in and around the sub-project area is steppe. There are no endemic species in and around the activity area. There is no danger of extinction as a result of destruction in the activity area.

The plant taxa identified in and around the sub-project area have been evaluated within the scope of ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources standards and there are no plant species that need to be taken under protection. There are partial agricultural areas around the sub-project area.

Detailed information about the flora is given in Annex K.

2.2.2.2 Fauna

The study to determine the fauna species and their status within the ecological boundaries of the sub-project area was carried out in the form of field work, observation and information assessment of the local people and preparation based on literature information. The feeding areas of mammals are watersides and villages, and the surrounding forests are shelters for many birds and mammals.

Also, the rocky and bare areas in the upper parts of the mountains are protection and nesting areas for many bird species. Animals that do not need shelter in winter such as wild boar (*sus scrofa*), red fox (*vulpes vulpes*), lynx (*Lynx lynx*), European hare (*Lepus europaeus*), badger and marten are present. Passerines such as Eurasian jay (*garrulus glandarius*), blackbird (*turdus be*), birds of prey such as eagles, hawks, falcons and amphibians were identified.

The fauna species identified in the sub-project area are not under threat today.

Detailed information about the fauna is provided in Annex L.

2.2.3 Socio-economic Environment

According to the information obtained as a result of consultations with the neighborhood management during the field visit; Varsakyaylası is a rural settlement where a significant portion of the population consists of elderly individuals. Livelihoods are limited, with some households engaged in small-scale agriculture and livestock. A notable proportion of households receive social assistance.

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2.2.3.1 Demography and Population

A total of 2200 people live in Varsakyaylası neighborhood, 1000 of whom are male and 1200 are female. Population size by age is given in Table 7.

Within the scope of the planned SPP Project, it is planned to employ some of the employees from the settlements close to the project area. In this way, employment will be provided to the people of the region and will contribute to the revitalization of the economy in the region. No change in human density has been observed in the SPP Project area.

Table 7. Distribution of population by age

Age	Population
15-19	3
20-24	7

25-29	5
30-34	24
35-39	26
40-44	71
45-49	65
50-54	324
55-59	475
60-64	113
65+	1087

2.2.3.2 Land Ownership Status and Land Use by Affected People

The ownership and title deed of the sub-project site belongs to Kepez Municipality and there is no private land. However, establishment of easement right was required for the ETL route. The establishment of easement right is carried out by Akdeniz EDAŞ. It is followed by Kepez Municipality. There is currently a cadastral road to access the site. Therefore, there is no need for land acquisition for the road.

2.2.3.3 Employment and Means of Livelihood

The livelihoods of the Varsakyaylası neighborhood are agriculture and animal husbandry.

2.2.3.4 Education and Health Services

Varsakyaylası neighborhood, which is the closest settlement to the sub-project site, does not have a school because it is used as a plateau. It is generally used seasonally. Therefore, there are no students attending school.

2.2.3.5 Infrastructure Services

During the construction phase of the sub-project, damages and collapses may occur on the asphalt. In this case, necessary intervention and improvement will be made by the municipality asphalt teams. Upon completion of the sub-project, no negative impacts are expected during the operation phase.

2.2.3.6 Transportation and Traffic

There is currently a road used to reach the sub-project site. Korkuteli-Tefenni road is carried out from the Varsak plateau road junction. The route to reach the site passes through the settlement. The precautions to be taken regarding this situation are processed in the ESMP Matrix.

There is a road in the south of the sub-project area that is not included in the cadastral records but is actively used by the residents of the neighborhood. Some parts of this road remain within the parcel boundaries. The wire fence that will surround the area where the solar panels will be placed is planned to exclude the road in question.

2.2.3.7 Cultural Heritage (Tangible and Intangible)

The monumental structures built by the civilizations that established sovereignty in the region have survived to the present day as an important cultural heritage. The most important of these is the Ancient City of Termessos. It is approximately 40 km away from the sub-project site as the crow flies (See Figure 10).



Figure 10. Sub project Area to the Nearest Cultural Heritage

2.2.3.8 Vulnerable and Disadvantage Groups

Based on the information obtained from meetings with the Association President and the local population during the site visit; in the Varsakyaylası neighborhood, where the sub-project will be implemented, several vulnerable and disadvantaged groups have been identified based on consultations with local stakeholders, including the president of the neighborhood association. These groups include:

- Individuals over 70 years of age living alone (140 individuals)
- Persons with mental and/or physical disabilities (20 individuals)
- Households receiving social assistance from the state, associations, or individuals (120 individuals)
- Female-headed households (65 individuals)
- Persons with chronic diseases (100 individuals)
- Individuals with low literacy, especially women (152 individuals)

To enhance the participation of these vulnerable groups, tailored strategies will be implemented, as outlined in the Environmental and Social Management Plan (ESMP). These may include:

- Organizing mobile or home-based consultations for those with mobility limitations
- Distributing information verbally through trusted local institutions (e.g., Quran courses, schools)
- Using visual aids or audio-visual materials for individuals with low literacy
- Scheduling key engagement activities during the summer months when the population is higher
- Prioritizing local disadvantaged individuals for project-related employment opportunities
- These measures aim to ensure inclusive participation and equitable benefit-sharing throughout the project lifecycle.

3 SUBPROJECT ACTIVITIES

3.1 Construction Phase

3.1.1 Construction Activities

Construction activities will be completed in 6 months. Detailed implementation schedule envisaged for the construction phase activities (including provisional acceptance) is presented in Chapter 6.

Construction phase activities are briefly described below:

- **Pre-construction activities:** Land leveling will be conducted before starting the power plant construction and installation. Approximately 5 cm of topsoil and stones on the land will be cleared and the land should be prepared flat. Before the construction, the survey engineer will determine the points where the columns and the wire fence for land security will be installed. The determined points should be marked appropriately and deviations in the column assembly will be prevented. The stripped topsoil will be stored in a designated area within the site and will be used in the landscaping of the power plant.
- A 6-meter high retaining wall will be constructed between the boundary of the site and the house in order to minimize the impact of dust emissions, noise and visual effects on the house located next to the sub-project site. It is planned to implement a simple landscaping treatment on the retaining wall that will be constructed in order to avoid disrupting the neighboring house's view.
- There is an access road to the sub-project site and a new road will not be constructed.



Figure 11. Area where the retaining wall will be constructed

- **Construction/ installation activities:** Pile driving operations will be carried out to place the panel feet.

- **Construction machinery and equipment:** 1 truck, 1 excavator, 1 crane, 1 pile driver and 1 tanker will be used during the construction process.

Water use and waste water management:

- During the construction phase, drinking and utility water required for the personnel will be supplied through the municipal water network.
- Dust emissions generated during sub-project activities will be suppressed using water tankers provided by the municipality.
- A septic tank will be installed to manage the domestic wastewater generated by the construction workers. The accumulated wastewater will be regularly collected by the municipality and discharged to the appropriate wastewater treatment plant.
- .
- **Waste and hazardous materials management:** During the construction phase of the sub-project, activities such as vegetation clearance, leveling, construction and assembly of main operating and auxiliary units, supply, transportation and assembly of units and equipment will be carried out. The types of solid waste expected to be generated within the scope of these activities are municipal waste, packaging waste of system equipment (e.g. wood, cardboard, plastic, etc.), hazardous waste, special waste, excavation and construction waste (e.g. scrap metal, wood, concrete waste, etc.) and waste system equipment (PV monocrystalline panels, cables, electronic components).
- The food needs of the personnel working within the scope of the sub-project will be met by the subcontractor company and there will be no generation of vegetable waste oil. If no subcontractor company is used, vegetable waste oils will be collected separately from other wastes and stored in the temporary waste storage area to be located in the sub-project area and sent to licensed facilities in accordance with the provisions of the "Vegetable Waste Oil Control Regulation" published in the Official Gazette dated 06.06.2015 and numbered 29378.
- The facility will be decommissioned at the end of its 25-year economic life. In cases where the panels have reached the end of their lifespan or need to be replaced, the old panels will be revised, and new panels will be positioned. The panels will be classified as hazardous waste. Accordingly, the dismantled panels will be sent to licensed disposal facilities. Sub-project once the service period is over, the land will be restored to its former state.
- **Use of other resources and materials:** Material, energy, water and land use have been and will be optimized throughout the life cycle of the Kepez Municipality SPP-1, SPP-2 Solar Power Plants. Key measures for implementing resource efficiency that can help minimize negative environmental impacts, reduce costs and maintain the environmental, social and economic sustainability of solar energy production are as follows:
- **Water Saving:** Reduction of water consumption, including cleaning activities of PV panels, and minimization of impacts on local water resources will be ensured throughout the life cycle of the proposed PV power plant.
- **Energy Efficiency:** Use of energy-efficient equipment and adoption of low-energy construction techniques will be ensured. Optimizing energy use during transportation, installation and operation of the proposed PV power plant will reduce overall energy consumption and associated greenhouse gas emissions.
- **Community Participation and Social Sustainability:** Engaging with local communities and stakeholders throughout the project life cycle will help identify opportunities to enhance social sustainability, address community concerns and maximize local benefits, and contribute to the overall efficiency and acceptance of the proposed PV power plant.
- **Supply of materials and equipment:** Local companies will be given priority in the procurement of panels, steel construction, inverters and other electrical equipment to be used in the sub-project.
- **Decommissioning of temporary construction facilities:** Since there will be no accommodation at the Sub-project site, temporary construction facilities will not be established.

There are no activities related to the Sub-Project that are outside the scope of the proposed financing.

3.1.2 Construction Facilities

Construction facilities to be used during construction activities are listed in Table 8.

Table 8. Construction Facilities

Type	On-site or Off-site	Temporary or Permanent	List of Facilities
Temporary waste storage areas	On-site	Permanent	<ul style="list-style-type: none">• Waste Panel• Hazardous waste
Accommodation	Off-site	Temporary	<ul style="list-style-type: none">• Accommodation and food needs will be met in the city center.
Security hut	On-site	Permanent	<ul style="list-style-type: none">• For personnel responsible for the security of the sub-project site
Container for personnel	On site	Temporary	<ul style="list-style-type: none">• Area where personnel's belongings are stored and where they can meet their eating, drinking and toilet needs.

3.2 Operation Phase

3.2.1 Operation Activities

The sub-project area will be surrounded by wire fencing and illuminated with lighting poles. There will be security cameras and motion sensors on the lighting poles. The sub-project area will include a security cabin staffed by two unarmed personnel, along with a dedicated monitoring room. During operation, panel cleaning will be done twice a year and deionized pure water will be used.

Water use and waste water management:

- No chemicals will be used for panel cleaning during the operation phase. The panels will be cleaned with deionized pure water. Panel cleaning will be done twice a year and approximately 4 m³/ha water will be used.

Waste and hazardous materials management:

- Panel waste generated during maintenance and repair on sites will be delivered to licensed companies. Until the panels are delivered, they will be kept under cover in case they need to be kept on site. The points where the disposal of cells containing crystalline silicon is included in the legislation are limited and are in the form of conventional waste disposal. This includes recycling the reusable parts of the waste from PV panels and then disposing of them in regular landfills or removing them through general waste processing. In addition, hazardous and special wastes may include packaging materials and cloths contaminated with chemicals (e.g. paint, solvents) or oils, waste oils resulting from the operation and maintenance of machines and vehicles, solvents, accumulators, batteries, filters, machine parts.
- During the operation phase, there may be waste generation from damaged, faulty or end-of-life equipment and materials that can be replaced or checked during maintenance and repair activities to be carried out periodically or in the event of a malfunction. In addition, the supply of new equipment, parts and others will also cause the generation of packaging waste. In addition, personal protective equipment, clothing and cloths used during maintenance and repair activities may also cause limited waste generation. During the operation phase of the sub-project, there will be a limited amount of waste oil generation due to the oil change needs of the equipment. The impact from waste generation is assessed as direct and negative, short-term, local and of low importance.

Use of other resources and materials:

- Optimized Design and Layout: Site selection and design optimization have been carried out to maximize solar energy capture while minimizing land use and environmental impacts. This includes consideration of factors such as availability of solar resources, terrain structure, land use patterns and potential environmental constraints.
- Advanced Solar Panel Technologies: Investments are planned for high-efficiency solar panels that increase energy output per unit area, reduce the ecological footprint and material requirements for a given power output.
- Recycling and Circular Economy Applications: A Recycling Plan will be developed for damaged or end-of-life solar panels and components to recover valuable materials such as silicon, glass and metals for reuse in production. The implementation of the recycling plan will be ensured throughout the life cycle of the proposed PV power plant. Adoption of circular economy principles will minimize waste generation and resource depletion.

3.2.2 Operation Facilities

Operation facilities are described in Table 9.

Table 9. Operation Facilities

Component	Characteristics	
Solar panels	SPP-1:545 Wp (monoperc) SPP-2:545 Wp (monoperc)	
Mounting structures	Fixed Systems Above Ground	
Inverters, transformers, etc.	SPP-1: 5,814 piece panels 25 piece inverters (100 kW) 1 piece 2500 kVa transformers	SPP-2: 5,634 piece panels 25 piece inverters (100 kW) 1 piece 3000 kVa transformers

Control room, building, system, etc.	Scada system
Energy monitoring system	Scada system
Grounding system	<i>A grounding system designed in accordance with IEEE 80 2000 will be installed to prevent step and touch voltages that may occur due to short circuit fault currents.</i>
Lightning protection system	
Fire preparedness and firefighting facilities	Fire extinguisher 6 kg (27 pieces)
Security facilities	CCTV, Motion sensor, Security hut

3.3 Labor Requirements

Number of workers (at peak) that will work on site during the construction and operation phases of the sub-project are provided in Table 10.

The contractor company is responsible for meeting the needs of the personnel to be employed within the scope of the sub-project. Accommodation activities will be carried out in the central district. During the construction process, a container will be provided where the personnel will store their clothes, meet their food, beverage and toilet needs and will be positioned in the area specified in Figure 1. the site layout plan. Figure 1.

During the operation phase, a hut with security guards will be built at the point shown in Figure 12.



Figure 12. Buildings to be constructed within the scope of the sub-project

Table 10. Labor Requirements of the Subproject

Phase	Number of Workers (including contractors and subcontractors)	Planned Accommodation Arrangement
Construction Workers (at peak)	15	Off-site accommodation
Operation Workers (at peak)	2	On-site accommodation

3.4 Land Acquisition Status

Kepez Municipality SPP power plant is located in Antalya province, Korkuteli district, Varsakaylası neighborhood, lot 161 of block 159. The land ownership and title deed registration belong to Kepez Municipality (Annex C). The lands are 78,905 m² in total and 74,490 m² will be used within the scope of the sub-project.

There are private lands on the route where ETL passes and all establishment of easement right are under the responsibility of Akdeniz EDAS. Although the entire process will be carried out by Akdeniz EDAŞ, Kepez Municipality, as the project owner, is responsible for monitoring the land acquisition processes in accordance with ESS 5.

The existing road will be used for access in the sub-project area. No new road will be built.

3.5 Permitting Status

Status of permits, licenses, approvals required to be in place before start construction is presented in Table 11.

Table 11. Status of Permits for the Construction Phase

Permit, License, Approval	Status (In place, Not in place)	Remarks/ Notes
EIA Decision for the Power Plant	In place	Since the Kepez Municipality 2,500 kWe solar energy project is an on-land installation, an EIA assessment has been made according to the EIA regulation dated July 29, 2022 and the decision that EIA is not required is available with the decision number 23822202 220-02 E-2022354 dated 26.04.2022 by the Antalya Governorship Provincial Directorate of Environment and Urbanization.
Please list any other permits required to start construction of the Subproject.	In place	The permission received from the Ministry of Culture and Tourism is shared in Annex-B.
EIA Decision for the ETL	Not required	The ETL passes through privately owned parcels. Expropriation and easement right procedures are being carried out by Akdeniz EDAŞ. According to the EIA Regulation, the transmission line and is exempt from EIA, as it falls below the applicable thresholds. No separate EIA decision is required.
EIA Decision for Access Road	Not required	The present cadastral road will be in use. According to the EIA Regulation, the access road is exempt from EIA, as it falls below the applicable thresholds. No separate EIA decision is required.

4 ESMP MATRIX: RISK AND IMPACTS, MITIGATION, MONITORING

As the Subproject involves both construction and operation activities, the ESMP consist of two components applicable to respective Subproject phase, as follows:

- Pre construction and Construction ESMP Matrix
- Operation ESMP Matrix

Roles and responsibilities related to implementation of this ESMP is defined in Section 5.2.

Implementation arrangements for ESMP implementation are described in Section 1.5.

Contractor's E&S management plans and procedures that will support implementation of the E&S assessment documents are listed in Section Error: Reference source not found.

A stand-alone sub-project specific Stakeholder Engagement Plan (SEP), including Grievance Mechanism, has also been developed and will be implemented for the sub-project throughout the sub-financing agreement life cycle. The SEP consists of the following chapters:

Detailed procedure for the management of sub-project related grievances is included within the SEP.

Other E&S management plans and procedures that will support implementation of the ESMP and SEP are listed in Section 1.5.

No consultation meeting has been held yet within the scope of sub-project.

The installation process is planned to be 6 months. Excavation and driving machines will be used intermittently only for a maximum of 6-8 week of this process.

As the sub-project owner, it is Kepez Municipality's responsibility to manage the environmental and social issues of the sub-project and ensure that the necessary mechanisms are developed and implemented by the Contractor and/or Sub-Contractor.

It is anticipated that some environmental and social impacts may occur during the pre-construction, land preparation, construction and operation phases of the Kepez Municipality SPP-1, SPP-2 Solar Power Plant Project planned within the scope of the project.

The management of the risks and impacts that may occur on the environmental and social components during the pre-construction, land preparation, construction and operation phases and the relevant mitigation measures defined for these impacts are given in Section 4.2 and 4.3.

It should be noted that for the implementation of the mitigation plans, the strictest national legislation and WB standards will be followed and the most up-to-date legislation will also be taken into account. Monitoring plays a key role in ensuring the continuity and effectiveness of the implementation of the determined mitigation management strategies. The main purpose of the Monitoring Plan is to provide a basis for evaluating the implementation of the measures and requirements envisaged in this ESMP. Information collected through monitoring can be used to improve management plans at all stages of the sub-project. Although the impact assessment attempts to cover all potential relevant impacts to determine their significance and include appropriate responses for these impacts, unexpected impacts may arise that can be managed or mitigated before they become a problem using information obtained through monitoring. Therefore, monitoring will ensure successful implementation of mitigation/management plans and optimize environmental protection through good practices at all stages of the sub-project. It should be noted that the strictest national legislation and WB standards will be followed in the implementation of monitoring plans, and also that the most up-to-date legislation will be taken into account.

4.1 E&S Risk and Impacts of the Subproject

This section identifies the potential environmental and social impacts and risks that could arise from the activities of the Subproject either during the construction phase or the operational phase.

The highlighted impacts listed in below are broad and envisaged as cutting across most of the Sub-project. The specific potential impacts and risks for each Subproject will be provided in E&S assessment section of its feasibility report.

Typical Subproject activities to be implemented are broadly categorized into:

- Pre construction and Construction phase,
- Operation phase,

4.1.1 Construction Phase

4.1.1.1 Environmental Impacts and Risks

4.1.1.1.1 Waste Management

During construction phase, waste generation is expected to be as follows:

Construction waste is expected to be generated during power plant installation works. In accordance with the sub-project's PIF, chemical wastes will be collected and transported by licensed trucks to licensed Class I landfills for disposal in accordance with the Waste Management Regulation.

Domestic solid waste (non-hazardous) is expected to be generated during construction and operation phases. Municipal solid wastes will be collected by Kepez Municipality and disposed of in the sanitary landfill operated by the municipality.

Solar panels may contain hazardous materials such as cadmium, zinc, lead, CFCs, etc. Unless broken waste panels or panels that need to be replaced are managed with appropriate waste management systems or in the event of an accident/explosion/fire during the operation phase, these substances can be released. And may cause negative environmental impacts. Hazardous wastes that will be generated during all phases of the Project will be collected separately in closed and sealed containers according to their characteristics and types in line with the Waste Management Regulation and will be transported to licensed waste transportation companies and licensed disposal facilities.

Recyclable waste during both construction and operation phases is mainly from packaging materials. There will be bins for recyclable waste in the sub-project area. These wastes will be collected by Kepez Municipality and disposed of by licensed companies.

Protective equipment such as masks, gloves, etc. used due to pandemic control conditions will be considered as medical waste. Protective equipment of all personnel will be considered as medical waste. These will be stored and disposed of separately from other wastes in accordance with the Medical Waste Control Regulation.

All employees will be trained on waste management to raise awareness on waste minimization. Mitigation measures against the potential impacts of the above mentioned wastes are included in Section 4 of this plan.

Domestic Solid Waste

Assuming that the amount of domestic solid waste generated by personnel during the construction and operation phase of the project is 1.03 kg/day per person (average waste amount per person (kg/person-day), TURKSTAT, 2023);

A total of 15 personnel will work during the sub-project construction phase. Accordingly, the amount of waste to be generated daily is;

$$15 \text{ person} * 1.03 \text{ kg/person} = 15,45 \text{ kg}$$

Domestic solid waste will be collected in closed and leak-proof garbage bins that will not emit odors. Domestic solid waste will be transported daily to the nearest municipal garbage collection center. During the activity; The provisions of the "Waste Management Regulation" and its amendments, which came into force after being published in the Official Gazette dated 21.06.2021 and numbered 31523, will be complied with.

Packaging Waste Management

It has been accepted that approximately 13.5% of recyclable packaging waste will be generated among domestic solid waste (TurkStat, 2023). Any packaging waste that may be generated will be collected separately from solid waste and will be recycled by giving it to packaging waste collection-sorting facilities that have an environmental license. Blue containers where recyclable packaging waste will be collected separately from other waste will be placed around the site in areas where workers are concentrated. The waste collected from these points will be delivered to the licensed company. A storage area for packaging wastes will not be constructed specified for the waste in question.

When the rate given above is compared to the daily waste amount;

$$15.45 \text{ kg} * 0.135 = 2.09 \text{ kg}$$

Medical Waste Management

Medical waste is not expected to be generated in the project area as the nearest health institution will be visited in case of an accident. In case of occurrence, the relevant provisions of the "Medical Waste Control Regulation", which came into force after being published in the Official Gazette dated 25.01.2017 and numbered 29959, will be complied with.

End-of-Life Tire Management

Tires from construction vehicles or equipment that reach the end of their life will be stored safely and collected by licensed tire recovery/recycling companies. These will be tracked and documented as per the Waste Management Regulation and Regulation on Control of End-of-Life Tires.

Hazardous Waste

During the construction phase, hazardous waste is generated due to unexpected breakdowns and daily maintenance of the machines. In the event of such waste, a safe place will be created at a designated point in the activity area and the hazardous waste will be stored there.

A temporary waste storage area will be established for waste originating from the facility and personnel in the sub-project area and that needs to be collected on site. The temporary waste storage area to be established will be closed in order to protect the waste from external factors. The ground should be made of impermeable material and absorbent material will be provided against leakage or spillage. In addition, it will be surrounded with a grate against spillage and leakage, the liquids accumulated here will be disposed of with appropriate methods and will not be discharged into the receiving environment. The phrase "Attention! Hazardous Waste" will be placed at the entrance of the section where hazardous waste is stored. Necessary security measures will be taken against emergencies such as fire and it will be structured to prevent unauthorized entry. Each waste taken to the temporary storage area will be labeled. The label will include;

- a. Waste code,
- b. Whether it is hazardous waste or not,
- c. Hazardous properties and risks of the waste in terms of hazardous waste,
- d. The date the waste entered the storage area.

Wastes will be separated into appropriate sections according to their hazardous properties and stored separately according to their waste codes. If a container is used, it is essential that the container is placed on an impermeable surface, surrounded by a grid and that the absorbent material is protected against leakage and spillage. An employee responsible for the temporary storage area or container will be assigned and will be required to keep entry-exit records and prevent unauthorized entry.

In the records;

- a. Amount of waste entered,
- b. Type/code of waste entered,
- c. Entry date of the entered waste,
- d. Amount of waste exited,
- e. Type/code of waste exited,
- f. Exit date of waste exited,

- g. Signature and sections of the control officer. The contact information of the responsible personnel is indicated on a sign visible from outside the storage area.

Hazardous wastes are temporarily stored in the temporary storage area for a maximum of 180 days, and non-hazardous wastes are temporarily stored in the temporary storage area for a maximum of 1 year. Wastes are sent to licensed waste processing facilities before the specified periods expire. In addition, additional measures must be taken when deemed necessary by the Antalya Governorship Provincial Directorate of Environment, Urbanization and Climate Change. Insurance will be made within the scope of Article 16 of the Waste Management Regulation and the financial liability insurances made for temporary storage areas/containers will be renewed every year and submitted to the Antalya Governorship Provincial Directorate of Environment, Urbanization and Climate Change.

The waste in question will be classified according to their characteristics according to the "Waste Management Regulation" and the label "hazardous or non-hazardous waste" will be written on the temporarily stored waste, the waste code will be written and the waste will be accumulated in the temporary waste storage area in a way that it will not react with each other. These accumulated wastes will be delivered to companies licensed by the Ministry of Environment and Urbanization. The provisions of the Waste Management Regulation (Amended: Regulation on Amendments to the Waste Management Regulation, Official Gazette, dated 02.04.2015 and numbered 29314) which entered into force upon publication in the Official Gazette dated 23.06.2021 and numbered 31523 will be complied with.

The panels that have become waste during the construction phases will be collected in the designated area in the sub-project area. The collection area will be single for both parcels. The area to be constructed will be sealed to prevent the hazardous waste contained within from mixing with the soil. The waste panels collected in a safe area will be delivered to Licensed recycling facilities with the code 16 02 04. The glass and precious metals contained in the panels will be recycled as raw materials for the circular economy, and the remaining part will be disposed of as hazardous waste.

Waste Batteries and Waste Batteries

Waste batteries that may be removed from vehicles in the project area will be returned to the vendors and replaced with new batteries. Batteries used in the field will be reused by ensuring that they are rechargeable. Used batteries will be collected in battery collection boxes and left at collection points belonging to TAP (Portable Battery Manufacturers and Importers Association). The "Regulation on the Control of Waste Batteries and Accumulators" and its relevant provisions, which came into force after being published in the Official Gazette dated 31.08.2004 and numbered 25569, will be complied with.

4.1.1.1.2 Water Supply and Wastewater Management

It is planned that 15 personnel will be employed during the construction phase of the Kepez Municipality Solar Power Plant Project, and assuming that the drinking and utility water consumption per person is 229 L/day (TurkStat, 2023),

$$15 \text{ people} * 229 \text{ L/day*person} = 3,435 \text{ L/day}$$

Within the scope of the project, the Regulation on Waters for Human Consumption, which came into force after being published in the Official Gazette dated 17.02.2005 and numbered 25730, and the "Regulation on Waters for Human Consumption" published in the Official Gazette dated 31.07.2009 and numbered 27305, will be complied with.

The water requirement for suppressing the dust generated in the project area due to construction work will be met by using water trucks filled from the municipal infrastructure of Kepez Municipality. Drinking water and water used for suppressing dust during construction will be provided from the district water network.

The total construction area within the scope of the sub-project will be approximately 70,490 m². 5 liters of water will be used per square meter. Accordingly, water will be used to prevent dust emissions.

$$70,490 \text{ m}^2 * 5 \text{ liters/m}^2 = 352,450 \text{ L}$$

A total of 15 people are expected to work. Since the daily wastewater amount per person is 197 L/person-day, the total wastewater amount (TÜİK, 2023);

$$\text{Personnel wastewater amount} = (197 \text{ L/person-day}) \times (15 \text{ people})$$

$$\approx 2,955 \text{ L/day.}$$

Within the scope of the project, the Regulation on Waters for Human Consumption, which came into force after being published in the Official Gazette dated 17.02.2005 and numbered 25730, and the "Regulation on Waters for Human Consumption" published in the Official Gazette dated 31.07.2009 and numbered 27305, will be complied with.

4.1.1.1.3 Air pollution

Air pollution will mainly originate from dust emissions and exhaust emissions as well as Greenhouse Gas (GHG) emissions. Considering the location of the sub-project area, sensitive receptors are not expected to be affected. During the construction phase of the sub-project, the impacts on air quality will mainly originate from dust, exhaust and greenhouse gas emissions:

- Dust emissions during site preparation, excavation, filling and compaction works carried out for construction works.
- Dust emissions from vehicle movements for transporting various construction materials to the sub-project site.
- Exhaust emissions from vehicles used in construction activities.
- Greenhouse gas emissions from small amounts of vehicles and machinery.

Since a limited number of equipment and machinery will be operating on the sites, these air quality impacts will be limited to the area and in the short term. In addition, the recycling wastewater distribution network will follow the cadastral roads and the construction will be carried out in stages. Therefore, the receivers will be limited to those located near the construction sites.

Calculation of dust emissions from topsoil stripping

In the calculation of the dust emissions to be generated, the emission factors given in Table 2.7 of the “Regulation on Control of Industrial Air Pollution” (Amended Table: RG-20.12.2014-29211) published in the Official Gazette dated 03.07.2009 and numbered 27277 were used and the results were evaluated within the framework of the same regulation.

The calculations were made using both “uncontrolled” emission factors, considering that the most adverse conditions could occur during dust formation, and “controlled” emission factors, assuming that the necessary control measures were taken.

The area where the SPP project site will be established is 15.780 m². In this area, 10 cm topsoil stripping will be used to strip 1.578 m³ of soil.

(Soil Bulk Density is taken as 1.6 tons/m³)²

$$1.578 \text{ m}^3 \times 1.6 \text{ tons/m}^3 = 2,525 \text{ tons}$$

Daily working time is planned as 8 hours. Excavation work is planned as 192 hours in total.

$$2,525 \text{ tons} / 192 \text{ hours} = 13.15 \text{ tons/h}$$

Table 12. Control of Industrial Air Pollution

Sources	Uncontrolled	Controlled	Unit
Extraction	0.025	0.0125	kg/ton
Loading	0.0100	0.005	
Unloading	0.010	0.005	
Transportation (total round trip distance)	0.7	0.35	kg/km-vehicle
Storage	5.8	2.9	Dust/ha-day

Mass Flow Rate of Dust Emission to Occur During Extraction, Loading and Unloading of topsoil

Uncontrolled; $E1 = 13.15 \text{ tons/hour} \times (0.025 + 0.01 + 0.01) \text{ kg/ton} = 0.592 \text{ kg/hour}$

Controlled; $E1 = 7 \text{ tons/hour} \times (0.0125 + 0.005 + 0.005) \text{ kg/ton} = 0.295 \text{ kg/hour}$

Mass Flow Rate of Dust Emission to Occur During the Transportation of Topsoil

²<https://www.soilquality.org.au/factsheets/bulk-density-measurement>

Topsoil taken from the field during construction work will be temporarily stored in the topsoil storage area that will also be located within the work area; this distance is an average of 0.5 km round trip. Assuming that each truck used during transportation can carry 25 tons of material and therefore will make 1 trip in approximately 1 working day (25 tons/23.32 tons/hour), the mass flow rate of dust emissions that will occur during transportation is;

Uncontrolled; $E_2 = (0.7 \text{ kg/km.vehicle}) \times (0.5 \text{ km/1 trip/vehicle}) \times (1 \text{ trip/1 hour}) = 0.35 \text{ kg/hour}$

Controlled; $E_2 = (0.35 \text{ kg/km.vehicle}) \times (0.5 \text{ km/1 trip/vehicle}) \times (1 \text{ trip/1 hour}) = 0.175 \text{ kg/hour}$

Dust Emission Mass Flow Rate to be Formed During the Storage of Vegetal Soil

Uncontrolled; $E_3 = (5.8 \text{ kg/ha-day}) \times (1 \text{ ha/8 weeks/ 6 days/week/8 hours/day}) = 0.0035 \text{ kg/hour}$

Controlled; $E_3 = (2.9 \text{ kg/ha-day}) \times (1 \text{ ha/8 week/6 days/week/8 hours/day}) = 0.00185 \text{ kg/hour}$

Accordingly, the total mass flow rate of dust emission to be formed from the stripping operations of the vegetal soil to be carried out;

Uncontrolled; $ETOTAL-1 = 0.592 \text{ kg/h} + 0.35 \text{ kg/h} + 0.0035 \text{ kg/h} \approx 0.95 \text{ kg/h}$

Controlled; $ETOTAL-1 = 0.295 \text{ kg/h} + 0.175 \text{ kg/h} + 0.00185 \text{ kg/h} \approx 0.47 \text{ kg/h}$

When calculating the dust emission to be generated during the vegetative soil stripping operations, it was taken into account that the works would be carried out under the most adverse conditions. As stated in the "Regulation on Control of Industrial Air Pollution; for newly established facilities, "Calculation of the Contribution Value to Air Pollution" is required if the pollutant mass flow rates are exceeded.

Considering that all the works to be carried out within the scope of the vegetal soil stripping operations to be carried out at the construction site will be carried out in the same time period (worst case scenario), the dust emission to be generated has been calculated as 0,95 kg/hour for the uncontrolled case and 0.47 kg/hour for the controlled case. Therefore, as stated in "Regulation on Control of Industrial Air Pollution"; since the specified pollutant mass flow rates are not exceeded for the topsoil stripping operation, it has not been deemed necessary to calculate the "Contribution Value to Air Pollution" using an internationally accepted distribution model in the facility area of influence.

The construction equipment and transportation vehicles in question will be used at different times during the day.

Emission calculation from vehicles

The provisions of the Exhaust Gas Emission Control Regulation, which was published in the Official Gazette dated 11.03.2017 and numbered 30004, shall be complied with.

During construction, the fuel to be spent is only necessary for the work machines to be used, there will be no fuel consumption for heating etc. The usage periods and fuel consumptions of the work machines to be used during the construction phase of the business are shared in Table 13.

Table 13. Usage periods of the work machines to be used in the facility

Machine type	Number	Power (hp/h)	Working Time (h/day)
Crane	1	200	8
Excavator	1	200	8
Truck	1	200	8
Pile Driver Machine	1	90	8
Water Tanker	1	120	8

The fuels to be used in the land preparation and construction phase of the sub-project will be diesel fuel to be used during the work of the construction equipment. Apart from this, there is no other type of fuel to be used in the sub-project. There will be no fuel storage in the sub-project area and the fuel supply to the construction equipment will be made with fuels supplied from authorized stations. The characteristics of diesel fuel are given below:

Table 14. Diesel Properties

Properties	Diesel	Properties	Diesel
Consistency	Very fluid	Carbon Wastes (%)	Trace
Type	Distilled	Sulfur (%)	0.4-0.7
Color	Amber	Oxygen-Nitrogen (%)	0.2
Density (150c-gr/cm ³)	0.8654	Hydrojen (%)	12.7
Viscosity (380 °C)	2.68	Carbon (%)	86.4
Pour Point (0°C)	-18	Water and Sediment (%)	Trace
Atomization Temperature (0°C)	Atmospheric	Ash (%)	Trace
Pumping Temperature (0°C)	Atmospheric	Heat Value	9.387

Source: Air Pollution Control and Supervision, Chamber of Chemical Engineering, May, 1999

The emission factors table determined by the EPA (Environment Protection Agency) was used for the construction equipment to be used within the scope of the sub-project.

Table 15. Emission Factors Used in Calculations

Power	Year	CO (g/kWh)	HC (g/kWh)	NOx (g/kWh)	PM (g/kWh)
56 ≤ kW < 130 (75 ≤ kW <175)	2012 and above	5,0	0,19	0,40	0,02
130 ≤ kW < 560 (175 ≤ kW <560)	2011 and above	3,5	0,19	0,40	0,02

Source: USEPA Standards

Using the data in the table above, exhaust gas emissions that will occur during the construction and operation phases are calculated with the formula below and entered into the tables.

Emission Value (kg/h) = Emission Factor x Engine Power (kW) x Number x kg/1000 gr

Table 16. Emission calculations

Equipment to be used	Piece	Hp	kW	Emission Factor (g/kWh)		Emission Value (kg/sa)
Excavator	1	200	149	CO	3,5	0,52
				HC	0,19	0,03
				NOx	0,4	0,06
				PM	0,02	0,003
Crane	1	200	149	CO	3,5	0,52
				HC	0,19	0,03
				NOx	0,4	0,06
				PM	0,02	0,003
Pile Driver	1	90	67.05	CO	5	0,34
				HC	0,19	0,013
				NOx	0,4	0,026

				PM	0,02	0,0013
Truck	1	200	149	CO	3,5	0,52
				HC	0,19	0,03
				NOx	0,4	0,06
				PM	0,02	0,003
Water Tanker	1	120	89.5	CO	5	0,4475
				HC	0,19	0,017
				NOx	0,4	0,036
				PM	0,02	0,002

1 Hp = 0.745 kW. ³

When emissions from all vehicles are added together;

Table 17. Amount of Emission

Pollutant	Amount (kg/h)	Working Time (h)	Total Amount (kg/8 h)	24 hour emissions
CO	2.3475	8	18.78 kg	18.78 kg/24 h = 0.7875 kg/h
HC	0.12	8	0.96 kg	0.96 kg/24 h = 0.04 kg/h
NOx	0.242	8	1.936 kg	1.936 kg/24 h = 0.08 kg/h
PM	0.0123	8	0.0984 kg	0.0984kg/24 h = 0,004 kg/h

The calculation was made assuming that all vehicles were operating at maximum operating time and in the same month.

Pollutant	Amount (kg/h)	Mass flow rate (kg/hour) given in Annex-2 Table 2.1 of the "Regulation on Control of Air Pollution from Industrial Sources"	Evaluation
CO	0.7875	50	Below the limit value
HC	0.04	2	Below the limit value
NOx	0.08	4	Below the limit value
PM	0.004	1	Below the limit value

The calculated exhaust gas emission amounts were calculated cumulatively assuming that all machinery and equipment operate at the same time and are entered in the table above. When the calculated hourly mass flow rate (kg/hour) value was compared with the mass flow rate (kg/hour) values given in Annex-2 Table 2.1 of the "Regulation on Control of Industrial Air Pollution", it was seen that the emission mass flow rates were below the limit values given in the regulation. The calculations were made based on the assumption that all work machines operate simultaneously and continuously in their areas of use, and in reality, such an application is not very possible. Therefore, the emission levels that will occur in reality will be lower than the emission levels found in the calculations.

Where the requirements in Türkiye differ from the levels and measures presented in the EHS Guidelines, the more stringent (such as the most stringent discharge and emission standards) will be applied in the project specification.

Noise

³<https://sbsolar.com.tr/1kw-kac-hp-bir-beygir-kac-kw?srsltid=AfmBOopeJLUU2e08CtSYKdRWghT6TSx7iJDNzzfTjy0U2vio8kOh7QKR>

The sub-project activities are planned to be completed in ~2 month. Within the scope of the sub-project, work will be carried out during the daytime, 6 days a week, 8 hours a day.

The sound power levels of the equipment were calculated according to the formulas given below according to the permitted sound power levels defined in the table given in Article 5 of the "Regulation on Noise Emission in the Environment Created by Equipment Used in Open Areas", which was published in the Official Gazette dated 30.12.2006 and numbered 26392 and entered into force, and data from similar activities were also taken into account.

Table 18. Equivalent Noise level to the distances According to Distribution

Distance (m)	40	50	100	200	300	400	500	750	1000
Equivalent noise level (dBA)	64.4	62.3	56.0	49.3	45.3	42.4	40.1	35.8	32.8

Since the closest house to the sub-project area is 15 meters away, it has been determined that it will remain below the limit value specified in the Environmental Noise Control Regulation published in the official gazette dated 30.11.2022 and numbered 32029.

Table 19. Environmental Noise Level Limit Values (Environmental Noise Control Regulation)

Noise Source	Measured Parameter	Environmental Noise Level		
		Daytime (07:00 - 19:00)	Evening (19:00 - 23:00)	Night (23:00 - 07:00)
Industrial facilities transportation resources	L_{Aeq},5min.	65 dB(A)	60 dB(A)	55 dB(A)
Workplaces ⁽²⁾	L _{Aeq} ,5min.	Background + 5 dB(A)		Background + 3 dB(A)
In case of more than one workplace	L _{Aeq} ,5min.	Background + 7 dB(A)		Background + 5 dB(A)
All sources	LC _{max}	100 dB(C)		

⁽¹⁾ : These limit values are valid as of 31.12.2023. These limit values are valid for each 1/3 octave of the specified frequency range band. In the acoustic reports prepared until this date, environmental noise measurement results and measurement results measures identified are included.

⁽²⁾ : Each workplace contributing to the background noise level is jointly responsible for meeting this limit value. Each workplace takes necessary measures according to their contribution to noise.

Table 20. IFC General EHS Guides Noise Levels

Buyer	Daytime (07:00 - 22:00)	Night (22:00 - 07:00)
Settlement Areas	55 dB(A)	45 dB(A)
Commercial/industrial areas	70 dB(A)	70 dB(A)

The expected noise values in the nearest sensitive receiver, namely the household, are above the limit values given in the national regulation and the WBG General EHS guidelines. The calculations were made assuming that all equipment will operate simultaneously. In real life, lower environmental noise levels are expected. In addition, in case of any complaints about noise, measurements will be taken to determine the environmental noise level caused by construction work and if it is high, additional measures such as barriers, arrangement of working hours, etc. will be taken.

4.1.1.1.4 Soil erosion, loss and contamination

The major impact on soil could be the potential topsoil loss at the footprints of the sub-project where excavation will be carried out. Excavated soil may be exposed to agents of erosion, mostly water and wind. Due to the involvement of heavy machinery during the construction phase, soil contamination may be seen due to accidental oil leakages in the areas. The impacts on soil will be minimal and localized in the areas where construction will take place only.

The potential impacts of the Subproject on soil environment are summarized below:

- Soil compaction as a result of topsoil stripping, levelling, excavation and filling activities, work of construction machinery,
- Mixing of soil layers as a result of excavation and filling activities,
- Soil contamination as a result of oil or fuel leaks or spillage that may result from incidents and unexpected events,
- Soil pollution which may occur in case of uncontrolled storage or disposal of solid and/or liquid wastes to be generated within the scope of the sub-project, and
- Erosion potential due to earthworks.

4.1.1.1.5 Impacts on Natural Habitats

Biodiversity

Flora

The sub-project area is located in a semi-arid region dominated by steppe vegetation. Based on the environmental baseline presented in Section 2.2.2., no endemic or protected plant species were recorded in the project footprint.

While no direct impact on rare or endangered flora is expected, temporary impacts may occur due to vegetation clearance during the construction phase. These impacts include:

Loss of soil cover leading to erosion risks,

Disruption of natural seed banks,

Potential spread of invasive species due to soil movement and machinery.

These risks are due to the fact that vegetation clearance will be strictly limited to the construction areas, ensuring that the topsoil is preserved and reused.

Fauna

Many terrestrial fauna species are expected to use the habitats in and around the project site, especially small mammals (*Lepus europaeus*), reptiles (*Testudo graeca*) and bird species such as *Alauda arvensis* and *Falco tinnunculus*. Although the subproject area is far from major urban centers, its open and relatively undisturbed nature may serve as a corridor or feeding area for these species.

Possible impacts on fauna include:

Temporary displacement due to construction noise and activity,

Habitat fragmentation due to fences or access roads,

Increased number of roadkill during construction and operation phases.

4.1.1.2 No significant adverse impacts are expected in the long term if the mitigation measures outlined in Section 4 (avoiding night work, establishing wildlife crossings where necessary, etc.) are effectively implemented. Social Impacts and Risks

Occupational Health and Safety and Labor

Construction work can cause accidents and incidents that threaten the health and safety of workers if necessary precautions are not taken in advance.

Personnel to be employed during the construction phase and operation phase may be affected by OHS risks including noise, vibration, dust exposure, eye hazards, welding/hot processes, exposure to hazardous chemicals, working with

electrical equipment, falls, trips and slips, traffic, machinery and moving equipment, working at height and falls, working in confined spaces. Mitigation measures against potential risks and impacts of Project activities on worker health and safety are presented in Section 5 of this Plan. OHS risks and impacts will be managed and mitigated through an OHS Management Plan and Risk Assessment (including Emergency Plans) to be prepared by the Contractor prior to commencement of construction activities for the construction phase and by the Kepez Municipality prior to commencement of operations.

The spread of infectious diseases, among workers is another potential negative impact on OHS and public health. This impact could also result in increased pressure on health services due to overcrowding. Fire risks and worker injuries due to various electrical faults are also likely (electric spark, short circuit, electric shock due to ground fault, etc.).

Kepez Municipality and the contractor must provide a safe and healthy working environment. In accordance with the "Regulation on Health and Safety Signs", visible warning and information signs should be placed at the construction site. Mitigation measures for potential impacts of sub-project activities on worker health and safety are presented in Section 5 of this Plan.

Community Health and Safety

Impacts that may pose risks to public health, safety and security, mainly during the construction phase, are assessed under the following headings for the sub-project:

- Noise: Construction machinery and equipment will produce continuous and intermittent noise. Prolonged exposure may disturb nearby communities or sensitive fauna. Noise levels will be monitored and noise operations will be limited to daylight hours.
- Dust: Stripping operations, vehicle movements are expected to generate dust. Water spraying and appropriate storage of materials will be implemented to reduce emissions.
- Traffic accidents (traffic safety): Increased movement of heavy vehicles and machinery may pose a risk to road users and pedestrians. Traffic management plans, trained drivers and warning signs will be used to reduce risks.
- Electrical and machinery/equipment safety: Improper use of electrical tools or faulty machinery may result in electric shock or injury. All equipment will be regularly inspected and maintained. Untrained personnel will not be permitted to operate.
- Infectious diseases: The presence of a non-local workforce and limited hygiene conditions may increase the risk of infectious diseases. Sanitation facilities and health screenings will be provided.,
- Gender-Based Violence, including Sexual Exploitation, Abuse and Harassment (SEA/SH): An influx of temporary workers may lead to risks of harassment or abuse. Codes of conduct, awareness training and complaints mechanisms will be implemented on site.

Potential risks and impacts to the public should be appropriately managed through the measures discussed in the Mitigation Plan in Section 4.

There may be "disadvantaged or vulnerable" individuals/groups who may be adversely affected or whose ability to realize the benefits of this sub-project may be more limited than others. Such individuals/groups are more likely to be excluded from the main participation process, unable to participate fully. In this case they may require specific measures and assistance.

Although it is aimed to meet the majority of the workforce demand from the local community, it is recognized that not all employees—especially certain skilled or semi-skilled positions—may be available locally. In such cases, priority will be given to hiring from the local population to the greatest extent possible.

Given that the total number of workers is expected to be limited to approximately 15 personnel, no significant labor influx or labor-related migration is anticipated. Accordingly, the project is not expected to cause any adverse social or environmental impacts typically associated with large-scale labor movement.

Traffic

Due to the transportation of PV panels and other equipment during the construction phase, very low traffic density is expected to occur on the Korkuteli-Tefenni highway, which is the access road to the sub-project site.

Despite this low-density traffic, potential adverse impacts will be mitigated through effective implementation of the mitigation measures discussed in Section 4 of this ESMP. No adverse impacts are expected during the operation phase once the construction of the SPP is completed.

Loss of Land and Livelihoods

As part of the Solar Power Plant (SPP) project, field investigations and stakeholder consultations conducted on 06.11.2024 in local people confirmed that the project site has not been used in the past for agricultural activities, livestock grazing (including animal shelters or corridors), or any commercial purposes. It was also determined that the land has not been utilized by third parties, and there are no households or communities whose livelihoods are expected to be negatively affected by the sub-project.

For privately-owned lands (lots 20, 21, 79, 80, 82 of block 101 and lots 106, 112, 161 of block 159 and lots 3 and 4 of block 162) located along the route of the Energy Transmission Line (ETL), easement has been deemed necessary. This process is being carried out by Akdeniz EDAŞ (Electricity Distribution Company), with follow-up and coordination support provided by Kepez Municipality.

All land acquisition procedures are being conducted in accordance with national legislation and relevant safeguard requirements, ensuring that affected landowners are duly informed and compensated where applicable.

However, adjacent to the parcel boundary of the nearest settlement area, there exists an unlicensed structure that is not included in the zoning plan, as well as an unregistered road passing through that parcel. This road is actively used by the household owner for access to their residence. Although the sub-project layout appears to overlap with the road, a site visit conducted on 16.04.2025 confirmed that the road will remain outside the fenced boundary of the project area. Therefore, no adverse impact on the household's access is anticipated.

Additionally, although there appears to be an encroachment from a nursery located in the northeastern part of the project parcel toward the sub-project area, field inspections confirmed that this is only a visual impression and the nursery does not extend beyond its own parcel boundary. The nursery remains outside the fenced area of the sub-project site. Kepez Municipality has also committed that no trees will be cut as part of the sub-project activities.

In conclusion, no direct loss of livelihood has been identified within the project area. However, potential use of the road within the nursery area and any related activities will be managed through open communication and mutual agreement with local stakeholders.

Potential Social Risks

A residential structure located adjacent to the project border, unlicensed and outside the approved zoning plan, has been identified. This structure is actively used for residential purposes by A**** A***** during the summer months. During the site visit and consultation meetings held on 16.04.2025, the owner of the structure clearly stated that he would not allow any project activities that could affect the structure or its surroundings. Although this structure is located outside the wire fence borders surrounding the project site, it has the potential to pose a security, access and social tension risk during the construction process.

Due to the proximity of the structure to the sub project area, it was assessed that there could be a security risk during panel placement activities during the construction process. Social conflicts may occur if the project teams do not respect the owner's perception of private space.

The roads currently used along the land borders were identified, and it was observed that these roads did not pass through the project area and remained outside the wire fence.

Following site evaluations, it was concluded that the terrain is stable and does not pose a risk related to soil structure or slope for the installation of solar panels. However, it was identified that there is a residential building adjacent to the project parcel boundary.

To ensure the safety and visual comfort of the neighboring residents, a 6-meter-high retaining wall will be constructed between the project area and the nearby house. It is planned to implement a simple landscaping treatment on the retaining wall that will be constructed. This barrier will also serve as a mitigation measure to prevent any potential glint and glare impacts caused by sunlight reflecting off the solar panels.

As part of the design phase, the orientation and tilt of the panels will be optimized to minimize reflective surfaces facing the residential direction. With these measures in place, no adverse visual or light-related impacts are expected on the adjacent property.

Vulnerable groups

Certain vulnerable groups such as disabled people, children or elderly people, certain minorities and groups with livelihood dependencies in the sub-project region might be affected during the construction phase.

Subproject specific ESMP along with the SEP will consider any impacts in association with the daily living patterns of potential vulnerable groups (i.e school aged children commuting for school) that may be generated due to civil works.

Vulnerable and disadvantaged groups identified in the subproject; faces distinct challenges in participating in stakeholder engagement activities and accessing project-related benefits: Elderly individuals living alone, particularly those over 70, may experience mobility limitations and lack social support, which restricts their ability to attend public meetings or stay informed about the sub project.

- Physically disabled individuals may require transportation or physical support to participate in activities. Mentally disabled individuals often face additional barriers in understanding project-related information and may require simplified materials or assistance.
- Female-headed households often bear both economic and domestic responsibilities, increasing their daily workload. Their time and energy constraints can limit their ability to engage in meetings or training sessions.
- Women with low literacy may struggle to understand written project materials. Cultural norms in the region also restrict the visibility and participation of women in public life, reducing their access to formal communication channels.
- Persons with chronic illnesses may be limited in their participation due to frequent medical appointments and ongoing health monitoring, making it difficult to attend in-person consultations or events.
- Although direct interviews with residents could not be conducted during the site visit due to seasonal migration, insights were gathered from community leaders regarding the presence and needs of these groups. The number of individuals within each category was discussed with the president of the Varsakyaylası Association.

Cultural Heritage

While there is no official record or finding indicating the presence of cultural heritage assets within the project area, this assessment is based on site visits, visual inspections, and consultations with local stakeholders, including the neighborhood mukhtar and long-term residents. It is highly unlikely to encounter cultural assets during excavation work during the construction phase.. However, should cultural assets be encountered during construction, a Chance Find Procedure is in place (Annex H) and the relevant authorities will be informed accordingly. Existing procedures and rules will be followed immediately. No adverse impacts are expected during the operation phase upon completion of the sub-project.

4.1.2 Operation Phase

4.1.2.1 Environmental Impacts and Risks

4.1.2.1.1 Amounts of Waste to be Generated during the Operation Phase

Domestic Solid Waste

Considering number of workers the generation of domestic waste will be limited. Still domestic solid waste will be collected in closed and leak-proof garbage bins that will not emit odors. Domestic solid waste will be transported daily to the nearest municipal garbage collection center. During the activity; The provisions of the "Waste Management Regulation" and its amendments, which came into force after being published in the Official Gazette dated 02.04.2015 and numbered 29314, will be complied with.

A total of 2 personnel will work during the sub-project operation phase. Accordingly, the amount of waste to be generated daily is;

2 person * 1.03 kg/person = 2.06 kg

Hazardous Waste

There will be waste that will be released as a result of the equipment to be used in the facility reaching the end of its life. The panels have an approximately 10-year product life and a 25-year efficiency guarantee. At the end of 25 years, they will continue to be used with a 20% loss. In cases where the panels have reached the end of their life or need to be replaced, the old panels will be revised and new panels will be positioned. The panels are classified as hazardous waste. Accordingly, the dismantled panels will be sent to licensed hazardous waste disposal facilities. Inverters and fuses are classified as electronic goods and their economic life is over 20 years. Inverters that will be released as a result of replacing the inverters due to any malfunction or the end of their economic life will be sent to licensed companies and recycled under the code 16 02 04.

The life of the support systems where the panels will be placed is at least 40 years. The support systems that will be exposed are within the scope of non-hazardous waste and will be disposed of by sending them to licensed companies with the code 20 01 40 (Metals). The cables to be used will be selected to be resistant to sun and heat and will have a minimum life of 20 years. The cables that will be exposed will be sent to licensed companies with the code 17 04 11 (cables other than 17 04 10) and disposed of. The area established during the construction phase will be used for storing waste in accordance with the relevant legal regulations.

Waste Batteries and Waste Batteries

Waste batteries that may be removed from vehicles in the project area will be returned to the vendors and replaced with new batteries. Batteries used in the field will be reused by ensuring that they are rechargeable. Used batteries will be collected in battery collection boxes and left at collection points belonging to TAP (Portable Battery Manufacturers and Importers Association). The "Regulation on the Control of Waste Batteries and Accumulators" and its relevant provisions, which came into force after being published in the Official Gazette dated 31.08.2004 and numbered 25569, will be complied with.

Packaging Waste Management

It has been accepted that approximately 13.5% of recyclable packaging waste will be generated among domestic solid waste (TurkStat, 2023). Any packaging waste that may be generated will be collected separately from solid waste and will be recycled by giving it to packaging waste collection-sorting facilities that have an environmental license. Blue containers where recyclable packaging waste will be collected separately from other waste will be placed around the site in areas where workers are concentrated. The waste collected from these points will be delivered to the licensed company. A storage area for packaging wastes will not be constructed specified for the waste in question.

Medical Waste Management

Medical waste is not expected to be generated in the project area as the nearest health institution will be visited in case of an accident. In case of occurrence, the relevant provisions of the "Medical Waste Control Regulation", which came into force after being published in the Official Gazette dated 25.01.2017 and numbered 29959, will be complied with.

End-of-Life Tire Management

Tires from construction vehicles or equipment that reach the end of their life will be stored safely and collected by licensed tire recovery/recycling companies. These will be tracked and documented as per the Waste Management Regulation.

Medical Waste

Medical waste is not expected to be generated in the project area as the nearest health institution will be visited in case of an accident. In case of occurrence, the relevant provisions of the "Medical Waste Control Regulation", which came into force after being published in the Official Gazette dated 25.01.2017 and numbered 29959, will be complied with.

4.1.2.1.1 Operation Phase Water Supply and Wastewater Management

It is anticipated that a total of 2 people will work. Drinking water supply and wastewater generation will be limited. Within the scope of the project, the Regulation on Waters for Human Consumption, which came into force after being published in the Official Gazette dated 17.02.2005 and numbered 25730, and the "Regulation on Waters for Human Consumption" published in the Official Gazette dated 31.07.2009 and numbered 27305, will be complied with.

Within the scope of the sub-project, a septic tank will be constructed during the operation period.

Periodic cleaning of solar panels is essential to minimize efficiency losses in the solar power plant. Although the frequency of cleaning the panels varies depending on the city and environment where the power plant is located, on average, cleaning the panels twice a year will be sufficient. Cleaning of solar panels is done only with water.

Using chemicals to clean the solar panel may scratch the panel and reduce the absorption power of the solar rays, which will significantly weaken the efficiency of the solar panels. For this reason, no chemicals will be used during cleaning.

The provisions of the Exhaust Gas Emission Control and Gasoline and Diesel Quality Regulation, which was published in the Official Gazette dated 30.11.2013 and numbered 28837 and entered into force, and the Exhaust Gas Emission Control Regulation, which was published in the Official Gazette dated 11.03.2017 and numbered 30004, shall be complied with.

4.1.2.2 Social Impacts and Risks

Occupational Health and Safety (OHS) and Labor

During the operation phase, personnel may be exposed to risks such as electrical hazards, working with electrical equipment, mechanical maintenance, fire incidents, and limited exposure to hazardous substances. These risks will be managed through the implementation of an OHS Management Plan to be prepared and enforced by Kepez Municipality. Regular training, emergency drills, and safety monitoring will be part of ongoing occupational health and safety practices.

Electrical and Machinery/Equipment Safety: Operational components of the plant (e.g., inverters, transformers) may pose safety risks. Only authorized personnel will access restricted areas and follow standard safety protocols.

Community Health and Safety

Although major construction activities will be completed, the operation of the solar power plant may still pose limited risks to nearby residents. These include:

Electrical safety risks related to transformer and transmission infrastructure;

Project-related emergencies, including fire risks or exposure to hazardous materials.

The established retaining wall and fencing will ensure public safety and prevent unauthorized access. Routine maintenance and monitoring activities will be conducted in accordance with relevant safety protocols. No significant community health risks are expected during the operation phase.

Exposure to Project-Related Emergencies (Fire, Hazardous Substances): Electrical faults or material leaks may lead to fire or hazardous exposure. Emergency response plans, fire extinguishers, and safety drills will be implemented.

Traffic

During the operation phase, traffic will be minimal and limited to occasional maintenance and monitoring vehicle access. Therefore, no adverse traffic-related impacts are expected.

Loss of Land and Livelihoods

No additional land acquisition or displacement is anticipated during the operation phase. Land previously acquired for the project has already undergone legal procedures, and no active livelihood activity will be disrupted. If any damage is detected, this damage will be covered in line with ESS5.

Vulnerable Groups

The operation phase is not expected to generate significant interactions with vulnerable or disadvantaged groups. However, continuous stakeholder engagement and communication mechanisms will remain accessible to ensure that any emerging concerns, particularly from elderly residents or persons with disabilities, are properly addressed.

Potential Social Risks

The proximity of an unlicensed residential structure to the site boundary does not pose operational risks under normal conditions. However, monitoring will continue to ensure that the retaining wall and fencing prevent physical or visual intrusion. No additional social conflict is anticipated during the operation phase.

4.2 Construction ESMP Matrix

No	Impact Description	Receptor	Proposed Mitigation Measure	Relevant Plans/Procedures	Responsible Party
ESS2 - Labor and Working Conditions					
1	Improper Working Conditions	<ul style="list-style-type: none"> Employees 	<ul style="list-style-type: none"> Child labor, forced labor and unregistered labor will be prohibited. Workers will be provided with clear and understandable documented information on their rights under national labour law, including collective agreements, working hours, wages, overtime, compensation and benefits from the start of the employment relationship and whenever any significant changes occur. A Grievance Mechanism will be established for workers to raise concerns about their workplace. Workers will be informed about the grievance mechanism at the time of recruitment and will be provided with easy access to it. Written contracts will be provided to subcontractors, setting out detailed job descriptions, rights and obligations, and a Code of Conduct. Minimum legal labour standards will be met (preventing child/forced labour, anti-discrimination, working hours, minimum wages) as per International Labour Organization (ILO) regulations. Workers will be provided hygienic and adequate facilities. 	<ul style="list-style-type: none"> Code of Conduct LMP 	<ul style="list-style-type: none"> Contractor (implementation and management of measures) Audit Consultant (monitoring the implementation of measures) Municipality / Project Owner (policy and support in complex cases)
2	General OHS risks	<ul style="list-style-type: none"> Construction workforce 	<ul style="list-style-type: none"> Develop a comprehensive risk assessment document for subproject, addressing specific risks and defining mitigation 	<ul style="list-style-type: none"> Occupational Health and Safety Management Plan 	<ul style="list-style-type: none"> Contractor (implementation and management of

			<p>measures.</p> <ul style="list-style-type: none"> • Ensure that all employees, including subcontractors, receive necessary OHS training covering identified risks. • Prepare subproject management plans, including Safe Work Procedures and an Emergency Preparedness and Response Plan. • Enforce safety procedures and provide appropriate PPE to all employees. • Incorporate job-specific safety procedures and requirements in OHS training programs. • Emergency scenarios should be determined for all risks and every employee should receive training on these scenarios. • Prepare machine and operation specific "Safe Working Procedures" for all safety critical equipment and machinery and notify all workforce by signature. • Serious safety issues that may arise with primary suppliers and primary supply workers will be managed as described in the Occupational Health and Safety Sub-Management Plan, which will cover primary supply workers to the extent necessary. • Written contracts will be provided to subcontractors, setting out detailed job descriptions, rights and obligations, and a Code of Conduct. • In case of OHS accidents resulting in loss of life, loss of limbs or eyes, or temporary incapacity for work lasting more than 72 hours, the Contractor shall immediately notify the Social Security Institution (within 24 hours) and follow up by filling in the Environmental and Social Reporting Template (ESRT) forms in accordance with the instructions of ILBANK. This process shall also include root cause analysis and corrective action plan. 	<ul style="list-style-type: none"> • Emergency Preparedness and Response Plan 	<p>measures)</p> <ul style="list-style-type: none"> • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)
3	Physical Hazards:	<ul style="list-style-type: none"> • Construction workforce 	<ul style="list-style-type: none"> • Ensure that lifting area will be enclosed with fence to prevent access to the lifting area 	<ul style="list-style-type: none"> • Occupational Health and Safety 	<ul style="list-style-type: none"> • Contractor (implementation and

	Lifting Operations OHS Risks		<p>during lifting work.</p> <ul style="list-style-type: none"> • Ensure that warning signs will be installed for lifting activities • Ensure that safety procedures will be used for lifting operations. • Ensure that lifting work will be carried out by well trained, qualified, and certified lifting team and with proper communication means and flag man. • Ensure that workers will be provided with all necessary PPE and safety materials. • Ensure all equipment used for lifting operations including slings, chains and hooks are checked technically and records are kept according to local safety legislation. • Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures. • Ensure that user-adjustable workstations are provided. • Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place. • Ensure that quality control and maintenance programs are in place to reduce unnecessary forces and effort, and personnel are trained in proper manual handling techniques. • Ensure that additional special circumstances, such as left-handed people, are considered. 	Management Plan	<p>management of measures)</p> <ul style="list-style-type: none"> • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)
4	Fire Safety Prevention Measures and Emergency Response	<ul style="list-style-type: none"> • Construction workforce • Flora and fauna • Soil, water resources 	<ul style="list-style-type: none"> • Prepare an Emergency Response and Evacuation Plan before the commencement of works. • Ensure all employees are trained for their responsibility to report dangers and firefighting measures • Ensure that all flammable and hazardous materials are stored in designated, secure areas away from ignition sources. • Ensure firefighting systems and equipment 	<ul style="list-style-type: none"> • Occupational Health and Safety Management Plan • Emergency Preparedness and Response Plan 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project

			<p>are available</p> <ul style="list-style-type: none"> • Ensure fire and emergency drills are conducted regularly. • Designate trained fire wardens for each area to lead evacuations and coordinate with emergency responders. • Keep an up-to-date list of emergency contacts, including local fire departments and hospitals, for quick access in case of fire. • Ensure the number of trained first-aiders is in accordance with workplace hazards class as specified in the First Aid Regulation. 		Owner (policy and support in complex cases)
5	Working at Height	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • The health status of all personnel who will work at heights will be checked in advance. In particular, people with the following diseases will not be allowed to work at heights: <ul style="list-style-type: none"> ○ Fear of heights (acrophobia) ○ Dizziness, loss of balance ○ Epilepsy ○ Visual impairments ○ Diabetes (diabetes mellitus) ○ High blood pressure • Employees will be required to provide a current health report stating "Can Work in Heavy and Hazardous Work". • All personnel working at heights will be provided with a parachute-type safety belt connected to a lifeline and its use will be mandatory. • Safe scaffolding or temporary platforms will be installed in all works. • 6A safety net will be stretched around the work area for materials and equipment that may fall and the necessary physical protectors will be provided. • Guide rope will be used in material transport; the compliance of lifting 	<ul style="list-style-type: none"> • Occupational Health and Safety Management Plan • Emergency Preparedness and Response Plan 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)

			<p>equipment with local legislation will be documented and regular maintenance/control records will be kept on site.</p> <ul style="list-style-type: none"> • Only certified personnel will be assigned to the assembly and use of scaffolding, platforms and ladders. • All areas with a risk of falling will be surrounded by red and white warning tape, warning signs will be placed and unauthorized personnel will be prevented from entering these areas. • Care will be taken to secure materials that may fall from above, and if they are not to be taken down, it will be ensured that they are placed safely. • All employees must use their PPE (helmet, safety belt, gloves, non-slip shoes) completely and correctly before starting to work at heights. • Regular PPE inspections will be carried out by the OHS officer on site. • A "Safe Work Instruction" will be prepared and notified to the personnel who will work at heights against signature before the relevant activity and the necessary training will be provided. • Trainings will cover risk awareness, use of equipment, emergency evacuation, fall prevention systems, and use of PPE. • Trainings will be updated periodically and repeated for each new personnel before starting work. • It is mandatory to conduct an area-based risk assessment, including working at heights, before each activity to be carried out within the scope of the subproject. • This assessment will be verified with checklists before starting work on site. 		
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			<ul style="list-style-type: none"> • An emergency rescue plan will be prepared for falls or injuries in high-altitude work, and rescue equipment (rope, tripod, stretcher, etc.) will be kept ready on site. • A trained rescue personnel or OHS officer will be present on site throughout the work. 		
6	Gender-Based Violence (GBV), Sexual Exploitation Abuse / Sexual Harassment (SEA/SH)	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • All sub-project employees will be provided with training on GBV and SEA/SH. • All sub-project employees will sign the Code of Conduct and will be informed on this issue. • A Worker's GM will be implemented to capture GBV and SEA/SH related complaints. 	<ul style="list-style-type: none"> • Code of Conduct • LMP 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)
7	OHS Physical Hazards: Electrical Hazards	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • Ensure that all energized electrical devices and lines are marked with warning signs • Ensure that the devices are locked (de-charging and leaving open with a controlled locking device) and labeled (warning sign placed on the lock) during service or maintenance. • Ensure that all electrical cords, cables, and hand power tools are checked for frayed or exposed cords. Also, ensure that the manufacturer's recommendations for the maximum permitted operating voltage of portable hand tools are followed • Ensure that all electrical equipment used in environments that are or may be wet is 	<ul style="list-style-type: none"> • Occupational Health and Safety Management Plan • Emergency Preparedness and Response Plan • Labor Management Plan • 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)

			<p>double insulated/grounded; use equipment with ground fault interrupter (GFI) protected circuits.</p> <ul style="list-style-type: none"> • Ensure that power cords and extension cords are protected against damage from traffic by shielding or suspending above traffic areas • Ensure that high-voltage equipment ('electrical hazard') and service rooms where access is controlled or prohibited are properly labeled. • Ensure that "No Approach" zones are established around or under high voltage lines. • Ensure that construction vehicles or other vehicles with rubber tires that come into direct contact with or arc across high-voltage cables are taken out of service for 48 hours. • Ensure that all buried electrical cables are thoroughly identified and marked prior to any excavation work. • A "Lockout Tagout" (LOTO) Procedure specific to the subproject should be prepared, personnel should be trained and its implementation should be supervised. • Anyone whose professional competence in electricity cannot be documented should not be employed in electrical work. • Residual current devices (leakage current protection relays) will be installed in all 		
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			<p>electrical panels to protect against potential electric shocks caused by insulation faults or contact with live conductors.</p> <ul style="list-style-type: none"> • CO₂ type fire extinguishers will be placed near electrical panels and equipment to ensure safe and effective fire response without causing damage to electrical components. • CO₂ type fire extinguishers will be placed near electrical panels and equipment to ensure safe and effective fire response without causing damage to electrical components. 		
8	OHS Physical Hazards: Rotating and Moving Equipment	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • Design machines to eliminate trap hazards and ensure that extremities are kept out of harm's way under normal operating conditions; i.e. availability of emergency stops dedicated to the machine and placed in strategic locations. • If a machine or equipment has an exposed moving part or an exposed pinch point that could endanger the safety of any worker, ensure that the machine or equipment is equipped with and protected by a guard or other device that prevents access to the moving part or pinch point. Guards should be designed and installed in conformance with appropriate machine safety standards. • Ensure that machinery with exposed or protected moving parts or in which energy can be stored (e.g. compressed air, electrical components) is turned-off, disconnected, isolated and de-energized 	<ul style="list-style-type: none"> • OHS Plan • Labor Management Plan • 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)

			<p>(Locked Out and Tagged Out) during service or maintenance.</p> <ul style="list-style-type: none"> • Where possible, ensure that equipment is designed and installed to enable routine servicing, such as lubrication, to be carried out without removing guarding devices or mechanisms • In order to prevent the staff from being affected by noise, they will be provided with sound-reducing headphones when necessary. • Routine maintenance, repair and inspection of machinery and equipment. • Visible, understandable and standard warning signs will be placed on all rotating and moving equipment. • Safe use instructions and emergency procedures for the equipment will be kept near the equipment. • All personnel will be trained on the safe use of the equipment, emergency stop procedures and possible risks. • Only trained, certified and authorized personnel will operate rotating and moving equipment. • All moving parts will be physically isolated with fixed guards or barriers. • All equipment will have easily accessible emergency stop buttons and personnel will be informed about this. • Lockout/tagout (LOTO) procedures will be fully implemented during maintenance and repair processes. • Equipment will be regularly checked by OHS officers and any nonconformities will 		
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			be immediately eliminated.			
9	OHS Physical Hazards: Welding and Hot Works	-	<ul style="list-style-type: none">Employees	<ul style="list-style-type: none">Ensure that appropriate eye protection, such as suitable respiratory protection against welding fumeswelder's goggles and/or a full-face eye shield , is provided for all personnel involved in or assisting with welding operations.If welding or hot cutting is performed outside of established welding work stations, ensure that special hot work and fire prevention precautions and Standard Operating Procedures (SOPs) are in place, including "Hot Work Permits, stand-by fire extinguishers, stand-by fire watch and maintaining fire watch for up to one hour after welding or hot cutting is finished".Develop specific procedures for hot work on tanks or vessels containing flammable materials.Ensure that welding work is only carried out by employees who have the appropriate professional qualification (aluminum, steel, resistance etc.)Ensure that all welders wear flame-resistant clothing made of non-melting materials (e.g., leather or treated cotton) that fully covers arms and legs to protect against sparks, spatter, and radiant heat.Provide heat- and cut-resistant welding gloves to all personnel performing or assisting with welding tasks to protect hands and wrists from burns, UV radiation, and mechanical hazards.Ensure that all welding personnel use safety footwear with heat-resistant soles	<ul style="list-style-type: none">OHS PlanLabor Management Plan	<ul style="list-style-type: none">Contractor (implementation and management of measures)Audit Consultant (monitoring the implementation of measures)Municipality / Project Owner (policy and support in complex cases)

			<p>and steel toe caps to protect against falling objects and molten metal splashes.</p> <ul style="list-style-type: none">• Require the use of hearing protection, such as earplugs or earmuffs, in high-noise environments or during operations like grinding or cutting associated with welding activities.• Ensure respiratory protection equipment (e.g., half-face or full-face respirators with appropriate filters) is available and used where ventilation is inadequate or fume levels exceed occupational exposure limits.• Provide insulated rubber mats or non-conductive platforms at welding stations to reduce the risk of electric shock, especially when working with arc welding equipment.• Require all personnel to secure long hair, remove metal accessories, and avoid synthetic clothing to minimize fire and electrical risks during welding activities.• Ensure proper ventilation or localized exhaust systems are in place to capture and remove hazardous welding fumes and gases from the work area.• Ensure fire extinguishers (preferably CO₂ type) are readily accessible at welding sites and that personnel are trained in their proper use in case of fire emergencies.		
10	OHS Physical Hazards: Industrial Vehicle	- <ul style="list-style-type: none">• Employees	<ul style="list-style-type: none">• Ensure that industrial vehicle operators are trained in the safe use of specialized vehicles such as forklifts, including safe loading/unloading, load limits• Make sure drivers undergo medical	<ul style="list-style-type: none">• Traffic Management Plan• OHS Plan• Labor Management Plan•	<ul style="list-style-type: none">• Contractor (implementation and management of measures)• Audit Consultant (monitoring the

	Driving and Site Traffic		<ul style="list-style-type: none">supervision• Ensure that mobile equipment with restricted rear visibility is equipped with audible reverse alarms and that large vehicles are manoeuvred by signallers and flaggers. Ensure that rights of way, site speed limits, vehicle inspection requirements, operating rules and procedures (e.g. prohibiting operation of forklifts with forks down), and control of traffic patterns or direction are established• Ensure that rights of way, site speed limits, vehicle inspection requirements, operating rules and procedures (e.g. prohibiting operation of forklifts with forks down), and control of traffic patterns or direction are established• Ensure that deliveries and movement of private vehicles are restricted to defined routes and areas, with 'one-way' movement preferred where appropriate• All sub-project vehicles should be fitted with GPS location/speed tracking devices.• Ensure the use of personnel with appropriate qualifications for the equipment used.		<ul style="list-style-type: none">implementation of measures)• Municipality / Project Owner (policy and support in complex cases)
11	OHS Physical Hazards: Ergonomics, Repetitive Motion, Manual Handling Lifting	<ul style="list-style-type: none">- Employees	<ul style="list-style-type: none">• Ensure that mechanical assists are used to eliminate or reduce the effort required to lift materials, hold tools and work objects, and that more than one person is lifting if weights exceed thresholds• Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures• Ensure that user-adjustable workstations	<ul style="list-style-type: none">• OHS Plan• Labor Management Plan•	<ul style="list-style-type: none">• Contractor (implementation and management of measures)• Audit Consultant (monitoring the implementation of measures)• Municipality / Project Owner

			<p>are provided</p> <ul style="list-style-type: none">• Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place• Ensure quality control and maintenance programs are in place that reduce unnecessary forces and effort and personnel are trained in manual handling.• Ensure that additional special circumstances, such as left-handed people, are considered.• Ensure that only personnel who have been approved by the occupational physician to be physically fit to lift heavy loads are employed.		(policy and support in complex cases)	
12	OHS Chemical Hazards	-	<ul style="list-style-type: none">• Employees	<ul style="list-style-type: none">• Ensure that the hazardous substance is replaced with a less hazardous substitute• Ensure that engineering and administrative control measures are in place to prevent or minimize the release of hazardous substances into the working environment, keeping the exposure level below internationally established or recognized limits• Ensure that the number of workers exposed or likely to be exposed is minimal.• Ensure that chemical hazards are communicated to workers through labeling and marking according to nationally and internationally recognized requirements and standards, including International Chemical Safety Cards (ICSC), Safety Data Sheets (SDS/SDSs) or equivalent. Any means of written communication should be in an easily understood	<ul style="list-style-type: none">• OHS Plan• Labor Management Plan•	<ul style="list-style-type: none">• Contractor (implementation and management of measures)• Audit Consultant (monitoring the implementation of measures)• Municipality / Project Owner (policy and support in complex cases)

			<p>language and be readily available to exposed workers and first-aid personnel</p> <ul style="list-style-type: none"> • Ensure that employees are trained in the use of available information (such as SDSs/SDSs), safe working practices and proper use of PPE • Personal Protective Equipment (PPE) that provides protection appropriate to the chemicals used should be provided free of charge to all employees, delivered against signature, and replaced with a new one when necessary. • During the construction phases of the project, mineral oils and chemicals planned to be used for maintenance of equipment (work machines, transformers, heat exchangers, etc.) will be temporarily stored in a sealed area in accordance with the legislation to prevent them from polluting surface and underground water resources. • Ensure that chemical spill kits are readily available in areas where hazardous chemicals are stored, handled, or used. The kits shall include absorbent materials, neutralizers, personal protective equipment, disposal bags, and appropriate labeling to enable safe and effective containment and clean-up of accidental spills. • Additionally, provide spill containment trays for all liquid chemicals to prevent the spread of leaks or spills, particularly during storage and transfer operations. These trays must be chemical-resistant. 		
ESS3 - Resource Efficiency and Pollution Prevention and Management					

Air Emissions and Ambient Air Quality					
13	Emissions to air due to construction activities	<ul style="list-style-type: none"> • Employees, • Residents of Varsakyaylası Neighborhood • Flora and Fauna 	<ul style="list-style-type: none"> • Ensure use of dust control methods, such as covers, water suppression, or increased moisture content for open storage piles.. • Ensure use of water suppression for control of loose materials on paved or unpaved road surfaces. • Within the scope of the sub-project, topsoil stripping and foundation digging for transformer buildings will be carried out. Vehicles provided by Kepez Municipality will be used to suppress dust emissions that will occur during stripping and excavation operations. Loading and unloading of trucks will be carried out carefully to prevent the material from being thrown and spread. • Transport trucks will be covered with tarpaulins on public roads, when arriving and leaving the site, • Tires of trucks will be cleaned to prevent sludge from being carried to the roads, • Modern equipment and vehicles will be used to meet the relevant emission standards in construction works, • Exhaust systems and emission levels of the equipment and vehicles will be checked regularly, • Good site practices will be implemented by utilizing low-emission construction equipment and vehicles to reduce the release of pollutants into the atmosphere and use of cleaner fuels and technologies during construction to minimize dust and other emissions. 	<ul style="list-style-type: none"> • Environmental and Management Plan • Social 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)

			<ul style="list-style-type: none"> In order to ensure that agricultural areas, natural vegetation and wild forms are minimally affected by dust during construction and transportation, dust that may arise will be prevented with effective interventions such as irrigation. Irrigation works will be carried out to reduce dust emissions on the roads used by vehicles and the bodies of vehicles carrying excavated materials will be closed. 		
Hazardous Materials Management					
14	Generation of hazardous waste during construction activities	<ul style="list-style-type: none"> Employees, Residents of Varsakyaylası Neighborhood Flora and Fauna 	<ul style="list-style-type: none"> Ensure that the types and the quantities of hazardous substances present in the project is identified. This information should be recorded and should include a summary table with the following information: <ul style="list-style-type: none"> Name and description (e.g. composition of a mixture) of the hazardous materials Classification (e.g. code, class or division) of the hazardous materials Internationally accepted regulatory reporting threshold quantity or national equivalent of the hazardous materials Quantity of hazardous materials used per month Characteristic(s) that make(s) the materials hazardous (e.g. flammability, toxicity) Ensure that the potential for uncontrolled reactions such as fire and explosion is analyzed 	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan 	<ul style="list-style-type: none"> Contractor (implementation and management of measures) Audit Consultant (monitoring the implementation of measures) Municipality / Project Owner (policy and support in complex cases)

			<ul style="list-style-type: none"> • Ensure that operators are trained on release prevention, including drills specific to hazardous materials as part of emergency preparedness response training • Ensure a description of response activities in the event of a spill, release or other chemical emergency, including: <ul style="list-style-type: none"> ○ Internal and external notification procedures ○ Specific responsibilities of individuals or groups ○ Decision process for assessing severity of the release, and determining appropriate actions ○ Evacuation routes ○ Post-event activities such as clean-up and disposal, incident investigation, employee re-entry, and restoration of spill response equipment. • Ensure that workers are provided with hazard communication and training to prepare them to recognize and respond to chemical hazards in the workplace. Programs should include aspects of hazard identification, safe operating and materials handling procedures, safe work practices, basic emergency procedures, and special hazards unique to their jobs. • Ensure that permitted maintenance activities such as hot work or confined space entries are defined and implemented • Ensure that appropriate PPE (footwear, 		
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			<p>masks, protective clothing and goggles in appropriate areas), emergency eyewash and shower stations, ventilation systems and sanitary facilities are provided</p> <ul style="list-style-type: none"> • Ensure that monitoring and record-keeping activities and accident and incident investigation reports, including audit procedures designed to verify and record the effectiveness of the prevention and control of exposure to occupational hazards, are kept on file for at least five years. • The storage area established under the existing SPP administrative building will be used for hazardous waste. Hazardous waste can be stored for a maximum of 6 months, even if the storage area is not full, in accordance with the regulation. When the storage area is full, it will be delivered to the licensed company without waiting for 6 months. • Appropriate containers, tanks and bunker systems will be used to contain hazardous materials and prevent spills, leaks or releases. Chemical spill kits will be available to capture and control accidental releases. 		
Waste Management					
15	Generation of waste during construction activities	<ul style="list-style-type: none"> • Employees, • Residents of Varsakyaylası Neighborhood • Flora and Fauna 	<ul style="list-style-type: none"> • Establish waste management priorities at the outset of activities based on an understanding of potential Environmental, Health, and Safety (EHS) risks and impacts and considering waste generation and its consequences • Ensure that a waste management hierarchy is established that considers 	<ul style="list-style-type: none"> • Environmental and Social Management Plan 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the

			<p>prevention, reduction, reuse, recovery, recycling, removal and finally disposal of waste</p> <ul style="list-style-type: none"> • Ensure that waste segregation and storage in waste storage areas is managed according to the standards set out in the GIIP and relevant legislation • Ensure that waste is classified and labeled according to waste codes. • Ensure that data and information is collected on waste streams generated under the sub-project, including characterization of waste streams by type, quantity and potential use/disposal. • Ensure that raw materials or inputs are substituted with less hazardous or toxic materials or with materials for which processing produces lower waste volumes. • Ensure that good housekeeping and operational practices, including inventory control, are established to reduce the amount of waste from materials that are outdated, out-of-specification, contaminated, damaged or more than facility needs • Ensure that the generation of hazardous waste is minimized by implementing strict waste segregation to avoid mixing of non-hazardous and hazardous waste to be managed • Topsoil waste to be generated during the sub-project construction phase will be used as filling material. The remaining part will be dumped in the area indicated by Kepez Municipality. 		<p>implementation of measures)</p> <ul style="list-style-type: none"> • Municipality / Project Owner (policy and support in complex cases)
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			<ul style="list-style-type: none"> • Separate containers will be placed for paper-cardboard, plastic, glass, metal waste. These recyclable materials will be collected separately from other waste streams, and their recovery will be carried out by Kepez Municipality. • Separate containers will be placed for other wastes and they will be accumulated in these containers. . Only household-type domestic waste will be collected by Kepez Municipality and transported to the Solid Waste Disposal Facility. • All waste will be disposed of in a way that will not harm the ecosystem, human or living health in accordance with National Legislation and the World Bank ESS's. • Reusable soil and other materials will be used in sub-project works. • Records regarding waste production, storage and disposal will be kept. • Employees will be provided with training on waste management practices. • Under no circumstances shall any solid waste, construction debris, or hazardous material be disposed of into the stream. All personnel will be informed and trained on site-specific environmental rules, and clearly visible warning signs will be placed near the stream to prevent unauthorized dumping or pollution. • Regular site inspections will be conducted to monitor compliance and ensure that no physical or chemical contamination affects the water body. 		
Wastewater Management					

16		<ul style="list-style-type: none"> Employees, Residents of Varsakyaylası Neighborhood Flora and Fauna 	<ul style="list-style-type: none"> All domestic wastewater (from toilets, sinks, showers, etc.) generated by the construction workforce will be collected in sealed tanks and regularly removed by licensed waste service providers. There will be no direct discharge of wastewater into the stream or nearby water bodies under any circumstances. If vehicle/equipment washing is required, it will be done in designated areas with impermeable surfaces and collection systems to prevent runoff. Construction sites will be equipped with spill kits and secondary containment for all chemical and fuel storage areas to prevent accidental leaks or discharge into the ground or water sources. Environmental supervisors will regularly inspect wastewater collection systems, and necessary documentation and records will be maintained. 	<ul style="list-style-type: none"> Environmental and Social Management Plan 	<ul style="list-style-type: none"> Contractor (implementation and management of measures) Audit Consultant (monitoring the implementation of measures) Municipality / Project Owner (policy and support in complex cases)
Noise					
17	Noise generation due to construction	<ul style="list-style-type: none"> Residents of Varsakyaylası Neighborhood Fauna Fish Farm 	<ul style="list-style-type: none"> Manage the potential impact of noise, selecting equipment with lower sound power levels Ensure implementation of Sub-project-specific SEP in order to address any noise-related grievance and plan/take corrective actions, where necessary. Ensure consultation with PAPs prior to the start of and during the construction activities to be conducted at this location in order to inform stakeholders about the scope and duration of the activities and mitigate the potential impacts for the period of construction 	<ul style="list-style-type: none"> Stakeholder Engagement Plan 	<ul style="list-style-type: none"> Contractor (implementation and management of measures) Audit Consultant (monitoring the implementation of measures) Municipality / Project Owner (policy and support in complex cases)

			<ul style="list-style-type: none"> • A time limit (07:00 am-07:00pm) will be imposed for the construction activities. • Residents Varsakyaylası Neighborhood will be informed about the timing of construction activities. • To ensure this, periodic maintenance and lubrication of work machines will be carried out on a timely and regular basis, and parts that may cause excessive noise will be renewed. • Background noise measurements will be carried out and noise levels will be monitored in sensitive areas. 		
ESS4 - Community Health and Safety					
Structural Safety of Subproject Infrastructure					
18	Injuries suffered as a consequence of falls or contact with electric	<ul style="list-style-type: none"> • Residents of Varsakyaylası Neighborhood 	<ul style="list-style-type: none"> • Ensure use of buffer strips or methods such as fencing and security gate of physical separation around project sites to protect the public from major hazards associated with hazardous materials incidents or process failure, as well as nuisance issues related to noise, odors, or other emissions • Ensure incorporation of siting and safety engineering criteria to prevent failures due to natural risks posed by earthquakes, tsunamis, wind, flooding, landslides and fire. To this end, all project structures should be designed in accordance with engineering and design criteria mandated by site-specific risks, including but not limited to seismic activity, slope stability, wind loading, and other dynamic loads • Develop sub-project specific hazard analysis that is required to include 	<ul style="list-style-type: none"> • Emergency Preparedness and Response Plan • Community Health and Safety Plan • Stakeholder Engagement Plan • 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)

			<p>management actions applicable to hazardous materials storage and use.</p> <ul style="list-style-type: none"> • Manage the potential impacts of off-site impacts of releases through measures intended to contain explosions and fires, alert the public, provide for evacuation of surrounding areas, establish safety zones around a site, and ensure the provision of emergency medical services to the public. 		
19	Burns and smoke inhalation from fires	<ul style="list-style-type: none"> • Residents of Varsakyaylası Neighborhood 	<ul style="list-style-type: none"> • Ensure use of buffer strips or other methods of physical separation around project sites to protect the public from major hazards associated with hazardous materials incidents or process failure, as well as nuisance issues related to noise, odors, or other emissions • Ensure incorporation of siting and safety engineering criteria to prevent failures due to natural risks posed by earthquakes, wind, flooding, landslides and fire. To this end, all sub-project structures should be designed in accordance with engineering and design criteria mandated by site-specific risks, including but not limited to seismic activity, slope stability, wind loading, and other dynamic loads • Develop sub-project specific hazard analysis that is required to include management actions applicable to hazardous materials storage and use. • Manage the potential impacts of off-site impacts of releases through measures intended to contain explosions and fires, alert the public, provide for evacuation of surrounding areas, establish safety zones around a site, and ensure the provision of 	<ul style="list-style-type: none"> • Emergency Preparedness and Response Plan • Community Health and Safety Plan • Stakeholder Engagement Plan • 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)

			emergency medical services to the public		
Traffic Safety					
20	Road safety	<ul style="list-style-type: none"> Residents of Varsakyaylası Neighborhood, Road Users 	<ul style="list-style-type: none"> Emphasizing safety aspects among drivers Improving driving skills and requiring licensing of drivers Adopting limits for trip duration and arranging driver rosters to avoid overtiredness Avoiding dangerous routes and times of day to reduce the risk of accidents Ensure use of speed control devices (governors) on trucks, and remote monitoring of driver actions Scheduling of traffic will be undertaken to avoid the peak hours on the local road network wherever practicable (e.g. early in the morning with the daylight). Scheduling information and planned traffic disruptions will be communicated well in advance to all related parties including authorities, local communities and nearby businesses. Traffic flow in accordance with approved traffic circulation projects on the entrance and exit roads to SPP sites; It will be provided with security measures and warning signs. Damages on the roads will be repaired by contractor. 	<ul style="list-style-type: none"> Traffic Management Plan Stakeholder Engagement Plan Community Health and Safety Plan 	<ul style="list-style-type: none"> Contractor (implementation and management of measures) Audit Consultant (monitoring the implementation of measures) Municipality / Project Owner (policy and support in complex cases)
21	Increase in traffic	<ul style="list-style-type: none"> Residents of Varsakyaylası Neighborhood, Road Users 	<ul style="list-style-type: none"> Ensure minimizing pedestrian interaction with construction vehicles Ensure collaborate with local communities and responsible authorities to improve signage, visibility and overall safety of roads, particularly along stretches located 	<ul style="list-style-type: none"> Traffic Management Plan Stakeholder Engagement Plan Community Health and Safety Plan 	<ul style="list-style-type: none"> Contractor (implementation and management of measures) Audit Consultant

			<p>near schools or other locations where children may be present. Collaborating with local communities on education about traffic and pedestrian safety (e.g. school education campaigns)</p> <ul style="list-style-type: none"> • Manage the potential impact of increase in traffic, coordination with emergency responders to ensure that appropriate first aid is provided in the event of accidents • Ensure use of locally sourced materials, whenever possible, to minimize transport distances. • Ensure employing safe traffic control measures, including road signs and flag persons to warn of dangerous conditions • Sub-project-specific SEP will be implemented to address any construction transport/traffic related grievance and plan/take corrective actions in line with the Grievance Mechanisms, where necessary. As part of SEP, local communities will be informed about the construction sites, traffic restrictions to be applied for health and safety purposes and duration of such restrictions. • Traffic Management Plans will be prepared, including traffic safety risks, accident prevention, training programs, relevant stakeholder engagement activities and site safety awareness raising activities and access restrictions. 		<p>(monitoring the implementation of measures)</p> <ul style="list-style-type: none"> • Municipality / Project Owner (policy and support in complex cases)
Transport of Hazardous Materials					
22	Random releases of hazardous	<ul style="list-style-type: none"> • Residents of Varsakyaylası Neighborhood 	<p>Hazard Identification and Assessment</p> <ul style="list-style-type: none"> • Sub-project specific Hazard Assessment and Management Actions will be 	<ul style="list-style-type: none"> • Stakeholder Engagement Plan • Community Health and Safety Plan 	<ul style="list-style-type: none"> • Contractor (implementation and management of

	substances into the receiving environment	<ul style="list-style-type: none"> • Employees • Flora and Fauna • Underground and surface water • Soil 	<p>developed, covering the entire hazardous materials lifecycle transportation, storage, and consumption. The assessment will include:</p> <ul style="list-style-type: none"> • The hazard characteristics of the identified substances (flammability, toxicity, reactivity, etc.) • Historical accident data involving the company and its contractors during transportation, storage, and use • Review of current safety procedures and ESMS applied by the company and subcontractors • Identification of exposure pathways and potential consequences to workers, the public, and the environment <p><i>Activity-Specific Mitigation Measures</i></p> <p><u><i>Transportation Phase</i></u></p> <ul style="list-style-type: none"> • To minimize the risk associated with the transportation of hazardous materials and waste: • Transportation shall comply with all relevant local regulations and international standards (e.g., ADR, IMDG, IATA). • Ensure the technical adequacy of transport vehicles (e.g., leakproof containers, fire extinguishers, GPS tracking). • Mandatory use of labeling and placarding in accordance with regulatory standards for hazardous cargo. • Drivers and other personnel involved shall be trained in: • Proper loading/unloading procedures • Safe driving practices for hazardous 	<ul style="list-style-type: none"> • Emergency Preparedness and Response Plan 	<p>measures)</p> <ul style="list-style-type: none"> • Audit Consultant (monitoring the implementation of measures) • Municipality / Project Owner (policy and support in complex cases)
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			<p>cargo</p> <ul style="list-style-type: none"> • Emergency response in the event of accidents or spills • A 24/7 emergency contact system shall be made available to respond to incidents during transport. <p><u>Storage Phase</u></p> <ul style="list-style-type: none"> • Materials will be stored in designated, secure, and ventilated storage areas, equipped with secondary containment. • Routine inspections of storage areas will be conducted to ensure compliance. • Segregation of incompatible materials to prevent chemical reactions (e.g., acids and bases). • Availability of spill containment kits, fire extinguishers, and eyewash stations. • Display of Safety Data Sheets (SDS) and safety signage in local languages. • Restricted access to authorized personnel only. <p><u>Consumption/Use Phase</u></p> <ul style="list-style-type: none"> • Implement engineering controls such as closed systems, fume hoods, and dosing equipment. • Ensure all users are trained in: • Safe handling procedures • Personal Protective Equipment (PPE) usage • Spill cleanup and first aid • Establish clear procedures for decontamination, disposal of residual materials, and safe shutdown in case of incidents. <p>Emergency Preparedness and Response</p> <ul style="list-style-type: none"> • A sub-project-specific Emergency 		
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			<p>Preparedness and Response Plan (EPRP) will be developed and maintained, covering:</p> <ul style="list-style-type: none"> • Planning coordination with local emergency services and hospitals • Availability and inspection of emergency response equipment (e.g., PPE, fire suppression, neutralization agents) • Training and periodic drills for employees, contractors, and security personnel • Clear communication protocols, including incident notification, evacuation routes, and incident reporting • 24-hour on-call emergency response services <p>Legal Compliance and Monitoring</p> <ul style="list-style-type: none"> • Ensure strict compliance with local laws and international conventions (e.g., Basel Convention for hazardous waste). • Conduct regular monitoring and internal audits of hazardous materials management. • Maintain incident records, investigate root causes, and revise procedures as needed. <p>Review mitigation measures annually and incorporate lessons learned from incidents or near misses.</p>		
ESS5 - Land Acquisition, Restrictions on Land Use and Involuntary Resettlement					
23	Risk of loss of income and livelihood	<ul style="list-style-type: none"> • Owner(s) of the neighboring parcel • Owners of the parcels that are in the ETL route 	<ul style="list-style-type: none"> • Considering the opposition declared by the unlicensed building owner, the panel layout plan was revised. • A safety distance was left to the area where the building is located and the panel installation was moved away from this area. • The interviews were conducted on a 	<ul style="list-style-type: none"> • Stakeholder Engagement Plan • 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the implementation of measures)

			<p>transparent and voluntary basis, and the building owner's rights of access and privacy were respected.</p> <ul style="list-style-type: none"> • The necessary information will be provided to the field personnel to prevent any coercive intervention. • The field plan was rearranged to prevent the closure of neighboring roads to the project area; the continuity of the roads was ensured. • The panel layout was optimized so as not to affect these roads. • Retaining walls will be manufactured using natural stone to ensure ground stability and reduce the risk of landslides. • Stone walls will be built with natural pulp provided from local mines and made compatible with the environment. • Greenery will be made with ivy-like plants on the stone walls in cooperation with the Kepez Municipality landscaping teams in order not to disrupt the neighboring parcel's view. <p>Ensure that the establishment of easement right for the ETL route is conducted in a transparent, fair and participatory manner; ensuring that right holders are included in the process with timely and adequate information, their rights are protected and they are provided with access to grievance mechanism.</p>		<ul style="list-style-type: none"> • Municipality / Project Owner (policy and support in complex cases)
ESS6 - Biodiversity Conservation and Sustainable Management of Living Natural Resources					
24	Disturbance on flora and fauna species	<ul style="list-style-type: none"> • Flora and Fauna 	<ul style="list-style-type: none"> • “Pre-construction surveys will be conducted to identify the presence and distribution of these species on the Sub-project site before construction begins. Habitats for these species will be designated, especially their nesting or 	<ul style="list-style-type: none"> • Environmental and Social Management Plan 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures) • Audit Consultant (monitoring the

			<p>burrowing sites. Disturbance or destruction of these habitats will be avoided during construction activities.“</p> <ul style="list-style-type: none"> • Vegetation removal will be minimized by conducting a thorough survey to avoid unnecessary clearing. • Barriers will be installed around known burrows or nesting sites to protect them from disruption during construction. These barriers can be temporary or permanent, depending on the duration of construction activities. • Sub-project construction sites and access roads will be separated from other areas with appropriate signboards, signs, and fences. personnel and vehicle access to this area will be limited with the construction site. • Habitat degradation will be reduced by keeping vehicles on access roads and minimizing pedestrian traffic in intact areas. • Activities will be minimized when seeds are available (e.g., avoid from stepping on grass or green plants, car washing, activities outside the working area).Choose equipment that will not damage the roots during tree removal operations. • Carry out tree removal operations in consultation with local people and with agricultural or forestry experts. • Monitor the retention and growth status of the trees that are moved for at least one year. 		<p>implementation of measures)</p> <ul style="list-style-type: none"> • Municipality / Project Owner (policy and support in complex cases)
ESS8 - Cultural Heritage					
25	Encountering cultural heritage in topsoil	•	<ul style="list-style-type: none"> • If any chance finds falling within the scope of Law No. 2863 is encountered during the underground applications, the work will be stopped immediately and the 	<ul style="list-style-type: none"> • Chance Find Procedure 	<ul style="list-style-type: none"> • Contractor (implementation and management of measures)

	stripping operations		<p>Antalya Cultural Heritage Preservation Regional Board Directorate and the relevant Museum Directorate will be notified and the "Chance Find Procedure" (Error: Reference source not found) will be applied.</p> <ul style="list-style-type: none"> Construction work will be stopped immediately in case of any chance finds. Kepez Municipality will inform İLBANK of the historical and cultural findings, if any, as well as the actions taken 		<ul style="list-style-type: none"> Supervisory Consultant (monitoring the implementation of measures) Municipality / Project Owner (policy and support in complex cases)
ESS10 - Stakeholder Engagement and Information Disclosure					
26	Grievances	<ul style="list-style-type: none"> Residents of Varsakyaylası Neighborhood, OIPs Vulnerable and disadvantaged individuals/groups 	<ul style="list-style-type: none"> Providing sufficient information to both local people and employees on the use of the Grievance mechanism, Providing the necessary training to the Grievance Mechanism Contact Person (GMCP) who will follow up on the receipt, recording, evaluation and reaching a convincing solution for both parties, Grievances will be logged, resolved, and closed within a short period of time to the satisfaction of the complainants. GM will be disclosed to all stakeholders' individuals to voice their concerns on the sub-project in accordance with the WB ESS10. Ensure that social experts are identified for vulnerable and disadvantaged groups in order to support their participation in sub-project activities. All details of Gender Based Violence (GBV) and Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) victims will be kept strictly confidential in the Grievance Registration Database. 	<ul style="list-style-type: none"> Stakeholder Engagement Plan 	<ul style="list-style-type: none"> Contractor (GM application & management) Supervision Consultant (monitoring GM implementation) Municipality / Project Owner (policy and support in complex cases)
27	Insufficient stakeholder	<ul style="list-style-type: none"> Residents of Varsakyaylası 	<ul style="list-style-type: none"> An adequate timing will be planned for interaction / communication with 	<ul style="list-style-type: none"> Stakeholder Engagement Plan 	<ul style="list-style-type: none"> Supervision Consultant

	engagement activities and stakeholder consultation	<ul style="list-style-type: none"> Neighborhood, OIPs Vulnerable and disadvantaged individuals/groups 	<p>communities and for engagement.</p> <ul style="list-style-type: none"> Regular consultations will be carried out with the authorities and communities regarding the sub-project management. Comprehensive information on the stakeholder engagement is provided in SEP of the sub-project and the SEP will be updated and implemented throughout the sub-project. Adequate timing will be planned to ensure effective communication and engagement with communities. Regular consultations will be conducted with both authorities and local stakeholders regarding sub-project management. Stakeholder engagement activities will be guided by the SEP, which will be regularly updated and implemented throughout the sub-project lifecycle. Additional stakeholder consultation meeting can be held if requested by the stakeholders, or if deemed necessary. 		<ul style="list-style-type: none"> Kepez Municipality Contractor
28	Inadequate / weak inclusion of vulnerable groups in sub-project processes and stakeholder consultations	<ul style="list-style-type: none"> Vulnerable and disadvantaged individuals/groups 	<ul style="list-style-type: none"> During the sub-project consultation, information and grievance mechanism introduction processes, communication strategies, communication tools and activities will be developed to ensure the meaningful participation of vulnerable and disadvantaged groups and women in the sub-project process. These improvements and measures will be implemented to ensure that the opinions, suggestions, and complaints of vulnerable and disadvantaged groups are conveyed to the sub-project smoothly and in a timely manner. 	<ul style="list-style-type: none"> Stakeholder Engagement Plan 	<ul style="list-style-type: none"> Supervision Consultant Kepez Municipality Contractor

4.3 Operation ESMP Matrix

No	Impact Description	Receptor	Proposed Mitigation Measure	Implementation Plans	Responsible Party
ESS2 - Labor and Working Conditions					
1	Improper Working Conditions	<ul style="list-style-type: none"> Employees 	<ul style="list-style-type: none"> Child labor, forced labor and unregistered labor will be prohibited. Workers will be provided with clear and understandable documented information on their rights under national labour law, including collective agreements, working hours, wages, overtime, compensation and benefits from the start of the employment relationship and whenever any significant changes occur. A Grievance Mechanism will be established for workers to raise concerns about their workplace. Workers will be informed about the grievance mechanism at the time of recruitment and will be provided with easy access to it. Written contracts will be provided to subcontractors, setting out detailed job descriptions, rights and obligations, and a Code of Conduct. Minimum legal labour standards will be met (preventing child/forced labour, anti-discrimination, working hours, minimum wages) as per International Labour Organization (ILO) regulations. Workers will be provided hygienic and adequate facilities. 	<ul style="list-style-type: none"> LMP 	<ul style="list-style-type: none"> Kepez Municipality Supervision Contractor Contractor
2	General OHS risks	<ul style="list-style-type: none"> Construction workforce 	<ul style="list-style-type: none"> Develop a comprehensive risk assessment document for subproject, addressing specific risks and defining mitigation measures. Ensure that all employees, including subcontractors, receive necessary OHS training covering identified risks. Prepare subproject management plans, including Safe Work Procedures and an Emergency Response Plan. Enforce safety procedures and provide appropriate PPE to all employees. Incorporate job-specific safety procedures and requirements in OHS training programs. Emergency scenarios should be determined for all risks and every employee should receive training on these scenarios. Prepare machine and operation specific "Safe Working Procedures" for all safety critical equipment and machinery and notify all workforce by signature. Serious safety issues that may arise with primary suppliers and primary supply workers will be managed as described in the Occupational Health and Safety Sub-Management Plan, which will cover primary supply 	<ul style="list-style-type: none"> Occupational Health and Safety Management Plan Emergency Response Plan 	<ul style="list-style-type: none"> Kepez Municipality Supervision Consultant Contractor

			<p>workers to the extent necessary.</p> <ul style="list-style-type: none"> • Written contracts will be provided to subcontractors, setting out detailed job descriptions, rights and obligations, and a Code of Conduct. • In case of OHS accidents resulting in loss of life, loss of limbs or eyes, or temporary incapacity for work lasting more than 72 hours, the Contractor shall immediately notify the Social Security Institution(within 24 hours) and follow up by filling in the Environmental and Social Reporting Template (ESRT) forms in accordance with the instructions of ILBANK. This process shall also include root cause analysis and corrective action plan. 		
3	Physical Hazards: Lifting Operations OHS Risks	<ul style="list-style-type: none"> • Construction workforce 	<ul style="list-style-type: none"> • Ensure that lifting area will be enclosed with fence to prevent access to the lifting area during lifting work. • Ensure that warning signs will be installed for lifting activities • Ensure that safety procedures will be used for lifting operations. • Ensure that lifting work will be carried out by well trained, qualified, and certified lifting team and with proper communication means and flag man. • Ensure that workers will be provided with all necessary PPE and safety materials. • Ensure all equipment used for lifting operations including slings, chains and hooks are checked technically and records are kept according to local safety legislation. • Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures. • Ensure that user-adjustable workstations are provided. • Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place. • Ensure that quality control and maintenance programs are in place to reduce unnecessary forces and effort, and personnel are trained in proper manual handling techniques. • Ensure that additional special circumstances, such as left-handed people, are considered. 	<ul style="list-style-type: none"> • Occupational Health and Safety Management Plan 	<ul style="list-style-type: none"> • Kepez Municipality • Supervision Consultant • Contractor
4	Fire Safety Prevention Measures and Emergency Response	<ul style="list-style-type: none"> • Construction workforce • Flora and fauna • Soil, water resources 	<ul style="list-style-type: none"> • Prepare an Emergency Response and Evacuation Plan before the commencement of works. • Ensure all employees are trained for their responsibility to report dangers and firefighting measures • Ensure that all flammable and hazardous materials are stored in designated, secure areas away from ignition sources. • Ensure firefighting systems and equipment are available • Ensure fire and emergency drills are conducted regularly. • Designate trained fire wardens for each area to lead evacuations and 	<ul style="list-style-type: none"> • Occupational Health and Safety Management Plan • Emergency Preparedness and Response 	<ul style="list-style-type: none"> • Kepez Municipality • Supervision Consultant • Contractor

			<p>coordinate with emergency responders.</p> <ul style="list-style-type: none"> • Keep an up-to-date list of emergency contacts, including local fire departments and hospitals, for quick access in case of fire. • Ensure the number of trained first-aiders is in accordance with workplace hazards class as specified in the First Aid Regulation. 	Plan	
5	Working at Height	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • The health status of all personnel who will work at heights will be checked in advance. In particular, people with the following diseases will not be allowed to work at heights: <ul style="list-style-type: none"> ○ Fear of heights (acrophobia) ○ Dizziness, loss of balance ○ Epilepsy ○ Visual impairments ○ Diabetes (diabetes mellitus) ○ High blood pressure • Employees will be required to provide a current health report stating "Can Work in Heavy and Hazardous Work". • All personnel working at heights will be provided with a parachute-type safety belt connected to a lifeline and its use will be mandatory. • Safe scaffolding or temporary platforms will be installed in all works. • A safety net will be stretched around the work area for materials and equipment that may fall and the necessary physical protectors will be provided. • Guide rope will be used in material transport; the compliance of lifting equipment with local legislation will be documented and regular maintenance/control records will be kept on site. • Only certified personnel will be assigned to the assembly and use of scaffolding, platforms and ladders. • All areas with a risk of falling will be surrounded by red and white warning tape, warning signs will be placed and unauthorized personnel will be prevented from entering these areas. • Care will be taken to secure materials that may fall from above, and if they are not to be taken down, it will be ensured that they are placed safely. • All employees must use their PPE (helmet, safety belt, gloves, non-slip shoes) completely and correctly before starting to work at heights. • Regular PPE inspections will be carried out by the OHS officer on site. • A "Safe Work Instruction" will be prepared and notified to the personnel who will work at heights against signature before the relevant activity and 	<ul style="list-style-type: none"> • Occupational Health and Safety Management Plan • Emergency Preparedness and Response Plan 	<ul style="list-style-type: none"> • Kepez Municipality • Supervision Consultant • Contractor

			<p>the necessary training will be provided.</p> <ul style="list-style-type: none"> • Trainings will cover risk awareness, use of equipment, emergency evacuation, fall prevention systems, and use of PPE. • Trainings will be updated periodically and repeated for each new personnel before starting work. • It is mandatory to conduct an area-based risk assessment, including working at heights, before each activity to be carried out within the scope of the subproject. • This assessment will be verified with checklists before starting work on site. • An emergency rescue plan will be prepared for falls or injuries in high-altitude work, and rescue equipment (rope, tripod, stretcher, etc.) will be kept ready on site. • A trained rescue personnel or OHS officer will be present on site throughout the work. 		
6	Gender-Based Violence (GBV), Sexual Exploitation Abuse / Sexual Harassment (SEA/SH)	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • All sub-project employees will be provided with training on GBV and SEA/SH. • All sub-project employees will sign the Code of Conduct and will be informed on this issue. • A Worker's GM will be implemented to capture GBV and SEA/SH related complaints. 	<ul style="list-style-type: none"> • Code of Conduct • LMP 	<ul style="list-style-type: none"> • Kepez Municipality • Supervision Consultant • Contractor
7	OHS Physical Hazards: Electrical Hazards	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • Ensure that all energized electrical devices and lines are marked with warning signs • Ensure that the devices are locked (de-charging and leaving open with a controlled locking device) and labeled (warning sign placed on the lock) during service or maintenance. • Ensure that all electrical cords, cables, and hand power tools are checked for frayed or exposed cords. Also, ensure that the manufacturer's recommendations for the maximum permitted operating voltage of portable hand tools are followed • Ensure that all electrical equipment used in environments that are or may be wet is double insulated/grounded; use equipment with ground fault 	<ul style="list-style-type: none"> • OHS Plan • Emergency Preparedness and Response Plan • Labor Management Plan • 	<ul style="list-style-type: none"> • Kepez Municipality

			<p>interrupter (GFI) protected circuits.</p> <ul style="list-style-type: none"> • Ensure that power cords and extension cords are protected against damage from traffic by shielding or suspending above traffic areas • Ensure that high-voltage equipment ('electrical hazard') and service rooms where access is controlled or prohibited are properly labeled. • Ensure that "No Approach" zones are established around or under high voltage lines. • Ensure that construction vehicles or other vehicles with rubber tires that come into direct contact with or arc across high-voltage cables are taken out of service for 48 hours. • Ensure that all buried electrical cables are thoroughly identified and marked prior to any excavation work. A "Lockout Tagout" (LOTO) Procedure specific to the sub-project should be prepared, personnel should be trained and its implementation should be supervised. • Residual current devices (leakage current protection relays) will be installed in all electrical panels to protect against potential electric shocks caused by insulation faults or contact with live conductors. • CO₂ type fire extinguishers will be placed near electrical panels and equipment to ensure safe and effective fire response without causing damage to electrical components. • CO₂ type fire extinguishers will be placed near electrical panels and equipment to ensure safe and effective fire response without causing damage to electrical components. 		
8	OHS Physical Hazards: Rotating and Moving Equipment	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • Design machines to eliminate trap hazards and ensure that extremities are kept out of harm's way under normal operating conditions; i.e. availability of emergency stops dedicated to the machine and placed in strategic locations. • If a machine or equipment has an exposed moving part or an exposed pinch point that could endanger the safety of any worker, ensure that the machine or equipment is equipped with and protected by a guard or other device that prevents access to the moving part or pinch point. Guards should be designed and installed in conformance with appropriate machine safety standards. 	<ul style="list-style-type: none"> • OHS Plan • Labor Management Plan • 	<ul style="list-style-type: none"> • Kepez Municipality

			<ul style="list-style-type: none">• Ensure that machinery with exposed or protected moving parts or in which energy can be stored (e.g. compressed air, electrical components) is turned-off, disconnected, isolated and de-energized (Locked Out and Tagged Out) during service or maintenance.• Where possible, ensure that equipment is designed and installed to enable routine servicing, such as lubrication, to be carried out without removing guarding devices or mechanisms• In order to prevent the staff from being affected by noise, they will be provided with sound-reducing headphones when necessary.• Routine maintenance, repair and inspection of machinery and equipment• Visible, understandable and standard warning signs will be placed on all rotating and moving equipment.• Safe use instructions and emergency procedures for the equipment will be kept near the equipment.• All personnel will be trained on the safe use of the equipment, emergency stop procedures and possible risks.• Only trained, certified and authorized personnel will operate rotating and moving equipment.• All moving parts will be physically isolated with fixed guards or barriers.• All equipment will have easily accessible emergency stop buttons and personnel will be informed about this.• Lockout/tagout (LOTO) procedures will be fully implemented during maintenance and repair processes.• Equipment will be regularly checked by OHS officers and any nonconformities will be immediately eliminated.		
9	OHS Physical Hazards: Welding and Hot Works	- <ul style="list-style-type: none">• Employees	<ul style="list-style-type: none">• Ensure that appropriate eye protection, such as welder's goggles and/or a full-face eye shield, is provided for all personnel involved in or assisting with welding operations.• If welding or hot cutting is performed outside of established welding work stations, ensure that special hot work and fire prevention precautions and Standard Operating Procedures (SOPs) are in place, including "Hot Work Permits, stand-by fire extinguishers, stand-by fire watch and maintaining fire watch for up to one hour after welding or	<ul style="list-style-type: none">• OHS Plan• Labor Management Plan•	<ul style="list-style-type: none">• Kepez Municipality

			<p>hot cutting is finished".</p> <ul style="list-style-type: none"> • Develop specific procedures for hot work on tanks or vessels containing flammable materials. • Ensure that appropriate eye protection, such as suitable respiratory protection against welding fumes welder's goggles and/or a full-face eye shield, is provided for all personnel involved in or assisting with welding operations. • Ensure that welding work is only carried out by employees who have the appropriate professional qualification (aluminum, steel, resistance etc.) • Ensure that all welders wear flame-resistant clothing made of non-melting materials (e.g., leather or treated cotton) that fully covers arms and legs to protect against sparks, spatter, and radiant heat. • Provide heat- and cut-resistant welding gloves to all personnel performing or assisting with welding tasks to protect hands and wrists from burns, UV radiation, and mechanical hazards. • Ensure that all welding personnel use safety footwear with heat-resistant soles and steel toe caps to protect against falling objects and molten metal splashes. • Require the use of hearing protection, such as earplugs or earmuffs, in high-noise environments or during operations like grinding or cutting associated with welding activities. • Ensure respiratory protection equipment (e.g., half-face or full-face respirators with appropriate filters) is available and used where ventilation is inadequate or fume levels exceed occupational exposure limits. • Provide insulated rubber mats or non-conductive platforms at welding stations to reduce the risk of electric shock, especially when working with arc welding equipment. • Require all personnel to secure long hair, remove metal accessories, and avoid synthetic clothing to minimize fire and electrical risks during welding activities. • Ensure proper ventilation or localized exhaust systems are in place to capture and remove hazardous welding fumes and gases from the 		
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			<p>work area.</p> <ul style="list-style-type: none"> • Ensure fire extinguishers (preferably CO₂ type) are readily accessible at welding sites and that personnel are trained in their proper use in case of fire emergencies. 		
10	OHS Physical Hazards: Industrial Vehicle Driving and Site Traffic	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • Ensure that industrial vehicle operators are trained in the safe use of specialized vehicles such as forklifts, including safe loading/unloading, load limits • Make sure drivers undergo medical supervision • Ensure that moving equipment with restricted rear visibility is equipped with audible back-up alarms • Ensure that rights of way, site speed limits, vehicle inspection requirements, operating rules and procedures (e.g. prohibiting operation of forklifts with forks down), and control of traffic patterns or direction are established • Ensure that deliveries and movement of private vehicles are restricted to defined routes and areas, with 'one-way' movement preferred where appropriate • Ensure the use of personnel with appropriate qualifications for the equipment used. 	<ul style="list-style-type: none"> • OHS Plan • Labor Management Plan • 	<ul style="list-style-type: none"> • Kepez Municipality
11	OHS Physical Hazards: Ergonomics, Repetitive Motion, Manual Handling Lifting	<ul style="list-style-type: none"> • Employees 	<ul style="list-style-type: none"> • Ensure that mechanical assists are used to eliminate or reduce the effort required to lift materials, hold tools and work objects, and that more than one person is lifting if weights exceed thresholds • Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures • Ensure that user-adjustable workstations are provided • Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place • Ensure quality control and maintenance programs are in place that reduce unnecessary forces and effort • Ensure that additional special circumstances, such as left-handed people, are considered • Ensure that only personnel who have been approved by the occupational physician to be physically fit to lift heavy loads are 	<ul style="list-style-type: none"> • OHS Plan • Labor Management Plan • 	<ul style="list-style-type: none"> • Kepez Municipality

			employed.		
12	OHS Chemical Hazards	-	<ul style="list-style-type: none">Employees <ul style="list-style-type: none">Ensure that the hazardous substance is replaced with a less hazardous substituteEnsure that engineering and administrative control measures are in place to prevent or minimize the release of hazardous substances into the working environment, keeping the exposure level below internationally established or recognized limitsEnsure that the number of workers exposed or likely to be exposed is minimal.Ensure that chemical hazards are communicated to workers through labeling and marking according to nationally and internationally recognized requirements and standards, including International Chemical Safety Cards (ICSC), Safety Data Sheets (SDS/SDSs) or equivalent. Any means of written communication should be in an easily understood language and be readily available to exposed workers and first-aid personnelEnsure that employees are trained in the use of available information (such as SDSs/SDSs), safe working practices and proper use of PPEOil changes and maintenance of the construction equipment to be used in the sub-project area will be carried out by the authorized service, and the waste batteries, tires, waste oils and parts contaminated with waste oils that may arise from these processes will be processed together with the waste collected in the relevant service.In order to prevent the pollution of surface and underground water resources by the mineral oils and chemicals planned to be used for the maintenance of the equipment (construction equipment, transformer, heat exchanger, etc.) during the construction/operation phases of the sub-project, temporary storage will be provided in a sealed area in accordance with the legislation.Ensure that chemical spill kits are readily available in areas where hazardous chemicals are stored, handled, or used. The kits shall include absorbent materials, neutralizers, personal protective equipment, disposal bags, and appropriate labeling to enable safe and effective containment and clean-up of accidental spills.Additionally, provide spill containment trays for all liquid chemicals to	<ul style="list-style-type: none">OHS PlanLabor Management Plan	<ul style="list-style-type: none">Kepez Municipality

			prevent the spread of leaks or spills, particularly during storage and transfer operations. These trays must be chemical-resistant.		
ESS3 - Resource Efficiency and Pollution Prevention and Management					
Wastewater and Ambient Water Quality					
13	Generation and disposal of wastewater due to operation activities	<ul style="list-style-type: none"> Soil Quality 	<ul style="list-style-type: none"> The wastewater produced by the personnel working in the facility will be managed by the septic tank located in the existing administrative building. The wastewater accumulated in septic tank will be sent to disposal by vacuum trucks regularly. Spill kits will always be available at construction sites. A Site Closure Plan will be prepared for the phase after the operation. This plan is recorded regarding how the backup will be combined and shared. 	<ul style="list-style-type: none"> Environmental and Social Management Plan 	<ul style="list-style-type: none"> Kepez Municipality
Hazardous Materials Management					
14	Generation of hazardous waste during operation activities	<ul style="list-style-type: none"> Residents of Varsakyaylası Neighborhood, Employees Flora and Fauna 	<ul style="list-style-type: none"> Ensure that the types and the quantities of hazardous substances present in the project should be identified. This information should be recorded and should include a summary table with the following information: <ul style="list-style-type: none"> Name and description (e.g. composition of a mixture) of the hazardous materials Classification (e.g. code, class or division) of the hazardous materials Internationally accepted regulatory reporting threshold quantity or national equivalent of the hazardous materials Quantity of hazardous materials used per month Characteristic(s) that make(s) the materials hazardous (e.g. flammability, toxicity) Ensure that the potential for uncontrolled reactions such as fire and explosion is analyzed <p>Ensure that operators are trained on release prevention, including drills specific to hazardous materials as part of emergency preparedness response training</p> <p>Ensure a description of response activities in the event of a spill, release or other chemical emergency, including:</p> <ul style="list-style-type: none"> Internal and external notification procedures Specific responsibilities of individuals or groups 	<ul style="list-style-type: none"> Environmental and Social Management Plan 	<ul style="list-style-type: none"> Kepez Municipality

			<ul style="list-style-type: none"> ○ Decision process for assessing severity of the release, and determining appropriate actions ○ Facility evacuation routes ○ Post-event activities such as clean-up and disposal, incident investigation, employee re-entry, and restoration of spill response equipment. • Ensure that workers are provided with hazard communication and training to prepare them to recognize and respond to chemical hazards in the workplace. • Programs should include aspects of hazard identification, safe operating and materials handling procedures, safe work practices, basic emergency procedures, and special hazards unique to their jobs. • Ensure that permitted maintenance activities such as hot work or confined space entries are defined and implemented • Ensure that appropriate PPE (footwear, masks, protective clothing and goggles in appropriate areas), emergency eyewash and shower stations, ventilation systems and sanitary facilities are provided • Ensure that monitoring and record-keeping activities and accident and incident investigation reports, including audit procedures designed to verify and record the effectiveness of the prevention and control of exposure to occupational hazards, are kept on file for at least five years. • During the operation phases of the project, mineral oils and chemicals planned to be used for maintenance of equipment (work machines, transformers, heat exchangers, etc.) will be temporarily stored in a sealed area in accordance with the legislation to prevent them from polluting surface and underground water resources. 		
Waste Management					
15	Generation of waste during operation activities	<ul style="list-style-type: none"> • Residents of Varsakyaylası Neighborhood, • Employees • Flora and Fauna 	<ul style="list-style-type: none"> • Establish waste management priorities at the outset of activities based on an understanding of potential Environmental, Health, and Safety (EHS) risks and impacts and considering waste generation and its consequences • Ensure that a waste management hierarchy is established that considers prevention, reduction, reuse, recovery, recycling, removal and finally disposal of waste • Ensure that waste segregation and storage in temporary waste storage areas is managed according to the standards set out in the 	<ul style="list-style-type: none"> • Environmental and Social Management Plan 	<ul style="list-style-type: none"> • Kepez Municipality

			<p>GIIP and relevant legislation</p> <ul style="list-style-type: none"> • Ensure that waste is classified and labeled according to waste codes. • Ensure that data and information is collected on waste streams generated under the project, including characterization of waste streams by type, quantity and potential use/disposal. • Ensure that raw materials or inputs are substituted with less hazardous or toxic materials or with materials for which processing produces lower waste volumes. • Ensure that good housekeeping and operational practices, including inventory control, are established to reduce the amount of waste from materials that are outdated, out-of-specification, contaminated, damaged or in excess of facility needs • Ensure that the generation of hazardous waste is minimized by implementing strict waste segregation to avoid mixing of non-hazardous and hazardous waste to be managed • Waste panels will be collected in a designated area at the sub-project site and delivered to a licensed recycling company. • Separate containers will be placed for paper-cardboard, plastic, glass, metal waste. These recyclable materials will be collected separately from other waste Streams, and their recovery an evaluation will be carried out by Kepez Municipality. • Separate containers will be placed for other wastes and they will be accumulated in these containers. . Only household-type domestic waste will be collected by Kepez Municipality and transported to the Solid Waste Disposal Facility. • All waste will be disposed of in a way that will not harm the ecosystem, human or living health in accordance with National Legislation and the World Bank ESS's. • Records regarding waste production, storage and disposal will be kept. • Employees will be provided with training on waste management practices. • Under no circumstances shall any solid waste, construction debris, or hazardous material be disposed of into the stream. All personnel will be informed and trained on site-specific environmental rules, and clearly visible warning signs will be placed near the stream to prevent 		
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			<ul style="list-style-type: none"> unauthorized dumping or pollution. Regular site inspections will be conducted to monitor compliance and ensure that no physical or chemical contamination affects the water body. 		
ESS4 - Community Health and Safety					
16	Structural Safety of Subproject Infrastructure	<ul style="list-style-type: none"> Residents of Varsakyaylası Neighborhood 	<ul style="list-style-type: none"> Ensure use of buffer strips or other methods of Wire fences, security gates around project sites to protect the public from major hazards associated with hazardous materials incidents or process failure, as well as nuisance issues related to noise, odors, or other emissions Ensure incorporation of siting and safety engineering criteria to prevent failures due to natural risks posed by earthquakes, wind, flooding, landslides and fire. To this end, all sub-project structures should be designed in accordance with engineering and design criteria mandated by site-specific risks, including but not limited to seismic activity, slope stability, wind loading, and other dynamic loads Develop sub-project specific hazard analysis that is required to include management actions applicable to hazardous materials storage and use. Manage the potential impacts of off-site impacts of releases through measures intended to contain explosions and fires, alert the public, provide for evacuation of surrounding areas, establish safety zones around a site, and ensure the provision of emergency medical services to the public 	<ul style="list-style-type: none"> Emergency Preparedness and Response Plan Community Health and Safety Plan 	<ul style="list-style-type: none"> Kepez Municipality
ESS6 - Biodiversity Conservation and Sustainable Management of Living Natural Resources					
17	Fauna-Flora Waste Removal Practices that disturb or attract fauna-wild animals	<ul style="list-style-type: none"> Flora and Fauna 	<ul style="list-style-type: none"> Domestic and industrial waste management should be carried out in accordance with the legislation and no waste should be left in the open. Devices or applications that produce lights, or sounds that wild vertebrates perceive as threatening should be minimized. Pets that may threaten animals should not be kept and food that will attract wild animals to the SPP site should not be left in the area 	<ul style="list-style-type: none"> Environmental and Social Management Plan 	<ul style="list-style-type: none"> Kepez Municipality
ESS6 - Biodiversity Conservation and Sustainable Management of Living Natural Resources					
17	Fauna-Flora	<ul style="list-style-type: none"> Flora and 	<ul style="list-style-type: none"> Domestic and industrial waste management should be carried out in 	<ul style="list-style-type: none"> Environmental 	<ul style="list-style-type: none"> Kepez

	Waste Removal Practices that disturb or attract fauna-wild animals	Fauna	<p>accordance with the legislation and no waste should be left in the open.</p> <ul style="list-style-type: none"> Devices or applications that produce lights, or sounds that wild vertebrates perceive as threatening should be minimized. Pets that may threaten animals should not be kept and food that will attract wild animals to the SPP site should not be left in the area 	and Social Management Plan	Municipality
ESS10 - Stakeholder Engagement and Information Disclosure					
18	Providing information about the sub-project	Residents of Varsakyaylası Neighborhood OIPs PAPs	<ul style="list-style-type: none"> All current information regarding sub-project operation information should be shared regularly in local languages and in understandable formats. Notifications received by the grievance mechanism should be regularly evaluated and efforts should be carried out for solutions. 	• SEP	• Kepez Municipality
19	Insufficient stakeholder engagement activities and stakeholder consultation.	Residents of Varsakyaylası Neighborhood OIPs Vulnerable and disadvantaged individuals/groups	<ul style="list-style-type: none"> Stakeholder Engagement Plan will be developed and implemented for the operation phase of the sub-project. Stakeholder Engagement Plan will be disclosed at the sub-project web site. Interaction / communication will be established with communities, and adequate timing will be planned for engagement activities. Additionally, regular consultations will be carried out with the authorities and communities regarding the sub-project management. Adequate timing will be planned to ensure effective communication and engagement with communities. Regular consultations will be conducted with both authorities and local stakeholders regarding sub-project management. Stakeholder engagement activities will be guided by the SEP, which will be regularly updated and implemented throughout the sub-project lifecycle. 	• SEP	• Kepez Municipality
20	Weak management of grievance mechanism	Residents of Varsakyaylası Neighborhood OIPs Vulnerable and disadvantaged individuals/groups	<ul style="list-style-type: none"> Grievance mechanism will be revised in accordance with the WB ESS10 to all stakeholders' individuals to voice their concerns on the sub-project. Revised GM will be disclosed to all stakeholders' individuals to voice their concerns on the sub-project in accordance with the WB ESS10. 	• SEP	• Kepez Municipality

21	Inadequate / weak inclusion of vulnerable groups in Project processes and stakeholder consultations	Vulnerable and disadvantaged groups	<ul style="list-style-type: none"> During the sub-project consultation, information and grievance mechanism introduction processes, communication strategies, communication tools and activities will be developed to ensure the meaningful participation of vulnerable and disadvantaged groups and women in the sub-project process. These improvements and measures will be implemented to ensure that the opinions, suggestions, and complaints of vulnerable and disadvantaged groups are conveyed to the sub-project smoothly and in a timely manner. 	<ul style="list-style-type: none"> SEP 	<ul style="list-style-type: none"> Kepez Municipality
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4.4 Monitoring and Reporting

The sub-borrower will conduct internal monitoring of sub-project's E&S performance and submit Periodic Monitoring Reports to ILBANK in line with the sub-financing agreement requirements. The information to be provided as part of reporting for the respective monitoring period (once a month during construction and twice a year during operation) will include the following:

- Up-to-date information on the sub-project and progress with sub-project implementation (e.g. status of construction, Subproject timeline, etc.),
- Status of compliance with legal requirements (e.g. Subproject permitting status, status and outcomes of audits done by national authorities, fines imposed by national authorities if any, etc.)
- Details of how the requirements of the IFI standards (e.g. WB ESSs) are being met on the basis of compliance with Subproject level Environmental and Social Action Plans (ESAPs),
- Incident and accident reports and statistics,
- Current Subproject level E&S organization and capacity (including information on capacity building and training),
- Progress with Subproject level stakeholder engagement activities and management of grievances, and
- Records on E&S non-conformities identified and general status of Corrective Action Plan implementation at Subproject level (in case of non-conformities).

Key performance indicators (KPIs) of this procedure will be monitored, verified, and evaluated within the scope of the sub-project monitoring stage. The KPIs for both construction and operation phases of the sub-project are presented in Table 21.

Table 21 Key Performance Indicators for Both Construction and Operation Phases of the Subproject

Monitoring Focus	KPI
Documentation	
Following ESMP Project specific plans will be developed and be in place.	Full compliance with Subproject's ESMP
Air Quality	
Air Quality incidents	Minimization and continued improvement in the number of the reported air quality related incidents.
Non-Compliance with air quality standards	Zero grievances per year
Community grievances	Minimization and continued improvement in the number of air quality related community grievances
Violation on speed limit	Minimization and continued improvement in the number of reported violations on speed limit
Noise	
Noise and Vibration incidents	Minimize and continued improvement in number of reported noise and vibration related incidents
Non-Compliance with Project standards	Zero Non-Compliance Reports (NCRs) per year
Number of noise-related community grievances	Zero grievances per year
Community grievances	Minimization and continued improvement in the number of noise related community grievances
Water / Wastewater	
Spill incident	Minimization and continued improvement in the number of the reported water quality related incidents.
Non-Compliance with Subproject standards	Zero NCRs per year
Groundwater levels of the community/private wells	No significant adverse impact

Monitoring Focus	KPI
Water quality analyses	Meeting set national and international water quality standards for surface and groundwater impacted and/or near the Subproject
Flood incidents	No infrastructure damage and damage to loads/humans
Waste	
Waste Generation	Minimization of total waste generated Decrease in the ratio of hazardous waste generated to total waste (by contamination + by generation)
Waste Disposal	Increase in the ratio of recovered/reused/recycled waste to total waste generated
Soil Quality	
Spill incident	Minimization and continued improvement in the number of the reported soil quality related incidents
Non-Compliance with Subproject standards	Zero NCRs per year
Soil quality accidents	Zero accident per year
Number of soil-related community grievances	Zero grievances per year
Traffic	
Number of non-compliances against the mitigation controls identified in Traffic and Transport Management Plan	Decreasing number/ continuous improvement in number of reported non-compliances
Number of drivers found to be exceeding speed limits or driving unsafely	Zero exceedance per year
Number of road traffic accidents involving: Accidental injuries and deaths, Spillages (such as cargo or fuel), Wildlife-vehicle collisions.	Zero accidents per year
Number of traffic-related grievances	Zero grievances per year
Health, Safety and Environment	
% of scheduled HSE Inspection	>90
% of attendance at HSE meetings	>90
% of closing of NCRs	100
Reporting safe observations	100%
Reporting unsafe observations	100%
Reporting near misses	100%
Reporting number of incidents	100%
Reporting number of accidents	100%
Reporting day-loss	100%
% of Toolbox attending	>90
% of Risk Assessment compliance	>90
% of Legal Requirements compliance	100%
Results of scheduled audits	>85

Monitoring Focus	KPI
HSE training carried out to training matrix > 90% of all training to matrix	>90
% of attendance at scheduled trainings	>90
Engagement in HSE program by individual managers and supervisors	>90
Engagement in HSE program by contractor's	>90
Labor and Working Conditions	
Number of worker grievances closed out within the target timeframe	100% compliance with labor laws and regulations Zero unresolved health and safety incidents within the target timeframe 100% availability of required PPE 90% or higher worker satisfaction rate
Community Health and Safety	
Number of communicable and non-communicable diseases and injuries.	Negative Trend/No significant increase in communicable and non-communicable disease and injury rates per 1,000 residents per annum.
Number of community health safety & security grievances from local communities as recorded in the grievance management system.	Decreasing number/ continuous improvement in number of grievances
Number of reported community health & safety incidents	Zero incidents per year
Number of reported air quality or noise incidents	Zero incidents per year
Direct and indirect threats posed by construction activities against traffic and pedestrians	Zero number of drivers found to be exceeding speed limits or driving unsafely Zero accidental injuries and deaths, Zero traffic-related grievances
Access to the Construction Site - Security Fence/ Protection Tape	Zero Number of unauthorized accesses to the Subproject area
Trainings	
Training records	Trainings on ESMP and SEP documents. Providing all trainings (including GM, GBV, SEA/SH) to all employees. 100% of scheduled training sessions conducted 80% or higher participant satisfaction rate Zero participants without completion certificates if applicable
Disclosure	
Grievance Records, Disclosure meeting participant records, ESMP, SEP will be disclosed at Project web site in two languages (English and Turkish).	All grievances closed-out within the target timeframe ESMP and SEP will be prepared and disclosed at the Project web site
Vulnerable groups:	
Incidents, Grievances, Toolbox talks and trainings, Information/ disclosure	All grievances closed-out within the target timeframe Sufficient information provided to the VGs
Grievance mechanism	
Grievance Records, GM disclosure	All grievances closed-out within the target timeframe GM disclosure to the PAPs, stakeholders GM disclosure at Subproject web site
Cultural Heritage	
Existence of a Chance Find	Zero Chance Find Records

Table 22. Construction Environmental and Social Monitoring Table

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
1	•Transport	• Transportation Security and Transportation Interruptions	• Sub-project site access route	• The grievances of the population in the immediate vicinity or the participants in transportation activities , by checking warning and informative signs	• Daily	• Zero vehicle accidents • Minimization and continued improvement in the number of reported violations on speed limit	• World Bank Environmental and Social Standard 4 (ESS4) • Regulation on the Transport of Hazardous Materials by Road • Road Traffic Regulation • Regulation on Traffic Signs	• Kepez Municipality • Contractor • Supervision Consultant	It will be covered within the scope of the sub-project budget.
2	•Ambient air quality	• Dust	• Sub-project area, sub-project area access route, energy transmission line route	• Visual monitoring, • Grievance Mechanism Records	• Daily	• Minimization and continued improvement in the number of the reported air quality related incidents. • Zero grievances per year	• Word Bank Environmental and Social Standard 3 (WB ESS3): Resource Efficiency and Pollution Prevention and Management • WB ESS1: Assessment and Management of Environmental and Social Risks and	• Kepez Municipality • Contractor • Supervision Consultant	

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
3		<ul style="list-style-type: none"> Exhaust Gas Effects 	<ul style="list-style-type: none"> Sub project area, sub-project area access route, energy transmission line route 	<ul style="list-style-type: none"> Visual monitoring, Grievance Mechanism 	<ul style="list-style-type: none"> Daily 	<ul style="list-style-type: none"> Minimization and continued improvement in the number of reported violations on speed limit 	<ul style="list-style-type: none"> Impacts Exhaust Gas Emission Control Regulation 	<ul style="list-style-type: none"> Kepez Municipality Contractor Supervision Consultant 	
4	<ul style="list-style-type: none"> Environmental noise management 	<ul style="list-style-type: none"> Noise level 	<ul style="list-style-type: none"> Sub project area, sub-project area access route, energy transmission line route 	<ul style="list-style-type: none"> According to the complaints of the population in the immediate vicinity 	<ul style="list-style-type: none"> In case of complaint 	<ul style="list-style-type: none"> Minimize and continued improvement in number of reported noise and vibration related incidents Zero Non-Compliance Reports (NCRs) per year Zero grievances per year Minimization and continued improvement in the number of noise related community 	<ul style="list-style-type: none"> World Bank EHS Guidelines WB ESS1: Assessment and Management of Environmental and Social Risks and Impacts WB ESS3: Resource Efficiency and Pollution Prevention and Management Environmental Noise Control Regulation Regulation on the Environmental Noise Emissions Caused by Equipment Used Outdoors 	<ul style="list-style-type: none"> Kepez Municipality Contractor Supervision Consultant 	

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
						grievances			
5	• Surface water quality	• Fuel, oil, antifreeze, etc. spills	• Sub project area, sub-project area access route, energy transmission line route	• Visual monitoring, • Grievance Mechanism Records	• Daily	<ul style="list-style-type: none"> Minimization and continued improvement in the number of the reported soil quality related incidents Zero NCRs per year Zero accident per year Zero grievances per year No significant adverse impact 	<ul style="list-style-type: none"> World Bank General EHS Guidelines WB ESS1: Assessment and Management of Environmental and Social Risks and Impacts Management WB ESS3: Resource Efficiency and Pollution Prevention and Management Environmental Law Regulation on the Protection of Ground Waters against Pollution and Deterioration Regulation on the Control of Pollution Caused by Hazardous Substances in and around Water Environment Regulation on Wastewater Collection and Removal Systems 	<ul style="list-style-type: none"> Kepez Municipality Contractor Supervision Consultant 	

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
6	• Waste Management	• Inverters , batteries etc. disposal of sourced electronic waste	• Sub-project area	• Visual monitoring, • Waste records • Grievance mechanism records	• Daily	• Decrease in the ratio of hazardous waste generated to total waste (by contamination + by generation)	• World Bank General EHS Guidelines: • WB ESS1: Assessment and Management of Environmental and Social Risks and Impacts Management • WB ESS3: Resource Efficiency and Pollution Prevention and Management Environmental Law • Regulation on Waste Management • Zero Waste Regulation • Regulation on Packaging Waste Control • Regulation on Waste Oil Management	• Kepez Municipality • Contractor • Supervision Consultant	
7		• Hazardous waste	• Sub-project area	• Visual monitoring, • Waste records • Grievance Mechanism Records	• Daily	• Decrease in the ratio of hazardous waste generated to total waste (by contamination + by generation)	• Regulation on Waste Management • Zero Waste Regulation • Regulation on Packaging Waste Control • Regulation on Waste Oil Management	• Kepez Municipality • Contractor • Supervision Consultant	
8		• Domestic Waste	• Sub-project area	• Visual monitoring, • Waste records • Grievance Mechanism Records	• Daily	• Minimization of total waste generated • Increase in the ratio of recovered/ reused/ recycled waste to total generated	• Regulation on Medical Waste Control • Regulation on Control of Waste and Electrical Electronic Equipment • Regulation on Control of Waste	• Kepez Municipality • Contractor • Supervision Consultant	

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
9		<ul style="list-style-type: none"> Packaging Waste 	<ul style="list-style-type: none"> Sub-project area 	<ul style="list-style-type: none"> Visual monitoring, Waste records Grievance Mechanism Records 	<ul style="list-style-type: none"> Daily 	<ul style="list-style-type: none"> Minimization of total waste generated Increase in the ratio of recovered/reused/recycled waste to total waste generated 	<ul style="list-style-type: none"> Batteries and Accumulators Regulation on Control of End-of-life Tires 	<ul style="list-style-type: none"> Kepez Municipality Contractor Supervision Consultant 	
10	<ul style="list-style-type: none"> Community Health and Safety 	<ul style="list-style-type: none"> Number of recorded safety incidents involving project workers and local people 	<ul style="list-style-type: none"> Sub-project area, sub-project area access route, energy transmission line route 	<ul style="list-style-type: none"> Grievance Mechanism 	<ul style="list-style-type: none"> Daily throughout the duration of the studies 	<ul style="list-style-type: none"> Daily monitoring, OHS reports and work permits. Monthly evaluation Annual inspection 	<ul style="list-style-type: none"> Occupational Health and Safety Law and its related regulations and GIIP, ESS2 and ESS4 	<ul style="list-style-type: none"> Kepez Municipality Contractor Supervision Consultant 	
11	<ul style="list-style-type: none"> Grievance 	<ul style="list-style-type: none"> Number of Grievances 	<ul style="list-style-type: none"> Grievance Center 	<ul style="list-style-type: none"> Grievance records 	<ul style="list-style-type: none"> Daily monitoring Monthly evaluation Annual inspection 	<ul style="list-style-type: none"> All grievances closed-out within the target timeframe GM disclosure to the PAPs, stakeholders GM disclosure at Sub-project 	<ul style="list-style-type: none"> World Bank EHS Guidelines WB ESS2: Labor and Working Conditions WB ESS10 Stakeholder Engagement and Information 	<ul style="list-style-type: none"> Kepez Municipality Supervision Consultant Contractor 	

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
						web site	Disclosure		
12	<ul style="list-style-type: none"> Use of protective equipment , occupational safety training and OHS measures 	<ul style="list-style-type: none"> Number of incidents, accidents and grievances, near misses, number of toolbox talks Corrective actions 	<ul style="list-style-type: none"> Sub-project area, sub-project area access route, energy transmission line route 	<ul style="list-style-type: none"> Document review (e.g., grievance records, incident statistics, incident reports) 	<ul style="list-style-type: none"> Daily monitoring, OHS reports and work permits. Monthly evaluation Annual inspection 	<ul style="list-style-type: none"> Zero work accidents 	<ul style="list-style-type: none"> Occupational Health and Safety Law and its related regulations and GIIP, ESS2 and ESS4 	<ul style="list-style-type: none"> Kepez Municipality Contractor Supervision Consultant 	
	<ul style="list-style-type: none"> Risks related with Gender Based Violence (GBV) Sexual Exploitation Abuse / Sexual Harassment (SEA/SH) 	<ul style="list-style-type: none"> Ethical rules and public communication training Workers code of conduct. Grievance mechanism 	<ul style="list-style-type: none"> Area of Influence Neighborhoods 	<ul style="list-style-type: none"> Grievance records review Code of Conduct Training Plan to include GBV and SEA/SH Visual observations Interviews with Mukhtars of Area of influence 	<ul style="list-style-type: none"> Daily 	<ul style="list-style-type: none"> Number of incidences reported Number of incidences resolved Number of grievances 	<ul style="list-style-type: none"> Good Practices WB ESS 4 	<ul style="list-style-type: none"> Supervision Consultant Contractor Kepez Municipality 	
	<ul style="list-style-type: none"> Cultural Heritage 	<ul style="list-style-type: none"> Chance Finds procedure 	<ul style="list-style-type: none"> Sub-project site 	<ul style="list-style-type: none"> Document review 	<ul style="list-style-type: none"> Once-off 	<ul style="list-style-type: none"> Number of chance finds and records 	<ul style="list-style-type: none"> WB ESS 8 National Legislation Good Practices 	<ul style="list-style-type: none"> Supervision Consultant Contractor Kepez 	

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
								Municipality	

Table 23. Operation Environmental and Social Monitoring Table

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If not included in the Subproject Budget)
1	<ul style="list-style-type: none"> Transport 	<ul style="list-style-type: none"> Transportation Security and Transportation Interruptions 	<ul style="list-style-type: none"> Sub-project site access route 	<ul style="list-style-type: none"> The grievances of the population in the immediate vicinity or the participants in transportation activities , by checking warning and informative signs 	<ul style="list-style-type: none"> Daily 	<ul style="list-style-type: none"> Zero vehicle accidents Minimization and continued improvement in the number of reported violations on speed limit 	<ul style="list-style-type: none"> World Bank Environmental and Social Standard 4 (ESS4) Regulation on the Transport of Hazardous Materials by Road Road Traffic Regulation Regulation on Traffic Signs 	<ul style="list-style-type: none"> Kepez Municipality 	Kepez Municipality

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
2	<ul style="list-style-type: none"> Surface water quality 	<ul style="list-style-type: none"> Fuel, oil, antifreeze, etc. spills 	<ul style="list-style-type: none"> Sub-project area, sub-project area access route, energy transmission line route 	<ul style="list-style-type: none"> Visual monitoring, Grievance Mechanism Records 	<ul style="list-style-type: none"> Daily 	<ul style="list-style-type: none"> Minimization and continued improvement in the number of the reported soil quality related incidents Zero NCRs per year Zero accident per year Zero grievances per year 	<ul style="list-style-type: none"> World Bank General EHS Guidelines WB ESS1: Assessment and Management of Environmental and Social Risks and Impacts Management WB ESS3: Resource Efficiency and Pollution Prevention and Management Environmental Law Regulation on the Protection of Ground Waters against Pollution and Deterioration Regulation on the Control of Pollution Caused by Hazardous Substances in and around Water Environment Regulation on Wastewater Collection and 		

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
							Removal Systems		
3	Waste Management	Inverters , batteries etc. disposal of sourced electronic waste	Sub-project area	Visual monitoring, Waste Records Grievance Mechanism Records	• Daily	• Decrease in the ratio of hazardous waste generated to total waste (by contamination + by generation)	• World Bank General EHS Guidelines: • WB ESS1: Assessment and Management of Environmental and Social Risks and Impacts Management		
4		Hazardous waste	Sub-project area	Visual monitoring, Waste Records Grievance Mechanism Records	• Daily	• Decrease in the ratio of hazardous waste generated to total waste (by contamination + by generation)	• WB ESS3: Resource Efficiency and Pollution Prevention and Management Environmental Law • Regulation on Waste Management		
5		Domestic Waste	Sub-project area	Visual monitoring, Waste Records Grievance Mechanism Records	• Daily	• Minimization of total waste generated • Increase in the ratio of recovered/re used/recycle d waste to total waste generated	• Zero Waste Regulation • Regulation on Packaging Waste Control • Regulation on Waste Oil Management • Regulation on Medical Waste Control		
7		Packaging Waste	Sub-project area	Visual	• Daily	• Minimization of total waste			

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
				monitoring, Waste Records Grievance Mechanism Records		<ul style="list-style-type: none"> generated Increase in the ratio of recovered/re used/recycle d waste to total waste generated 	<ul style="list-style-type: none"> Regulation on Control of Waste Electrical and Electronic Equipment Regulation on Control of Waste Batteries and Accumulators Regulation on Control of End-of-life Tires 		
8	• Community Health and Safety	• Number of recorded safety incidents involving project workers and local people	• Sub-project area, sub-project area access route, energy transmission line route	• Grievance Mechanism	• Daily throughout the duration of the studies	<ul style="list-style-type: none"> Zero incidents per year Zero number of drivers found to be exceeding speed limits or driving unsafely Zero accidental injuries and deaths, Zero traffic-related grievances Zero Number of unauthorized accesses to the sub- 	<ul style="list-style-type: none"> Regulation on Protection of Employees from the Hazards of Explosive Environments Regulation on Health and Safety Regarding Temporary and Time-Limited Works Regulation on Health and Safety Signs Regulation on Management of Dust Regulation on the Registration, Evaluation, 		

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
						project area	Authorization and Restriction of Chemicals <ul style="list-style-type: none"> • Law on Occupational Health and Safety (6331) • Regulation on Personal Protective Equipment • Regulation on Protection of Workers from Risks Created by Noise • Regulation on Risk Assessment for Occupational Health and Safety • Regulation on Sub-contractors • Regulation on Vocational Training of the Employees Working in Dangerous and Highly Dangerous Workplaces • Regulation on the Procedures and Principles of 		

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
							<ul style="list-style-type: none"> Employee Health and Safety Training Regulation on High Current Electrical Facilities Regulation on Manual Handling 		
9	<ul style="list-style-type: none"> Redress of grievance 	<ul style="list-style-type: none"> Grievance Mechanism 	<ul style="list-style-type: none"> Kepez Municipality 	<ul style="list-style-type: none"> "Grievance Forms" to be left around the construction site will be collected by the responsible person and forwarded to Kepez Municipality. It will be monitored by Kepez Municipality through the internet website, telephone and written applications to Kepez Municipality. 	<ul style="list-style-type: none"> Daily through out the duration of the studies 	<ul style="list-style-type: none"> All grievances closed-out within the target timeframe GM disclosure to the PAPs, stakeholders GM disclosure at sub-project web site 	<ul style="list-style-type: none"> WB ESS4: Community Health and Safety Regulation on Emergency Situations in Workplaces Regulation on duties and responsibilities of OHS Specialists Regulation on duties and responsibilities of Occupational Physicians and other medical personnel Regulation on Health and Safety at Construction Works Regulation on Health and Safety Conditions 		

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
				"Grievance Close Out Form" will be kept.			<ul style="list-style-type: none"> Regarding Use of Work Equipment • Regulation on Health and Safety Precautions Regarding Working with Chemicals • Regulation on Protection of Employees from the Hazards of Explosive Environments • Regulation on Health and Safety Regarding Temporary and Time-Limited Works • Regulation on Health and Safety Signs • Regulation on Management of Dust • Regulation on Material Safety Data Sheets on Hazardous Materials and Mixtures • Law on 		

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
							<ul style="list-style-type: none"> Occupational Health and Safety (6331) Regulation on Personal Protective Equipment Regulation on Protection of Workers from Risks Created by Noise Regulation on Risk Assessment for Occupational Health and Safety Regulation on Sub-contractors Regulation on Vocational Training of the Employees Working in Dangerous and Highly Dangerous Workplaces Regulation on the Procedures and Principles of Employee Health and Safety Training Regulation on High 		

Ref.	Subject	Parameter to be Monitored	Monitoring Location	Monitoring Method	Monitoring Frequency	Monitoring/Key Performance Indicators (KPIs)	Reference / Threshold Level (if applicable)	Responsibility for Monitoring	Cost (If included in the Subproject Budget) not in
							Current Electrical Facilities • Regulation on Manual Handling		
10	• Use of protective equipment, occupational safety training and OHS measures	• Worker Safety	• Sub-project parcels, sub-project area access route, energy transmission line route	• Visual monitoring,	• Daily	• Zero work accidents	• World Bank EHS Guidelines: • WB ESS2: Labor and Working Conditions • Regulation on Use of Personal Protective Equipment		

4.5 Management of Change

Sub-borrower shall notify ILBANK of material changes in Subproject (including those that stem from sub-borrower and/or contractor activities) using ILBANK's Change Notification Form template (Annex I). Such changes may include, inter alia, the following:

- Administrative/ organizational structure changes at the decision-making level
- Changes in assigned environmental, social and/or OHS staff
- Legislative changes impacting Subproject implementation (e.g. new permitting processes).
- Design changes (e.g. any changes in the Subproject description, footprint such as new temporary or permanent sites/facilities – on-site or off-site, changes in number of workforce involved, changes in on-site/off-site worker accommodation arrangements).
- Schedule changes.
- Changes related to E&S issues (e.g. new biodiversity features or cultural heritage assets identified, additional resettlement need, etc.)

Contractor or construction supervision consultants changes at any phase of the Sub-project requiring (i) E&S commitments and E&S roles and responsibilities to be clarified with the new contractor or supervision consulting firm, and (ii) contractor E&S training to be reorganized and redelivered to new contractor or supervision consulting firm's staff.

5 CAPACITY DEVELOPMENT AND TRAINING

5.1 Organizational Capacity

The organization structure of the PIU to be established by the Sub-borrower is presented in Figure 13. The PIU will have qualified staff and resources to the satisfaction of ILBANK.

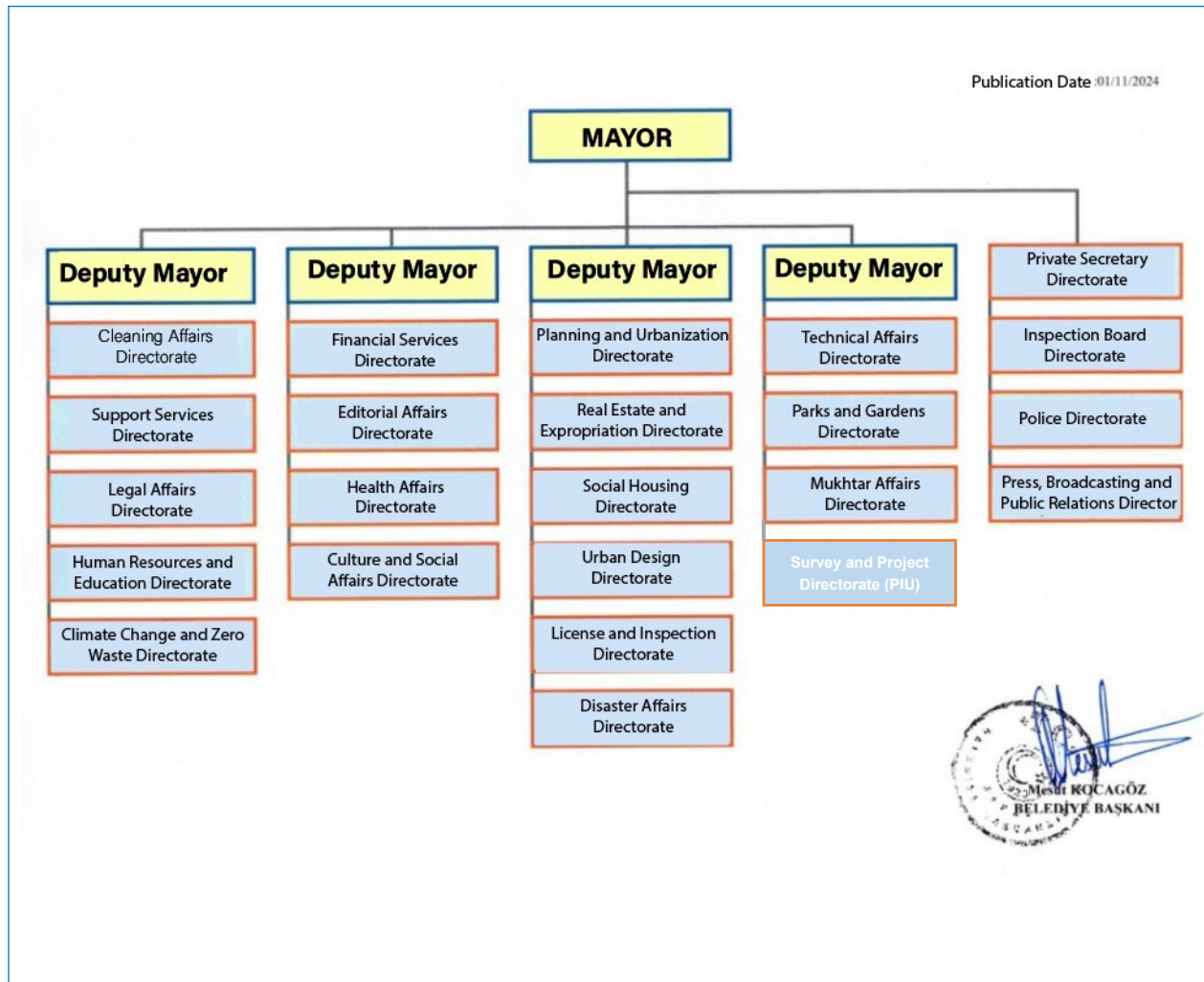


Figure 13. Organization Structure – Project Implementation Unit (PIU)

The Sub-borrower will maintain the PIU by ensuring that there is qualified staff assigned and serving on the duty throughout the sub-financing agreement life cycle.

At minimum, the E&S team at the Sub-borrower PIU will include the following personnel who shall support management and monitoring of Subproject E&S risks and impacts and ensure full compliance with the ESMP and other relevant E&S instruments:

- **Environmental Specialist(s):** to address environmental risks and impacts identified under the Environmental and Social Assessment (ESA) reports, such as Environmental and Social Management Plan (ESMP), etc.
- **Social Expert/ Grievance Mechanism (GM) Focal Point:** to address social risks and impacts under the ESA reports, land acquisition, and labor issues, including stakeholder engagement and grievance redress; and
- **Occupational Health and Safety (OHS) Specialist(s)** to address OHS risks and impacts under the ESA reports.

If the necessary staff is not available within its own organizational structure, the Sub-borrower shall receive support/ consultancy services from outside.

The persons responsible for communication with ILBANK and ensuring that the sub-project studies comply with the relevant requirements of ILBANK's ESMS in line with IFC standards are Kepez Municipality Personnel and are 4 people in total, including 1 environmental expert, 1 OHS expert, 1 social expert, and 1 human resources expert.

5.2 Roles and Responsibilities

The roles and E&S related responsibilities of the Sub-borrower and other key parties are described in Table 24.

Table 24. Roles and E&S related Responsibilities of Key Parties associated with ESMP Implementation

Party	Role	Key Responsibilities
Sub-borrower		
Kepez Municipality	Sub-borrower Management	<ul style="list-style-type: none"> • Hold ultimate responsibility for the E&S performance of the Subproject to the satisfaction of the ILBANK, including the performance of Subproject contractors throughout the sub-financing agreement life cycle. • Establish Project Implementation Unit (PIU) following the execution of sub-financing agreements to carry out operational and administrative tasks to oversee the implementation of the E&S instruments and monitoring progress; allocate resources for the recruitment of in-house environmental, social and OHS staff under the PIU • Ensure that ESMP, SEP and other E&S management plans and procedures required by ILBANK is prepared within the timeframes agreed with ILBANK and allocate adequate financial and human resources – either from the Sub-borrower's own resources or from the Subproject loan and implement. • Cooperate with the ILBANK representatives to discuss and agree on the ESAP and other E&S covenants for incorporation into sub-financing agreements to be executed between the ILBANK and the sub-borrower (with support from RD E&S team as necessary) • Ensure that E&S requirements of ILBANK are incorporated into relevant contractor tender and agreement documents to be prepared in collaboration with the construction supervision consultant • Hold and use the authority and responsibility to stop any Subproject related work activity if it poses an imminent danger to health, safety, or the environment. • Allocate resource to ensure monitoring of Subproject E&S performance and reporting to ILBANK at IFI standards in line with the sub-financing agreement conditions • Facilitate monitoring visits and audits by ILBANK and their consultants • Notify the ILBANK RD – E&S Teams of any significant E&S incident or accident within maximum 24 hours of the accident/incident; contractually require the supervision consultants and/or contractors to promptly report such incident and accidents (timeframe to be defined by ILBANK) (Annex F) • Prepare and submit a detailed E&S Incident Investigation Form, supplemented by an RCA to be conducted pursuant to GIIPs, to ILBANK within 15 days of the accident/incident date for significant accidents or incidents (in line with the template presented in the E&S Supervision, Monitoring and Reporting Procedure). The investigation will be supplemented by a Root Cause Analysis (RCA) (Annex G).
	E&S Team - Environmental staff - Social staff - OHS staff	<ul style="list-style-type: none"> • Participate in the training to be organized by ILBANK as part of ILBANK ESMS Training Procedure implementation • Ensure that satisfactory ESMP, SEP and as required other E&S assessment documentation required by ILBANK is prepared by qualified independent specialists and submitted to ILBANK for appraisal and credit decision-making for High and Substantial risk Subproject, as well as for Moderate risk Subproject where the sub-borrower has limited E&S capabilities, coordinate commissioning independent third-party specialists (such as external E&S consultancy companies, individual consultants) to carry out the E&S assessment and prepare the E&S documentation required for ILBANK's appraisal and credit decision-making processes • Provide ILBANK with relevant adequate information to undertake the E&S due diligence in accordance with the ESMS (e.g. duly completed sub-borrower questionnaire and supporting documentation to be requested by ILBANK in accordance with the E&S Screening and Risk Classification and ESDD procedures)

Party	Role	Key Responsibilities
		<ul style="list-style-type: none"> Support the sub-borrower management as required in the review and evaluation of ESAP and other E&S covenants for incorporation into sub-financing agreements to be executed between the ILBANK and the sub-borrower Ensure compliance of Subproject operations (including contractor activities on site) with national legislation and E&S requirements of the lending IFIs as included in the sub-financing agreements, ESAP and Subproject-specific E&S documentation (such as ESMP, SEP and other E&S management plans and procedures required by ILBANK) Undertake monitoring of Subproject E&S performance and reporting to ILBANK at IFI standards in line with the sub-financing agreement conditions Ensure implementation of corrective actions in case of E&S non-compliances in coordination and agreement with ILBANK DG and RD E&S teams over reasonable timeframes Coordinate the construction supervision consultants, contractors and/or external E&S consultants for collection of the monitoring data and compilation of or providing input to periodic monitoring reports as necessary and appropriate Allow ILBANK representatives (including individual consultants) to access Subproject facilities and records.
Construction Supervision Consultants (“Müşavir”)	Management and E&S staff	<p>Carry out the following tasks on behalf of the sub-borrowers:</p> <ul style="list-style-type: none"> Participate in the training sessions to be organized by sub-borrowers in line with the requirements of ILBANK ESMS Training Procedure Supervise the construction works of contractors on-site, including implementation of Subproject-specific E&S requirements (requirements stemming from ESMP, SEP and other E&S management plans and procedures required by ILBANK as applicable) by contractors on a daily basis Ensure sufficient E&S capacity for implementation of E&S requirements as set out in the sub-financing agreements between the sub-borrower and ILBANK Support the sub-borrowers for the supervision and review of E&S management documentation prepared by construction contractors and submit them to sub-borrowers upon finalization Review monthly self-monitoring reports prepared by the construction contractors for early identification of E&S issues and/or non-compliances and submit them to municipalities/municipal utilities upon finalization Identify E&S non-compliances on site and enforce construction contractors to undertake corrective actions within defined and agreed timeframes Support the sub-borrowers (as requested) in the preparation of periodic E&S monitoring reports to be submitted to ILBANK in line with the ILBANK E&S Supervision, Monitoring and Reporting Procedure Notify the sub-borrower of any significant E&S incident or accident that have taken place in Subproject related operations within 24 hours
Construction Contractor	Management and E&S staff	<ul style="list-style-type: none"> Ensure sufficient E&S capacity for implementation of E&S requirements as set out in the construction contracts Participate in the training sessions to be organized by sub-borrowers in line with the requirements of ILBANK ESMS Training Procedure Prepare Subproject-specific E&S management plans and procedures prior to start of construction works as required by the construction contracts Comply with the requirements of national legislation and implement the E&S requirements as set out in the sub-financing agreements (executed between ILBANK and the sub-borrowers) and construction contracts Submit periodic (in frequencies to be set by ESAP) E&S self-monitoring reports to the municipalities/municipal utilities through construction supervision consultants (“müşavir”) – in line with the format provided by ILBANK. Fill in monthly occupational health and safety (OHS) forms – reviewed by construction supervision consultants.

Party	Role	Key Responsibilities
		<ul style="list-style-type: none"> • Implement corrective actions in case of E&S non-compliances under the supervision of sub-borrower's construction supervision consultant • Promptly notify the sub-borrower of any significant E&S incident or accident that have taken place in Subproject related operations (timeframe to be defined by ILBANK no later than 24 hours)

5.3 Capacity Building and Training

Sub-borrower staff will deliver E&S training to contractors. Training contents are summarized in Table 25. For relevant aspects such as OHS, mitigation of environmental and social impacts, etc., the E&S training programs will be integrated with the technical/ operational training programs (including any practical training where necessary) to be delivered by the contractors to contractor and sub-contractor workers on the operating principles of the power plant, operations involving high voltage equipment, field safety, field maintenance-repair, material replacement, fault detection, and intervention during and after installation and incorporated to the operation manuals to be prepared by the Kepez Municipality.

Sub-borrower will ensure that E&S training programs are expanded to subcontractors by contractors in case their involvement in Subproject implementation.

For relevant aspects such as OHS, mitigation of environmental impacts, etc., the E&S training programs will be integrated with the technical/ operational training programs (including any practical training where necessary) to be delivered by the contractors to contractor and sub-contractor workers on the operating principles of the power plant, operations involving high voltage equipment, field safety, field maintenance-repair, material replacement, fault detection, and intervention during and after installation and incorporated to the operation manuals to be prepared by the Kepez Municipality.

Table 25. Training Components for Training of Contractor Staff

Module	Training Name	Training Duration	Key Training Content
Module 1	ILBANK E&S Requirements	1 hour	<ul style="list-style-type: none"> - Overview of ILBANK E&S requirements: <ul style="list-style-type: none"> o ILBANK E&S Policy (including but not limited to the guiding principles on human rights, labor rights and working conditions, community health, safety and well-being, cultural heritage, gender equality, etc.) o External Communications (including stakeholder engagement, grievance management, etc.) o Monitoring, Review and Reporting o Labor Management, Contractor Management - ILBANK Code of Conduct
Module 2	Subproject-level E&S Requirements for contractors as per sub-financing agreement conditions	3 hours	<ul style="list-style-type: none"> - Subproject specific requirements: <ul style="list-style-type: none"> o E&S covenants included in sub-loan agreements o Subproject ESAP requirements o Subproject-level E&S assessment and management documentation (such as ESMP, SEP and other E&S management plans and procedures as applicable); o Emergency Preparedness and Response Plan including a training program for emergency responders including drills at regular intervals; o Specific training (such as driver training in case of involvement of vehicles or fleets of vehicles in Subproject-operations, training of security forces in the use of force (and where applicable, firearms), and appropriate conduct toward workers and affected communities, etc.). - Preparation and implementation of Labor Management Plans.

6 IMPLEMENTATION SCHEDULE AND COST ESTIMATES

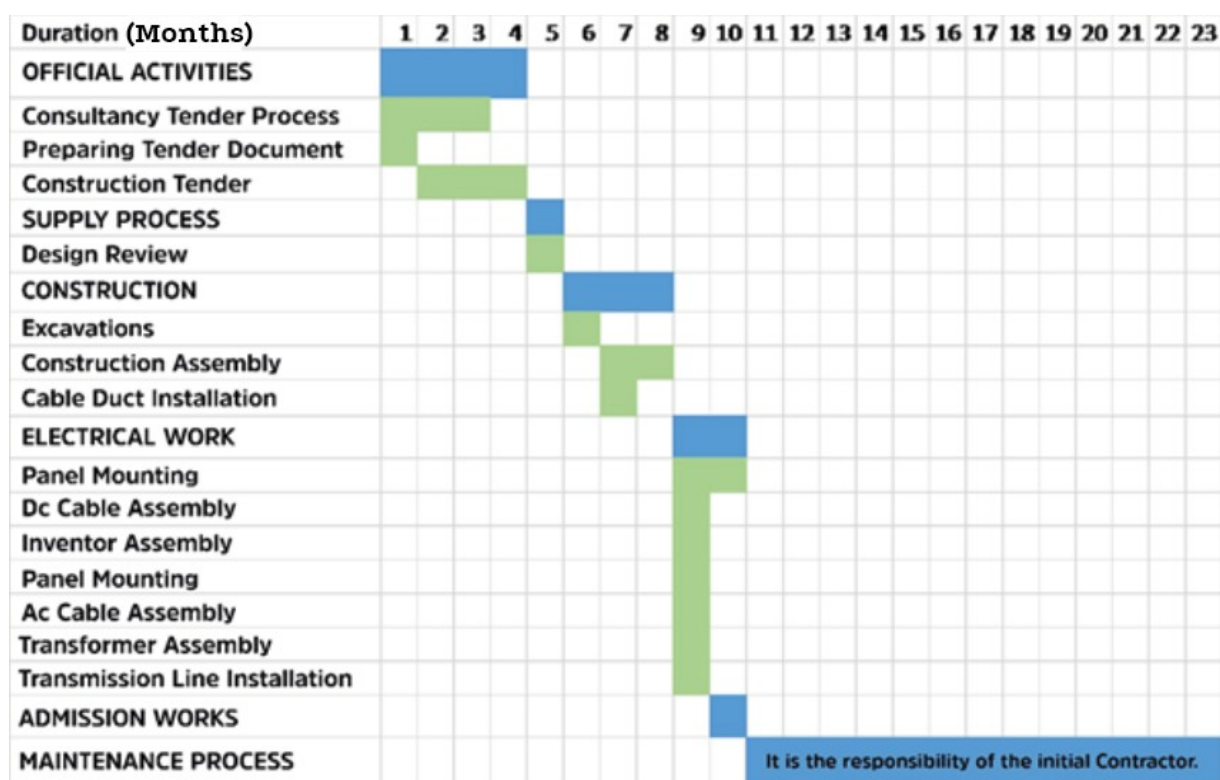
6.1 Implementation Schedule

Duration of the construction and operation phase activities are listed in Table 26.

Table 26. Duration of Activities

Phase	Remarks/ Notes
Construction Duration	6 months
Defect Liability Period	1 year
Operation Duration	25 years

Table 27. Implementation Schedule



6.2 Cost Estimates

All costs for implementing the ESMP are included in the Project budget (see Table 28).

- Allocating resources for project management activities related to overseeing the implementation of the ESMP and coordinating with contractors and stakeholders; hiring Environmental and Social Experts to provide supervision and monitoring.
- Training costs for construction workers and project staff on environmental and social best practices and protocols.

- Investment in health and safety training and equipment for employees to prevent accidents and mitigate occupational health risks.
- Periodic Third-Party Audits and Reviews by independent third parties to assess the effectiveness of the ESMP and identify areas for improvement.
- Renewal of infrastructure necessary to mitigate environmental and social impacts, such as roads or wildlife barriers; setting aside funds to address unforeseen environmental or social issues that may arise during construction such restoration of any damage on roads or public amenities.
- Expenses related to stakeholder engagement and corporate social responsibility programs.
- Budget for investigation of grievances for nuisance from potential noise and dust emissions and taking of additional measures as necessary.
- Budget for management of accidental spills and leakages of oils and chemicals in order to protect soil and groundwater.
- Budget for regular maintenance of the waste storage area, cesspit, fencing.

Table 28. ESMP Cost Breakdown for Implementation and Monitoring

Budget Item	Estimated Amount
Construction Phase	
Environmental Expert	Key Personnel (*)
Social Expert	Key Personnel (*)
OHS Expert	Key Personnel (*)
Monitoring (Measurements and laboratory analyses)	Belongs to the Contractor's Budget (**)
Finance Expert	No Additional Charges (***)
Technical Expert	No Additional Charges(***)
Operation Phase	
Monitoring (Measurements and laboratory analyses)	Included in the operation budget of Kepez Municipality (**)
Finance Expert	No Additional Charges (***)
Technical Expert	No Additional Charges (***)

(*) The recruitment of experts is financed within the budget for audit consultancy services. The relevant cost estimates are taken into account at the first stage of consultant selection. Contractors are obliged to recruit environmental, social and OHS experts for the implementation and monitoring of the ESMP within the scope and price of their bids. The monthly cost estimate per expert at this stage is €1,000/month.

(**) Laboratory and testing obligations and the relevant reporting responsibility will be included in the employment contract during the construction period and the defects liability period. This responsibility will then be transferred to Kepez Municipality for the operation phase.

(***) Since Kepez Municipality's permanent staff will be assigned to these positions, no additional costs will be incurred in the sub-project budget

List of Annexes

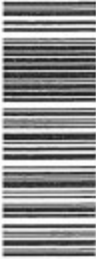



Annex A	List of the Individuals/Organizations that Prepared or Contributed to the ESMP
Annex B	Existing Permitting Documentation
Annex C	Title Deeds
Annex D	Site Photographs
Annex E	Baseline Measurements
Annex F	E&S Incident Notification Form Template
Annex G	E&S Incident Investigation Form Template
Annex H	Chance Find Notification Form
Annex I	Chance Notification Form
Annex J	Institutional and Legal Framework in Türkiye
Annex K	Consultation Meeting Images
Annex M	Türkiye Earthquake Risk Map of the Sub-project Area and Sub-project Area Tectonic Map
Annex N	Korkuteli District Insolation Map and Korkuteli District Tables of climate
Annex O	Environmental Noise Level Limit Values and Noise levels by distance
Annex P	The Closest Water Resource
Annex Q	Images of the House in the Parcel
Annex R	List of Owners
Annex S	Stakeholder Consultation Meeting Minutes (1)
Annex T	Stakeholder Consultation Meeting Minutes (2)

Annex A – List of the Individuals/Organizations that Prepared or Contributed to the ESMP

Name of the Individual/ Organization	Company/ Institution	Profession/ Expertise
Sevinç Yeter	Kepez Municipality	Environmental Expert
Yavuz Ekiz	Kepez Municipality	OHS Expert
Selda Sarı	Kepez Municipality	Social Expert
Halil Doğru	Kepez Municipality	Human Resource Expert

Annex B – Existing Permitting Documentation

Decision that EIA is not required

		
ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI Çevresel Etki Değerlendirmesi, İzin ve Denetim Genel Müdürlüğü		
T.C.		
ANTALYA VALİLİĞİ		
ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ İL MÜDÜRLÜĞÜ		
Karar Tarihi : 26-04-2022 Karar No : 23822202 220-02 B-2022354		
ÇEVRESEL ETKİ DEĞERLENDİRME BELGESİ		
25.11.2014 tarih ve 29186 sayılı Resmî Gazete'de yayımlanarak yürürlüğe giren Çevresel Etki Değerlendirmesi Yönetmeliği'nin Ek-II listesinde yer alan ' GÜNEŞ ENERJİSİ SANTRALİ (GES) PROJESİ ' projesi ile ilgili olarak inceleme-değerlendirme yapılmış ve Proje Tanıtım Dosyasında çevresel etkilere karşı alınması öngörülen önlemler yeterli görülmüştür. Ayrıca ÇED Raporu hazırlanmasına gerek bulunmadığı tespit edilmiş olup, söz konusu projeye ÇED Yönetmeliğinin 17. Maddesi gereğince Valiliğimizce " Çevresel Etki Değerlendirmesi Gerekli Değildir " kararı verilmiştir.		
 Tevfik ALTINAY Vali a. İl Müdürü		
Proje Sahibi : KEPEZ BELEDİYE BAŞKANLIĞI Proje Yeri : Antalya İli, Korkuteli İlçesi, Varsak Yaylası Mahallesi 0 Ada 639 Parsel Kapasite : 5,00 MWe kurulu güç, 7,9415 hektar alan		

Expropriation Request

Evrak Tarih ve Sayısı: 26/10/2023-309485

İÇ KULLANIM

**AKDENİZ
ELEKTRİK
DAĞITIM**

"enerjimizle yanınızdayız"



Tesis Müdürlüğü
İnşaat ve Kamulaştırma Yöneticiliği

Sayı : --

Konu: Kamulaştırma Talebi Hk.

**T.C.
KEPEZ BELEDİYE BAŞKANLIĞI**
Emlak ve İstimlak Müdürlüğü

İlgi: Diğer

İlgi yazınıza konu Antalya İli Korkuteli İlçesi Varsak Yaylası 159 ada 124 nolu parsel mülkiyeti Kepez Belediyesine ait bir parsel olup, parselde GES projesi yapılmaktadır.

Söz konusu proje Elektrik Piyasası Bağlantı ve Sistem Kullanım Yönetmeliğinin 21. maddesi kapsamında Kurumumuzca "ENH-DM-Yeraltı (Kepez Belediyesi GES) Tesis İş'i" projesi Trafo-GES arası bağlantı hattının ve direklerin kamulaştırma işlemleri Şirketimiz tarafından yürütülmekte olup dosya kontrolleri yapılmak üzere TEDAŞ 2.Bölge Müdürlüğüne gönderilmiştir.

Gereğini arz ederiz.

E-İmzalıdır
Serkan KOMUT
Tesis Müdürü

E-İmzalıdır
Serkan Kükrek
Yatırım Direktörü

İÇ KULLANIM

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Evrak Pin Kodu : 81092

Göksu Mah. Serik Cad. No:15 Kepez/ ANTALYA
Kurumlar V.D.:0210470544

Web sitesi: www.akdenizedas.com.tr

Ayrıntılı bilgi için irtibat :Fatih ŞENER
Ayrıntılı bilgi için e-
posta:fatih.sener@akdenizedas.com.tr
Telefon: (0.242) 320 36 00 Fax: (0.242) 339 55 82

Bu belge, 5070 sayılı Elektronik İmza Kanununa göre Güvenli Elektronik İmza ile imzalanmıştır.
Evrak sorgulaması <https://belgedogrulama.akdenizedas.com.tr/enVision.Sorgula.dagitim/belgedogrulama.aspx?eD=BSP6V3JNBV&eS=309485> adresinden yapılır

Annex C – Title Deed



TÜRKİYE CUMHURİYETİ

TAPU SENEDİ

TAŞINMAZ BİLGİLERİ	İl:	ANTALYA		
	İlçe:	KORKUTELİ		
	Mahalle/Köy:	VARSAK YAYLASI		
	Mevki:	ESKİDAMLAR		
	Ada:	159	Parsel:	161
	Yüz Ölçümü:	78.697,56 m2	Cilt/Sayfa No:	19 - 1807
	Nitehiği:	arsa		

MALİK BİLGİLERİ	Adı Soyadı/Baba Adı: KEPEL GÜLETTYEŞİ (ANTALYA)	Hissesi: Tam	Hisseye düşen m²: 78.697,56
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TESCİLE İLİŞKİN BİLGİLER	Taşınmaz No: 131723950	Edinme Nedeni: İfraz İşlemi (TSM)	İşlem Bedeli:
	Konum Bilgisi: 	Tescil Tarihi/Yevmiye No: 26/01/2024 - 4772	Siciline Uygun Veri Tarihi: 26/01/2024 Fatma ARINOĞAN SERCE Yetkil. Müdür Yardımcısı

Mülkiyetin dışındaki ayni ve şahsi haklar ile şerh ve belirtmeler için tapu siciline müracaat edilmesi gerekmektedir.

Annex D – Site Photographs

Photo No: 01	
Date: 06/11/2024	
Location: 159/161	
Details/Notes:	

Annex E – Baseline Measurements

No measurements have been made yet. Will be updated when they are made.

Annex F – E&S Incident Notification Form Template

1) Incident Details		
Date of Incident: [Please indicate]	Time of Incident: [Please indicate]	
Location of the Incident:	[Please indicate]	
Full Name of Sub-borrower:	[Please indicate]	
Date Reported to ILBANK: [Please indicate]	Reported to ILBANK by: [Please indicate]	Notification Type: [Please indicate; e-mail/phone call/media notice/other]
Date Reported to WB: [Please indicate]	Reported to WB by: [Please indicate]	Notification Type: [Please indicate; e-mail/phone call/media notice/other]
Full Name of the Contractor of the Subproject:	[Please indicate]	
Full Name of the Sub-contractor involved in the incident:	[Please indicate]	
2) Type of incident (please check all that apply) ⁴		
<input type="checkbox"/> Fatality <input type="checkbox"/> Lost time injury <input type="checkbox"/> Displacement without due process <input type="checkbox"/> Child labor <input type="checkbox"/> Forced labor <input type="checkbox"/> Disease outbreaks	<input type="checkbox"/> Acts of violence/protest <input type="checkbox"/> Unexpected impacts on heritage resources <input type="checkbox"/> Unexpected impacts on biodiversity resources <input type="checkbox"/> Environmental pollution incident <input type="checkbox"/> Dam failure <input type="checkbox"/> Other	
3) Description/Narrative of Incident		
<p><i>For example:</i></p> <p>I. What is the incident? [Please briefly describe]</p> <p>II. What were the conditions or circumstances under which the incident occurred (if known)? [Please briefly describe]</p> <p>III. Are the basic facts of the incident clear and uncontested, or are there conflicting versions? What are those versions? [Please briefly describe]</p> <p>IV. Is the incident still ongoing or is it contained? [Please briefly describe]</p> <p>V. Have any relevant authorities been informed? [Please briefly describe]</p>		

⁴ See Appendix 2 for definitions.

4) Actions taken to contain the incident			
Short Description of Action	Responsible Party	Expected Date	Status

For incidents involving a Contractor:

Name of Contractor:

Have the works been suspended? Yes ☐ No ☐

Note: Please attach a copy of the instruction suspending the works

5) What support has been provided to affected people
<i>[Please briefly describe]</i>

APPENDICES
Appendix 1: Supporting documents <p>[Note: Please mark the relevant documents available at this stage and submit them attached to the report]:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Copy of the social security registration records of the victims and involved persons <input type="checkbox"/> Copy of the instruction suspending the works <input type="checkbox"/> Statement of victims <input type="checkbox"/> Statement of witnesses <input type="checkbox"/> Copies of notifications done to the relevant authorities <input type="checkbox"/> Copies of legal investigation reports of relevant authorities <input type="checkbox"/> Copies of E&S training records of the affected and involved persons <input type="checkbox"/> Copies of OHS training records of the affected and involved persons <input type="checkbox"/> Photographs related to the incident <input type="checkbox"/> Others

Appendix 2: Incident Types

The following are incident types to be reported using the environmental and social (E&S) incident response process:

Fatality: Death of a person(s) that occurs within one year of an accident/incident, including from occupational disease/illness (e.g., from exposure to chemicals/toxins).

Lost Time Injury: Injury or occupational disease/illness (e.g., from exposure to chemicals/toxins) that results in a worker requiring 3 or more days off work, or an injury or release of substance (e.g., chemicals/toxins) that results in a member of the community needing medical treatment.

Acts of Violence/Protest: Any intentional use of physical force, threatened or actual, against oneself, another person, or against a group or community, that either results in or has a high likelihood of resulting in injury, death, psychological harm, deprivation to workers or project beneficiaries, or negatively affects the safe operation of a project worksite.

Disease Outbreaks: The occurrence of a disease in excess of normal expectancy of number of cases. Disease may be communicable or may be the result of unknown etiology.

Displacement Without Due Process: The permanent or temporary displacement against the will of individuals, families, and/or communities from the homes and/or land which they occupy without the provision of, and access to, appropriate forms of legal and other protection and/or in a manner that does not comply with an approved resettlement action plan.

Child Labor: An incident of child labor occurs: (i) when a child under the age of 14 (or a higher age for employment specified by national law) is employed or engaged in connection with a project, and/or (ii) when a child over the minimum age specified in (i) and under the age of 18 is employed or engaged in connection with a project in a manner that is likely to be hazardous or interfere with the child's education or be harmful to the child's health or physical, mental, spiritual, moral or social development.

Forced Labor: An incident of forced labor occurs when any work or service not voluntarily performed is exacted from an individual under threat of force or penalty in connection with a project, including any kind of involuntary or compulsory labor, such as indentured labor, bonded labor, or similar labor-contracting arrangements. This also includes incidents when trafficked persons are employed in connection with a project.

Unexpected Impacts on heritage resources: An impact that occurs to a legally protected and/or internationally recognized area of cultural heritage or archaeological value, including world heritage sites or nationally protected areas not foreseen or predicted as part of project design or the environmental or social assessment.

Unexpected impacts on biodiversity resources: An impact that occurs to a legally protected and/or internationally recognized area of high biodiversity value, to a Critical Habitat, or to a Critically Endangered or Endangered species (as listed in IUCN Red List of threatened species or equivalent national approaches) that was not foreseen or predicted as part of the project design or the environmental and social assessment. This includes poaching or trafficking of Critically Endangered or Endangered species.

Environmental pollution incident: Exceedances of emission standards to land, water, or air (e.g., from chemicals/toxins) that have persisted for more than 24 hours or have resulted in harm to the environment.

Dam failure: A sudden, rapid, and uncontrolled release of impounded water or material through overtopping or breakthrough of dam structures.

Other: Any other incident or accident that may have a significant adverse effect on the environment, the affected communities, the public, or the workers, irrespective of whether harm had occurred on that occasion. Any repeated non-compliance or recurrent minor incidents which suggest systematic failures that the task team deems needing the attention of Bank management.

Annex G – E&S Incident Investigation Form Template

1) Investigation Findings						
<p><i>For example:</i></p> <ul style="list-style-type: none"> I. <i>where and when the incident took place,</i> II. <i>who was involved, and how many people/households were affected,</i> III. <i>what happened and what conditions and actions influenced the incident,</i> IV. <i>what were the expected working procedures and were they followed,</i> V. <i>did the organization or arrangement of the work influence the incident,</i> VI. <i>were there adequate training/competent persons for the job, and was necessary and suitable equipment available,</i> VII. <i>what were the underlying causes; where there any absent risk control measures or any system failures.</i> 						
2) Corrective Actions from the investigation to be implemented (to be fully described in Corrective Action Plan)						
Action	Responsible Party			Expected Date		
3a) Fatality/Lost Time Injury Information						
Fatality <input type="checkbox"/>				Lost time injury <input type="checkbox"/>		
<p>Immediate cause of fatality/injury for worker or member of the public (please check all that apply) ⁵:</p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Caught in or between objects <input type="checkbox"/> Struck by falling objects <input type="checkbox"/> Stepping on, striking against, or struck by objects <input type="checkbox"/> Drowning <input type="checkbox"/> Chemical, biochemical, material exposure <input type="checkbox"/> Falls, trips, slips <input type="checkbox"/> Fire & explosion <input type="checkbox"/> Electrocution <input type="checkbox"/> Homicide </div> <div style="width: 50%;"> <input type="checkbox"/> Medical Issue <input type="checkbox"/> Suicide <input type="checkbox"/> Project Vehicle Work Travel <input type="checkbox"/> Non-project Vehicle Work Travel <input type="checkbox"/> Project Vehicle Commuting <input type="checkbox"/> Non-project Vehicle Commuting <input type="checkbox"/> Vehicle Traffic Accident (Members of Public Only) <input type="checkbox"/> Other </div> </div>						
Name	Age/ Date of Birth	Nationality	Gender	Date of Fatality/ Injury	Cause of Fatality/ Injury	Affected Party (Employee/ Public)
			<input type="checkbox"/> Female <input type="checkbox"/> Male			<input type="checkbox"/> Sub-borrower employee <input type="checkbox"/> Contractor employee <input type="checkbox"/> Sub-contractor employee <input type="checkbox"/> Public
3b) Financial Support/Compensation Types (to be fully described in Corrective Action Plan template –						

⁵ See Appendix 1 for definitions

template is given in Appendix 3)			
<input type="checkbox"/> No Compensation Required <input type="checkbox"/> Workman's Compensation/National Insurance <input type="checkbox"/> Contractor Direct		<input type="checkbox"/> Contractor Insurance <input type="checkbox"/> Other <input type="checkbox"/> Court Determined Judicial Process	
Name	Compensation Type	Compensation Amount (TRY)	Responsible Party

4) Supplementary Narrative

Appendix 1: Definition of fatality/injury immediate causes

1. Caught in or between objects: caught in an object; caught between a stationary object and moving object; caught between moving objects (except flying or falling objects).

2. Struck by falling objects: slides and cave-ins (earth, rocks, stones, snow, etc.); collapse (buildings, walls, scaffolds, ladders, etc.); struck by falling objects during handling; struck by falling objects.

3. Stepping on, striking against, or struck by objects: stepping on objects; striking against stationary objects (except impacts due to a previous fall); Striking against moving objects; Struck by moving objects (including flying fragments and particles) excluding falling objects.

4. Drowning: respiratory impairment from submersion/emersion in liquid.

5. Chemical, biochemical, material exposure: exposure to or contact with harmful substances or radiations.

6. Falls, trips, slips: falls of persons from heights (e.g., trees, buildings, scaffolds, ladders, etc.) and into depths (e.g., wells, ditches, excavations, holes, etc.) or falls of persons on the same level.

7. Fire & explosion: exposure to or contact with fires or explosions.

8. Electrocution: exposure to or contact with electric current.

9. Homicide: a killing of one human being by another.

10. Medical Issue: a bodily disorder or chronic disease.

11. Suicide: the act or an instance of taking, or attempting to take, one's own life voluntarily and intentionally.

12. Others: any other cause that resulted in a fatality or injury to workers or members of the public.

Vehicle Traffic

13. Project Vehicle Work Travel: traffic accidents in which project workers, using project vehicles, are involved during working hours and which occur in the course of paid work.

14. Non-project Vehicle Work Travel: traffic accidents in which project workers, using non-project vehicles, are involved during working hours and which occur in the course of paid work.

15. Project Vehicle Commuting: traffic accidents in which project workers, using project vehicles, are involved while travelling to (i) the worker's principal or secondary residence; (ii) the place where the worker usually takes his or her meals; or (iii) the place where he or she usually receives his or her remuneration.

16. Non-project Vehicle Commuting: traffic accidents in which project workers, using non-project vehicles, are involved while travelling to (i) the worker's principal or secondary residence; (ii) the place where the worker usually takes his or her meals; or (iii) the place where he or she usually receives his or her remuneration.

17. Vehicle Traffic Accident (Members of Public Only): traffic accidents in which non-project workers/members of the public are involved in an accident while travelling for any purpose.

Appendix 2: Supporting documents

[Note: Please mark the relevant documents available and submit them attached to the report]:

- ☐ Copy of the social security registration records of the victims and involved persons
- ☐ Copy of the instruction suspending the works
- ☐ Statement of victims
- ☐ Statement of witnesses
- ☐ Copies of notifications done to the relevant authorities
- ☐ Copies of legal investigation reports of relevant authorities
- ☐ Copies of E&S training records of the affected and involved persons
- ☐ Copies of OHS training records of the affected and involved persons (such as basic OHS training, induction training, visitors training, job-specific training, refreshment training, etc.)
- ☐ Photographs related to the incident
- ☐ Health examination records of the affected and involved employees
- ☐ Copies of Personal Protective Equipment delivery forms (signed copies)
- ☐ Root Cause Analysis completed for the incident
- ☐ Information/documentation related to any judicial process
- ☐ Others

Appendix 3: Corrective Action Plan template

Action No:	Brief Description of E&S non-compliance	Corrective Action	Financial and Human Resources Required	Responsible Party	Due Date for Completion of Corrective Action	Indicators for Successful Completion of Corrective Action	Status of Corrective Action

Annex H – Chance Find Procedure

PART A				
BÖLÜM A				
Subproject Location <i>Altproje Sahası</i>	District (<i>İlçe</i>): Village (<i>Köy</i>):	Date <i>Tarih</i>	Form No	Project Information <i>Proje Bilgisi</i>
Name of person reporting chance find: <i>Rastlantısal buluntuyu rapor eden kişinin ismi</i>				
Name of contractor employee contacted: <i>İletişime geçilen yüklenici çalışanın adı:</i>				
Was work stopped in the immediate vicinity of chance find? <i>Rastlantısal buluntunun tam çevresinde iş durduruldu mu?</i>		<input type="checkbox"/> Yes <input type="checkbox"/> Evet	<input type="checkbox"/> No <input type="checkbox"/> Hayır	
Was a buffer zone created to protect chance find? <i>Rastlantısal buluntuyu korumak için tampon bölge oluşturuldu mu?</i>		<input type="checkbox"/> Yes <input type="checkbox"/> Evet	<input type="checkbox"/> No <input type="checkbox"/> Hayır	
NOTIFICATION				
BİLDİRİM				
Site manager contacted. <i>Saha müdürü ile irtibata geçildi.</i>		<input type="checkbox"/> Yes <input type="checkbox"/> Evet	<input type="checkbox"/> No <input type="checkbox"/> Hayır	
The Subproject E&S manager contacted. <i>Altproje Çevre&Sosyal Müdürü ile irtibata geçildi.</i>		<input type="checkbox"/> Yes <input type="checkbox"/> Evet	<input type="checkbox"/> No <input type="checkbox"/> Hayır	
CHANCE FIND DETAILS				
ŞANS BULGU AYRINTILARI				
GPS coordinates <i>GPS koordinatları</i>		Photo record <i>Fotoğraf Kaydı</i>	<input type="checkbox"/> Yes <input type="checkbox"/> Evet	<input type="checkbox"/> No <input type="checkbox"/> Hayır

	<p>(HD quality – no cell phone photos) (HD kalitesinde-cep telefonu fotoğrafı değil)</p> <p>If not, explain why: Değil ise nedenini açıklayınız.</p> <p>Other records <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Specify (drawings, HD quality videos, etc.)</p> <p>Diğer kayıtlar <input type="checkbox"/> Evet <input type="checkbox"/> Hayır</p> <p>Belirtin (çizimler, HD kaliteli videolar, vb.)</p>
<p>Description of chance find: Rastlantısal Buluntunun tanımı:</p>	
<p>Description of site and vegetation: (e.g. surface sediment type, ground surface visibility, distance to closest watercourse, etc.) Sahanın / bulgunun ve saha/bulgunun diğer özelliklerinin tanımı: (örn. Yüzey sediman türü, yüzey zemin görünürlüğü, en yakın su yoluna olan mesafe, vb.)</p>	

<p>PART B BÖLÜM B</p>		
<p>NOTIFICATION OF MUSEUM DIRECTORATE ARCHAEOLOGIST MÜZE MÜDÜRLÜĞÜ ARKEOLOĞUNA BİLDİRİ</p>		
<p>The Project Environment Representative contacted museum directorate archaeologist. Proje çevre sorumlusu,, müze müdürlüğü arkeoloğu ile irtibata geçti.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p><input type="checkbox"/> No</p> <p><input type="checkbox"/> No</p>

Date of notification: <i>Bildirim tarihi:</i>		
Name of museum directorate archaeologist: Müze müdürlüğü arkeoloğunun adı:		
Contact number of museum directorate archaeologist: Müze müdürlüğü arkeoloğunun iletişim numarası:		
DECISION OF MUSEUM DIRECTORATE ARCHAEOLOGIST MÜZE MÜDÜRLÜĞÜ ARKELOĞUNUN KARARI		
Date of site visit: <i>Saha ziyaret tarihi:</i>		
Site of no significance - Construction to proceed with no further investigation – End of chance find. <i>Önemsiz Saha – Bulgu - daha fazla araştırma yapılmadan inşaat devam edilebilir – Rastlantısal buluntu prosedürün sonu.</i> Date of notice to resume work: <i>İşe devam etme tarihinin bildirisi:</i>	<input type="checkbox"/> Site of significance - Further investigation required <input type="checkbox"/> <i>Önemli Saha – Bulgu - Ek araştırma gerekmektedir</i> Fill out Part C. <i>Lütfen Bölüm C'yi doldurun.</i>	
Name of museum directorate archaeologist: <i>Müze müdürlüğü arkeoloğunun ismi:</i> Contact information: <i>İletişim numarası:</i>		
Site manager and E&S manager contacted <i>Saha Müdürü ve Ç&S müdürü ile irtibata geçildi</i>	<input type="checkbox"/> Yes <input type="checkbox"/> <i>Evet</i>	<input type="checkbox"/> No <input type="checkbox"/> <i>Hayır</i>

PART C**BÖLÜM C****FURTHER FIELD INVESTIGATION****EK SAHA ARAŞTIRMASI**

<input type="checkbox"/> Site of no significance <input type="checkbox"/> <i>Az önem taşıyan saha/bulgu</i>	<input type="checkbox"/> Site of minor significance <input type="checkbox"/> <i>Orta derecede önem taşıyan saha/bulgu</i>	<input type="checkbox"/> Site of major significance <input type="checkbox"/> <i>Çok önemli saha/bulgu</i>
Describe additional work to be conducted: <i>Yapılması gereken ek işlerin tanımı:</i>		
Date started: <i>Başlangıç Tarihi:</i>	Date completed: <i>Bitiş Tarihi:</i>	
Date of notice to resume work: <i>İşe geri dönme tarihi bildirisi:</i>		
Name of museum directorate archaeologist: <i>Müze müdürlüğü arkeoloğunun ismi:</i>		
Contact information: <i>İletişim numarası</i>		
Construction manager contacted <i>İnşaat müdürü ile irtibata geçildi</i>	<input type="checkbox"/> Yes <input type="checkbox"/> <i>Evet</i>	<input type="checkbox"/> No <input type="checkbox"/> <i>Hayır</i>

CHANCE FINDING RECORD

Reporting Period

Total Incidental Findings										
The Current Situation						This Reporting Period				
IDENTITY (*)	DATE OF THE CHANCE FINDING	LOCATION	SUMMARY OF FINDINGS	NAME OF REPORTED INSTITUTION	DATE PART A WAS COMPLETED	COMPLETION DATE OF PART B	DATE PART C WAS COMPLETED	ACTION TAKEN	OPEN OR CLOSED STATUS	NOTES

Non-Significant Area	Minor Area	Area of Great Importance
<ul style="list-style-type: none"> The Environmental Engineer will notify their manager, The Environmental Engineer will record this decision in Section C of the Chance Find Form within 24 hours, The Environmental Engineer will keep a copy of the Chance Find Form as a record, No further action will be required, This step completes the chance find procedure, Construction activities may continue. 	<ul style="list-style-type: none"> A rescue excavation will be completed The Museum Directorate will provide instructions and/or supervision for the rescue archaeological excavation to the Project Environmental Engineer, The Environmental Engineer will inform their own managers, Under the guidance of the Museum archaeologist (following instructions from other authorities, Antalya Regional Board, etc.), the Project will provide a team of qualified archaeologists to conduct the rescue excavation, The Environmental Engineer will submit a report to the Museum Directorate, The Cultural Heritage Protection Regional Board Directorate will officially confirm that the rescue operation is complete and the Environmental Engineer will inform the construction manager that no further action is required, The Environmental Engineer will inform other managers, The Environmental Engineer will record the decision in Section C of the Chance Finding Form within 24 hours, 	<p>Excavation works will be completed,</p> <ul style="list-style-type: none"> The area will be handled in accordance with the "Law on the Protection of Cultural and Natural Assets (2863)", The Museum Directorate will provide instructions and/or supervision for the salvage archaeological excavation to the Environmental Engineer, and the Project Environmental Engineer will inform the Construction Manager, When the excavation is completed, the Project Representative will submit a report to the Quality Assurance Manager, The Project Environmental Engineer will submit a report to the Museum Directorate, The Cultural Assets Protection Regional Board Directorate will officially confirm that the recovery is complete and inform the Environmental Engineer, The site will be officially registered and protected according to Turkish regulations,

	<ul style="list-style-type: none"> • The Project Environmental Engineer will keep a copy of the Chance Finding form as a record, • No further action will be required, • This step completes the chance finding procedure • Construction activities can resume. 	<ul style="list-style-type: none"> • The Environmental Engineer will inform the Construction Manager that no further action is required or that a relocation is required, • The Project Environmental Engineer will record the decision in Section C of the Chance Detection Form within 24 hours, • The Project Environmental Engineer will keep a copy of the Chance Detection form as a record, • No further action will be required, • This step completes the chance finding procedure • Construction activities may restart or relocation may be implemented.
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Name	Communication	Address
Antalya Museum Directorate	+90 242 238 56 88 antalyamuzesi@kultur.gov.tr	Bahçelievler Neighborhood, Konyaaltı Street, No 88, 07050 ANTALYA

Name	Communication	Address
Antalya Cultural Heritage Protection Regional Board Directorate	+90 (242) 243 21 60 +90 (242) 247 87 61 +90 (242) 244 55 74 antalyakurul@ktb.gov.tr	Kilicaslan Neighborhood Zafer St. No: 6 07100 KALEICI / ANTALYA

Annex I – Change Notification Form

Change Notification Form		
Subproject Name		
Subproject Location		
Subproject Phase	<input type="checkbox"/>	Pre-construction
	<input type="checkbox"/>	Construction
	<input type="checkbox"/>	Operation
Name of the Institution Notifying the Change		
Date		
Category of the Change (please select all that apply)	<input type="checkbox"/>	Legislative Change
	<input type="checkbox"/>	Design Change
	<input type="checkbox"/>	Schedule Change due to E&S factors
	<input type="checkbox"/>	Project Schedule Changes due to technical, financial, legal or administrative factors
	<input type="checkbox"/>	Changes due to E&S issues encountered at Subproject implementation
	<input type="checkbox"/>	Contractor or Construction Supervision Consultant Change
	<input type="checkbox"/>	Other (please specify below)
Detailed Description of the Change(s)		
Documents Submitted with Change Notification Form		
Name of the Staff Notifying the Change		
Position of the Staff Notifying the Change		

Change Notification Form			
Signature			

Annex J - Institutional and Legal Framework in Türkiye

In Türkiye, institutional framework consists of central and local administrations. Türkiye is structured by provinces according to economical and geographical conditions. Each province is managed by local administrations consisting of municipalities, villages/neighborhoods. Representatives of the administrative structure of municipalities and villages/neighborhoods are mayors and mukhtar, respectively. Ministries, which are central administrative units, provide services to local areas through their local branches including provincial organizations affiliated to governor and district organizations affiliated to district governors.

Environmental impacts, permits, management and inspection of the project is under the scope of authority of MoEUCC, Ministry of Agriculture and Forestry, Ministry of Culture and Tourism, Ministry of Labor and Social Security and Ministry of Health. MoEUCC is the key authority regulating policies and procedures related to conservation and protection of natural environment, management of natural resources and settlements by its general directorates. Those principally related to the Project are given as follows:

- General Directorate of Environmental Impact Assessment, Permit, and Inspection
- General Directorate of Environmental Management
- General Directorate of Protection of Natural Assets
- General Directorate of Infrastructure and Urban Transformation Services
- General Directorate of Land Registry and Cadastral

Provincial, regional and district level administrations are the field organizations of ministries and relevant institutions. The sub-project includes Kepez Municipality, Antalya Provincial Directorate of Environment, Urbanization and Climate Change, Antalya Provincial Directorate of Agriculture and Forestry, Antalya District Directorate of Agriculture and Forestry, Antalya Cultural Heritage Protection Regional Board Directorate, State Hydraulic Works (DSİ) GAP 13th Regional Directorate and Varsakyalasi neighborhood association management have been associated as local administration for the sub-project.

The National Legislation applicable to the management of environmental, social, health and safety aspects of the proposed Project has been identified under this section.

The Environmental Law No: 2872 published in the Official Gazette No. 18132 dated 11.08.1983 and later revised in the Official Gazette No. 28661 and dated 29.05.2013 (Law No. 6486) constitutes the basic legal framework of the environmental legislation in Türkiye and is largely in line with the EU Directive on EIA.

This law is supported by numerous regulations. Article 10 of Environmental Law forms the main framework of the Environmental Impact Assessment (EIA Regulation) published in the Official Gazette No. 31907 dated 29.07.2022. As per the EIA Regulation, the projects that are listed in its Annex-I are subject to a full EIA process and those projects have to receive an “EIA Positive” certificate to proceed with investments. The projects that are listed in Annex-II of the Regulation are subject to a shorter process where the project proponents are required to submit a Project Information File (PIF) to the MoEUCC. MoEUCC gives its “EIA is Necessary” or “EIA is not necessary” decision regarding the project.

Unless the decision that “EIA is Positive” or “EIA is not Required” is made in accordance with the EIA Regulation for the project's activities, incentive, approval, permit, building license and use permit for such projects cannot be granted, and no investment can be started or tendered for the project. However, this does not preclude applying for the processing of such incentives, approvals, permits, and licenses. As part of the European Union membership process, Türkiye has carried out a variety of organizational and legislative reforms. With these reforms, environmental legislation and environmental protection instruments have been harmonized with international standards. The activities and liabilities to be carried out within the scope of the Project must adhere to the provisions of the relevant Turkish legislation.

According to the EIA Regulation (Official Gazette dated 29.07.2022 and numbered 31907), EIA is Not Required document was shared in Annex B.

In addition to Environmental Law No: 2872, several associated laws are complementary regarding the protection and sustainability of the environment as well as the protection of health and safety rights of people. Those laws which would be applicable to the proposed Project are listed below:

- Environmental Law No. 2872 (OG No:18132, dated 11.08.1983)

- Expropriation Law No. 2942 (OG No:18215, dated 08.11.1983)
- Forestry Law No. 6831 (OG No:9402, dated 08.09.1956)
- National Parks Law No. 2873 (OG No:18132, dated 11.08.1983)
- Conservation of Cultural and Natural Assets Law No. 2863 (OG No:18113, dated 23.07.1983, and revised through the amendment issued on 27.07.2004)
- Highways Traffic Law No. 2918 (OG No:18195, dated 13.10.1983)
- Soil Conservation and Land Use Law No. 5403 (OG No:25880, dated 19.07.2005)
- Terrestrial Hunting Law No. 4915 (OG No:25165, dated 11.07.2003)
- Animal Protection Law No. 5199 (OG No:25509, dated 01.07.2004)
- Labor Law No. 4857 (OG No:25134, dated 10.06.2003)
- Occupational Health and Safety Law No. 6331 (OG No:28339, dated 30.06.2012)
- Social Insurance and General Health Insurance Law (OG No:26200 dated: 16.06.2006)

The main national laws regarding Public Health and Safety are as follows:

- General Hygiene Law No. 1593
- Law No. 5378 on Disabled People
- Private Security Services Law No. 5188
- Law No. 7269 on Measures to be Taken and Assistance to be Provided Due to Disasters Affecting Public Life
- Building Earthquake Regulation in Türkiye (Official Gazette dated 18.03.2018 and numbered 30364)
- Disaster Regulation for Infrastructures (Official Gazette dated 15.02.2007 and numbered 30364)
- Law No. 4708 on Building Inspection (Construction and Usage Permits)
- Zoning Law No. 3194 (Construction and Usage Permits)
- Law No. 6306 on the Transformation of Areas Under Disaster Risk

The regulations developed under the Environmental Law aim to specify and identify the procedures and principles of the management of environmental aspects. Under the relevant laws, several regulations or communiques are summarized in below.

Table 1. Environmental, Social, Labor, Health and Safety Legislation

Regulations / Communiques	OG Number	OG Date	Relevance/Implication for the Project
Environmental Permit and Licenses			
Regulation on Environmental Impact Assessment	31907	29.07.2022	Scoping of the Project and evaluation of impacts for the pre-construction, construction and operation stages of the Project.
Regulation on Environmental Permits and Licensing	29115	10.09.2014	Requirements for environmental permits and licenses at all stages of the Project.
Regulation on Environmental Auditing	31509	12.06.2021	Requirements for environmental audits to be performed by either Project Owner or governmental authorities during construction and operation stages.
Regulation on the Implementation of the Law Concerning Private Security Services	25606	07.10.2004	During the construction phase for camp site security and during the operation phase for safety purposes.

Regulations / Communiqués	OG Number	OG Date	Relevance/Implication for the Project
Air Quality Control and Greenhouse Gas (GHG) Emissions			
Industrial Air Pollution Control Regulation	27277	03.07.2009	During the construction phase, dust emissions.
Exhaust Gas Emission Control Regulation	30004	11.03.2017	Operation of Project vehicles, machinery, and equipment at all phases of the Project.
Biodiversity Conservation and Protection of Nature			
Regulation on Protection of Wildlife and Wildlife Development Area	259637	08.11.2004	Measures to be taken for wildlife protection near to the Project area during the planning phase of the Project.
Chemicals and Other Dangerous Substances			
Regulation on Classification, Labelling, and Package of the Materials and Mixtures	28848	11.12.2013	Taking measures for chemicals and mixtures to be used during construction and operation phases.
Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals	30105	23.06.2017	Determination of chemicals to be used during the operation phase.
Regulation on the Control of Polychlorinated Biphenyls (PCBs) and Polychlorinated Terphenyls (PCTs)	26739	27.12.2007	Usage of transformers, capacitors, electrical equipment including voltage regulators, switches, oil used in motors, old electrical devices or appliances containing PCB capacitors, fluorescent light ballasts during the operational phase.
Noise			
Environmental Noise Control Regulation	32029	30.11.2022	Determination of noise emissions and measures to be taken at construction and operation phases.
Regulation on the Environmental Noise Emissions Caused by Equipment Used Outdoors	26392	30.12.2006	Regulating the noise levels caused by noise sources within the Project site at the construction and operation phases.
Soil and Land Use			
Regulation on the Control of Soil Pollution and Lands Contaminated by Point Sources	27605	08.06.2010	Determination of risks of soil contamination at construction and operation phases.
Regulation on Control of Excavated Soil, Construction and Demolition Wastes	25406	18.03.2004	Management of excavated soil and construction and demolition wastes at the source.
Regulation on Protection, Use, and Planning of Agricultural Lands	30265	09.12.2017	Management of change in the land use during the planning phase of the Project.
Waste			
Regulation on Waste Management	29314	02.04.2015	Management of waste from generation to disposal without harming the environment and human health during construction and operation phases.
Zero Waste Regulation	30829	12.07.2019	General principles regarding the establishment, development, monitoring, financing, recording and certification of the zero waste management system in line with sustainable development goals during construction and operation phases.
Regulation on Packaging Waste Control	30283	27.12.2017	Preventing the formation of packaging waste, reducing the amount of unavoidable packaging waste to be disposed of using reuse, recycling and

Regulations / Communiqués	OG Number	OG Date	Relevance/Implication for the Project
			recovery methods in construction and operation phases.
Regulation on Waste Oil Management	30985	21.12.2019	Waste oils included in the definition of waste oil and the management, recovery, disposal of these wastes, precautions to be taken and notifications to be made
Regulation on Medical Waste Control	29959	25.01.2017	Collection of medical waste in the places where it is produced, temporary storage, transportation to the medical waste processing facilities and disposal
Regulation on Control of Waste Electrical and Electronic Equipment	32055	26.12.2022	Management of electrical and electronic equipment wastes during construction and operation phases.
Regulation on Control of Waste Batteries and Accumulators	25569	31.08.2004	Establishment of a collection system and management for the recovery or final disposal of waste batteries and accumulators.
Regulation on Control of End-of-life Tires	26357	25.11.2006	Establishing a collection and management system for ensuring the necessary regulations and standards in the management of end-of-life tires during the construction and operation phases.
Water and Wastewater			
Regulation on the Protection of Ground Waters against Pollution and Deterioration	28257	07.04.2012	Protection of groundwater sources against pollution during construction and operation phases.
Regulation on the Control of Pollution Caused by Hazardous Substances in and around Water Environment	26005	26.11.2005	Management of hazardous substances during construction and operation phases.
Regulation on Wastewater Collection and Removal Systems	29940	06.01.2017	Procedures and principles regarding the planning, design and project design, construction and operation of wastewater collection and removal systems.
Structural Safety			
Regulation on Structures to be Built in Natural Disaster Areas	26582	14.07.2007	Management of construction works within the scope of the Project.
Regulation on Building Constructions in Earthquake Zones	26454	06.03.2007	Management of construction works within the scope of the Project.
Regulation on Building Earthquake of Türkiye	30364	18.03.2018	Measures to be taken for the design and construction works under the impact of earthquakes and the evaluation of the performance of existing buildings under the impact of earthquakes.
Regulation on the Protection of Buildings from Fire	26735	19.12.2007	Measures to be taken for fire protection during construction and operation phases.
Traffic			
Regulation on the Road Transportation of Hazardous Goods	28801	24.10.2013	Hazardous goods to be transported during construction and operation phase.
Regulation on Highway Traffic	23053	18.07.1997	Regulating speed limits of vehicles and machinery used during construction and operation phases.
Regulation on Traffic Signs	18789	19.06.1985	Regulating the traffic signs to be used during the construction and operation phases

Regulations / Communiqués	OG Number	OG Date	Relevance/Implication for the Project
Health and Safety and Labor			
Regulation on Emergency Situations in Workplaces	28681	18.06.2013	Preparation of emergency plans, prevention, protection, evacuation, firefighting, first aid and similar studies in workplaces.
Regulation on duties and responsibilities of OHS Specialists	28512	29.12.2012	Defines roles and responsibilities of OHS specialists
Regulation on duties and responsibilities of Occupational Physicians and other medical personnel	28713	20.07.2013	Defines roles and responsibilities of Occupational physicians and the medical personnel
Regulation on Health and Safety at Construction Works	28786	05.10.2013	Measures to be taken during construction phase.
Regulation on Health and Safety Conditions Regarding Use of Work Equipment	28628	25.04.2013	Measures to be taken during construction phase related to use of equipment.
Regulation on Health and Safety Precautions Regarding Working with Chemicals	28733	12.08.2013	Measures to be taken during construction and operation phase related to use of chemicals.
Regulation on Protection of Employees from the Hazards of Explosive Environments	28633	30.04.2013	Procedures and principles regarding the precautions to be taken in order to protect the employees from the dangers of explosive atmospheres that may occur in the workplaces in terms of health and safety.
Regulation on Health and Safety Regarding Temporary and Time-Limited Works	28744	23.08.2013	Protection of employees with a temporary or fixed-term employment contract at the same level as other employees in the workplace in terms of health and safety.
Regulation on Health and Safety Signs	28762	11.09.2013	Measures to be taken during construction and operation phases.
Regulation on Management of Dust	289812	05.11.2013	Measures to be taken to combat dust in terms of occupational health and safety to prevent the risks that may arise from dust in the workplaces and to ensure that the workers are protected from the effects of dust.
KKDİK (Registration, Evaluation, Authorization and Restriction of Chemicals) Regulation	30105	23.06.2017	Preparation of safety data sheets to ensure effective control and surveillance against the negative effects of harmful substances and mixtures on human health and the environment during construction and operation phases.
Law on Occupational Health and Safety (6331)	28339	20.06.2012	Health and safety measures to be taken during construction and operation stages.
Regulation on Personal Protective Equipment	30761	01.05.2019	Measures to be taken during construction and operation phases to ensure the health and safety of employees.
Regulation on Protection of Workers from Risks Created by Noise	28721	28.07.2013	Measures to be taken during construction and operation phases to ensure the health and safety of employees.
Regulation on Risk Assessment for Occupational Health and Safety	28512	29.12.2012	Determination of occupational health and safety risks occurring during construction and operation phases.
Regulation on Sub-contractors	27010	27.09.2008	Management of contractors/sub-contractors during construction and operation phases.

Regulations / Communiqués	OG Number	OG Date	Relevance/Implication for the Project
Regulation on Use of Personal Protective Equipment in Workplaces	28695	02.07.2013	Measures to be taken during construction and operation phases to ensure the health and safety of employees.
Regulation on Vocational Training of the Employees Working in Dangerous and Highly Dangerous Workplaces	28706	13.07.2013	Measures to be taken during construction and operation phases to ensure the health and safety of employees.
Regulation on the Procedures and Principles of Employee Health and Safety Training	28648	15.05.2013	Measures to be taken during construction and operation phases to ensure the health and safety of employees.
Regulation on High Current Electrical Facilities	24246	30.11.2000	Covers measures regarding the safe installation, construction, operation and maintenance of high current electrical facilities.
Regulation on Manual Handling	28717	24.07.2013	Defines the safe procedures for safe handling of goods and equipment using manual manpower.
Cultural Heritage			
Law on Protection of Cultural and Natural Assets	18113	23.07.1983	Although there will not be a major excavation on the project site, a chance finds procedure will be in place at the construction phase.
Regulation on Researches, Drillings and Excavations in relation to the Cultural and Natural Assets	18485	10.08.1984	Defining the procedures and obligations concerning the cultural and natural assets found out during construction.

International Agreements and Conventions:

The international agreements and conventions ratified by Türkiye are listed below:

- Paris Agreement (2021)
- UN Framework Convention on Climate Change (UNFCCC) (2004)
- Rio Declaration on Environment and Development and Statement on Forest Principles (1992)
- Convention on Biological Diversity (Rio Convention) (1992)
- Paris Convention on the Protection of the World Cultural and Natural Heritage (1975)
- Barcelona Convention on the Protection of the Mediterranean Sea Against Pollution (1976)
- The Convention for the Protection of Marine Environment and the Coastal Region of the Mediterranean (Barcelona Convention) (1981)
- Bern Convention on Protection of Europe's Wildlife and Living Environment (1982)
- Vienna Convention for the Protection of the Ozone Layer (1988)
- Montreal Protocol on Substances Depleting the Ozone Layer (1990)
- Convention on Wetlands of International Importance, Especially as Waterfowl Habitat (1994)
- Convention on International Trade in Endangered Species of Wild Fauna and Flora (1996)
- UN Convention to Combat Desertification (1998)
- United Nations Europe Economic Commission Convention on Transboundary Effects of Industrial Accidents (2000)
- Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters (Aarhus Convention) (2001)
- Stockholm Convention on Persistent Organic Pollutant (2010)
- Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention) (1972)

- Mediterranean Sea Protocol Concerning Specially Protected Areas and Biodiversity (1988), including related protocols
- International Labor Organization (ILO) Convention on Forced Labor (1930)
- ILO Convention on Freedom of Association and Protection of the Right to Organize (1948)
- ILO Convention on Right to Organize and Collective Bargaining (1949)
- ILO Convention on Equal Remuneration (1951)
- ILO Convention on Abolition of Forced Labor (1957)
- ILO Convention on Discrimination (Employment and Occupation) (1958)
- ILO Convention on Worst Forms of Child Labor (1999)
- Occupational Safety and Health Convention, 1981 (No. 155)

Annex K Sub project Flora

Table 29. Main Flora List of Korkuteli District

Flora					
	BERN	CITES	IUCN	Endemism	Source
Peucedanum alpinum	Unlisted	Unlisted	LC	Not endemic	V, L
Peucedanum	Unlisted	Unlisted	LC	Not endemic	V, L
Cyanus pinardii	Unlisted	Unlisted	LC	Not endemic	V, L
Glaucosciadium cordifolium	Unlisted	Unlisted	LC	Not endemic	V, L
Glaucosciadium	Unlisted	Unlisted	LC	Not endemic	V, L
Astragalus nitidissimus	Unlisted	Unlisted	LC	Not endemic	V, L

V: Visual

L: Literate

Potential Impacts of the Sub-project on Flora and Measures to be Taken

Dust emission can accumulate in the leaf blades, flowers, etc. of flora taxa, affecting both photosynthesis and respiration of the plant and causing slowdowns in the normal development process. Therefore, the work area will be watered regularly with a water truck to prevent dust emission.

Areas disturbed after project activities can be easily rehabilitated with plants from the natural flora of the region. For this reason, it is extremely important for the balance of the ecosystem that the natural plants of the region are preferred in the selection of plants for landscaping purposes.

Annex L Sub project Fauna

L.1 Mammals					
	BERN	CITES	IUCN	Endemism	Source
<i>Sus scrofa</i>	Annex-III	Unlisted	LC	Not endemic	V, L
<i>Vulpes vulpes</i>	Unlisted	Unlisted	LC	Not endemic	L
<i>Lepus europaeus</i>	Annex-III	Unlisted	LC	Not endemic	L
<i>Lynx lynx</i>	Annex-III	Annex-II	LC	Not endemic	V, L
<i>Martes martes</i>	Annex-III	Unlisted	LC	Not endemic	L
<i>Martes Faina</i>	Annex-III	Unlisted	LC	Not endemic	L
Bird					
<i>Aquila chrysaetos</i>	Annex-II	Unlisted	LC	Not endemic	V, L
<i>Bufo bufo</i>	Annex-II	Annex-II	LC	Not endemic	V, L
<i>Falco peregrinus</i>	Annex-II	Annex-II	LC	Not endemic	L
<i>Garrulus glandarius</i>	Annex-II	Unlisted	LC	Not endemic	L
<i>Turdus merula</i>	Annex-III	Unlisted	LC	Not endemic	L
<i>Luscinia megarhynchos</i>	Annex-II	Unlisted	LC	Not endemic	V, L
Reptiles and Amphibians					
<i>Hemidactylus turcicus</i>	Annex-III	Unlisted	LC	Not endemic	L
<i>Montivipera xanthina</i>	Annex-III	Unlisted	LC	Not endemic	L
<i>Natrix natrix</i>	Annex-II	Unlisted	LC	Not endemic	V, L
<i>HYla savignyi</i>	Annex-III	Unlisted	LC	Not endemic	V, L

V: Visual
L: Literate

Annex M Türkiye Earthquake Risk Map of the Sub-project Area and Sub-project Area Tectonic Map

Türkiye Earthquake Risk Map of the Sub-project Area and Sub-project Area Tectonic Map

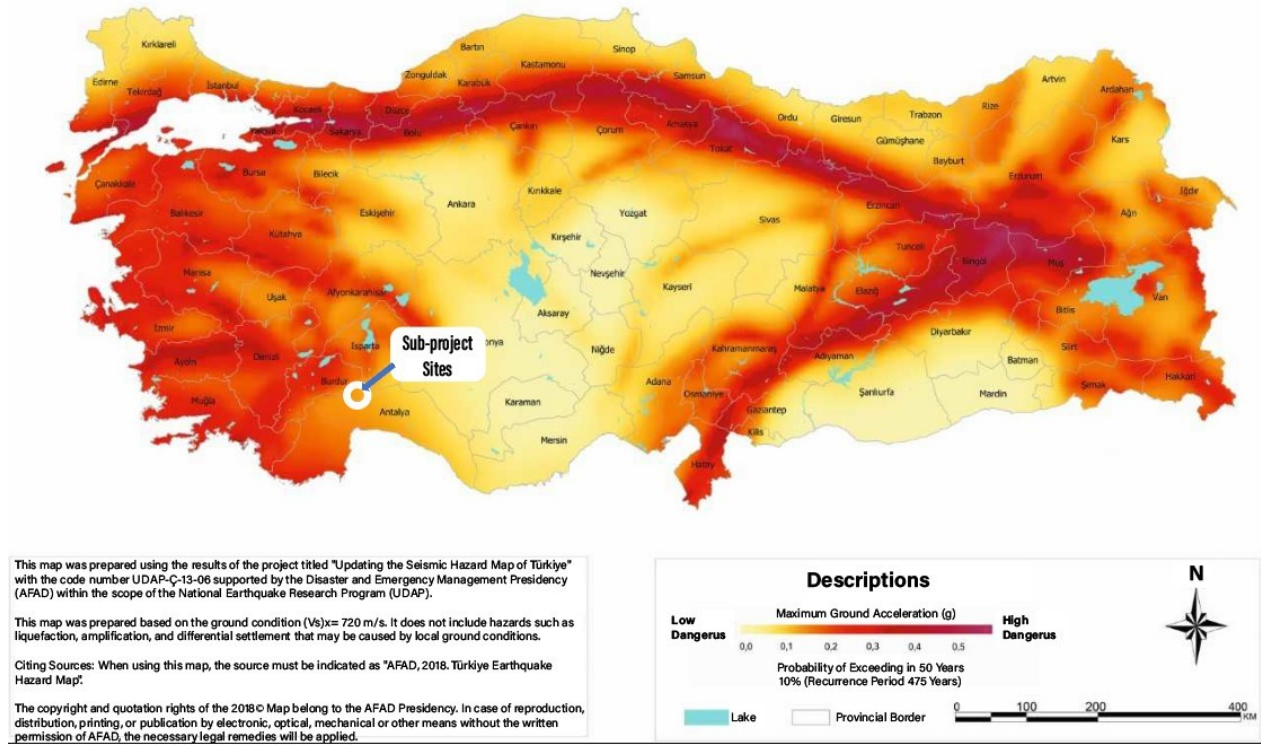


Figure 14. Türkiye Earthquake Risk Map of the Sub-project Area

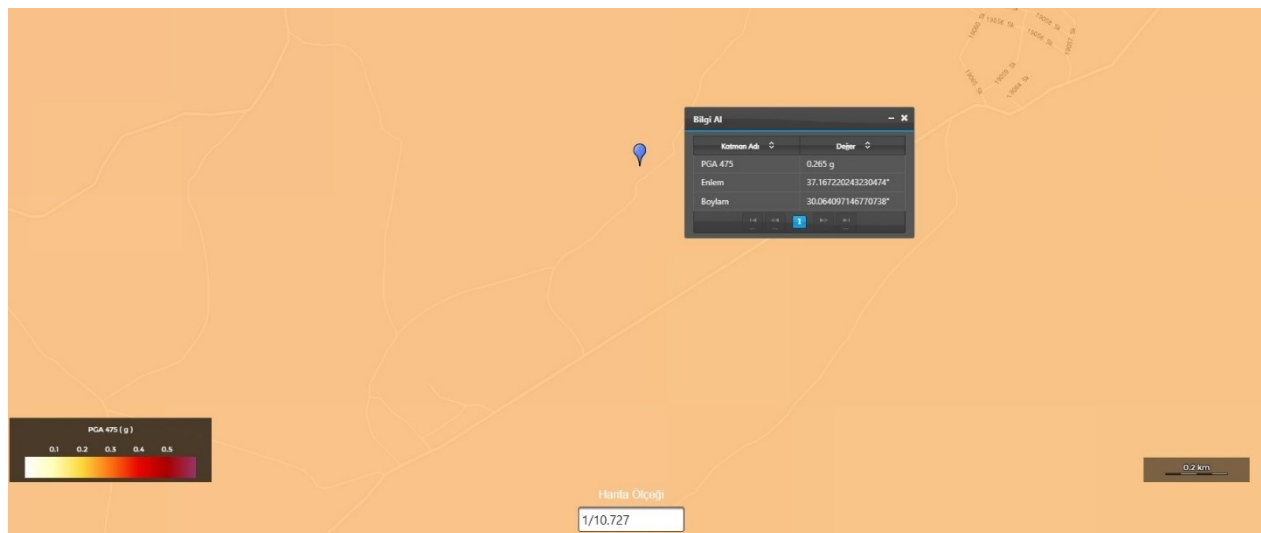


Figure 15. Sub-project Area Tectonic Map

Annex N Korkuteli District Insolation Map and Korkuteli District Tables of climate

Korkuteli District Insolation Map and Korkuteli District Tables of climate

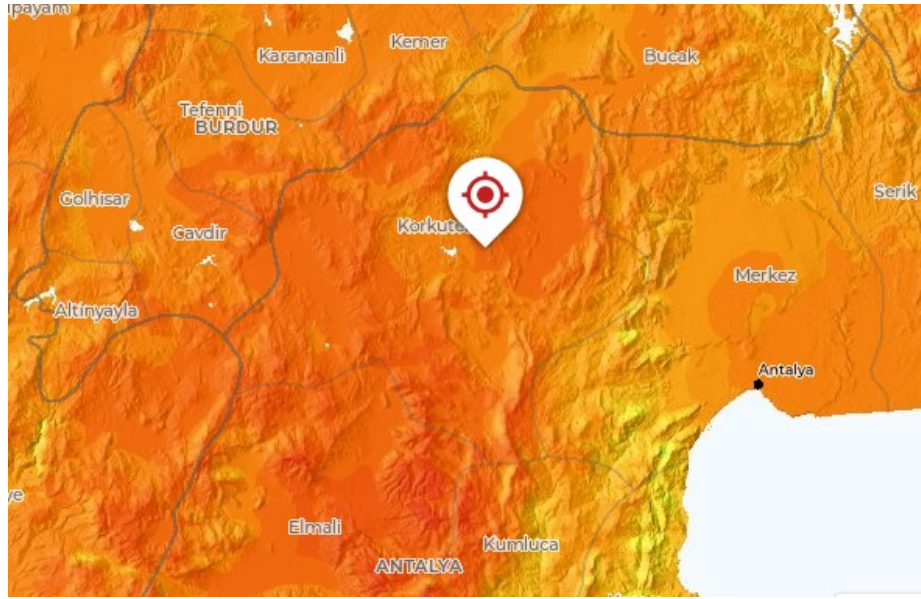


Figure 16. Korkuteli District Insolation Map

	Ocak	Şubat	Mart	Nisan	Mayıs	Haziran	Temmuz	Ağustos	Eylül	Ekim	Kasım	Aralık
Ort. Sıcaklık (° C)	7.7	8.7	11.5	15	20	25.6	29.3	29.1	24.6	18.9	13.4	9.3
Min. Sıcaklık (° C)	4	4.3	6.3	9.4	13.8	18.8	22.5	22.8	18.7	14	9.1	5.5
Maks. Sıcaklık (° C)	12	13.6	16.9	20.7	25.8	31.8	35.9	35.5	31	24.7	18.8	13.8
Yağış / Yağış (mm)	215	137	110	74	45	7	1	1	25	103	138	225
Nem(%)	72%	70%	66%	65%	58%	44%	38%	42%	49%	60%	67%	72%
Yağmurlu günler (g.)	10	8	8	6	4	1	0	0	2	4	6	10
Güneşli saatler (s)	5.8	7.0	8.8	10.2	11.9	13.0	12.9	12.1	10.8	9.1	7.6	6.2

Figure 17. Korkuteli District Tables of climate

Annex O Environmental Noise Level Limit Values and Noise levels by distance

Table 30. Environmental Noise Level Limit Values

Noise Source	Measured Parameter	Environmental Noise Level		
		Daytime (07:00 - 19:00)	Evening (19:00 - 23:00)	Night (23:00 - 07:00)
Industrial facilities transportation resources	L _{Aeq,5min.}	65 dB(A)	60 dB(A)	55 dB(A)
Workplaces ⁽²⁾	L _{Aeq,5min.}	Background + 5 dB(A)		Background + 3 dB(A)
In case of more than one workplace	L _{Aeq,5min.}	Background + 7 dB(A)		Background + 5 dB(A)
All sources	L _{Cmax}	100 dB(C)		

⁽³⁾ : These limit values are valid as of 31.12.2023. These limit values are valid for each 1/3 octave of the specified frequency range band. In the acoustic reports prepared until this date, environmental noise measurement results and measurement results measures identified are included.

⁽⁴⁾ : Each workplace contributing to the background noise level is jointly responsible for meeting this limit value. Each workplace takes necessary measures according to their contribution to noise.

Buyer	Daytime (07:00 - 22:00)	Night (22:00 - 07:00)
Settlement Areas	55	45
Commercial/industrial areas	70	70

Table 31. Noise levels by distance

Distance (m)	40	50	100	200	300	400	500	750	1000
Equivalent noise level (dB)	64.4	62.3	56.0	49.3	45.3	42.4	40.1	35.8	32.8

Annex P The Closest Water Resource

The closest water source to the sub-project site is Korkut Dam, which is 11.5 km away as the crow flies (Error: Reference source not foundError: Reference source not found).



Annex Q Images of the house in the parcel



The house in the images is located adjacent to the proposed solar panel area. The panels will be placed on the slope behind the house, reducing the visual impact on the building. No physical interference or shadowing effect is expected on the house.



Annex R List of Owners

KEPEZ BELEDİYE BAŞKANLIĞI KORKUTELİ VARSAK YAYLASI GES ENERJİ NAKİL HATTI TEDAŞ KURUM SIRA LI MALİK LİSTESİ												
İl-İlçe	Köy/Mah.	Kurum Dosya Sıra No	Kadastro			Cinsi	Yüzölçümü(m2)	Maliki			Hissesi	NOT
			Pafta No	Ada No	Parsel No			Tapu	Tapu	Baba Adı		
ANTALYA - KORKUTELİ	VARSAK YAYALSI	1	N24-D-07-D-2-C	101	79	TARLA	13809.61	ALİ	DL	Ş	1/2	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 2070.28 m² İrtifak Hakkı vardır.
								AL	İBİ		1/2	
ANTALYA - KORKUTELİ	VARSAK YAYALSI	2	N24-D-07-D-2-C	101	80	TARLA	3198.44	MI	HA		1/24	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 741.37 m² İrtifak Hakkı vardır.
								MI	OS		1/24	
								MI	ETİ		1/24	
								MI	HA		1/24	
								OS	RA		1/6	
								OS	KA		1/6	
								OS	FA		1/6	
								OS	HA		1/6	
								OS	AY		1/6	
ANTALYA - KORKUTELİ	VARSAK YAYALSI	3	N24-D-07-D-2-C	101	82	TARLA	11921.33	HA	FA		5/20	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 231.85 m² İrtifak Hakkı vardır.
								İBR	ME		3/20	
								İBR	KE		3/20	
								İBR	HA		3/20	
								İBR	ETİ		3/20	
								İBR	AY		3/20	
ANTALYA - KORKUTELİ	VARSAK YAYALSI	4	N24-D-07-D-2-C N24-D-07-D-2-D	101	20	TARLA	5392.14	ISN	NA		1/1	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 231.85 m² İrtifak Hakkı vardır.
ANTALYA - KORKUTELİ	VARSAK YAYALSI	5	N24-D-07-D-2-D	101	21	TARLA	5511.73	MU	SAI		1/4	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 873.09 m² İrtifak Hakkı vardır.
								MU	MA	RK	1/4	
								MU	ALİ		1/4	
								MU	ME	İK	1/4	
ANTALYA - KORKUTELİ	VARSAK YAYALSI	6	N24-D-07-D-2-A N24-D-07-D-2-D	162	3	Tarla	3788.40	HA	HA		1/4	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 949.66 m² İrtifak Hakkı vardır.
								HA	ÜM		1/4	
								HA	CEH		1/4	
								HA	FAT		1/4	
ANTALYA - KORKUTELİ	VARSAK YAYALSI	7	N24-D-07-D-2-A N24-D-07-D-2-D	162	4	TARLA	3565.81	ME	HAI		1/4	TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine Toplam: 739.53 m² İrtifak Hakkı vardır.
								ME	HA		1/4	
								ME	RA		1/4	
								ISM	DEP		1/16	

							IS
							IS
							IS
ANTALYA - KORKUTELİ	VARSAK YAYALSI	8	N24-D-07-D-2-A	159	106	TARLA	799.07
							N
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							IS
ANTALYA - KORKUTELİ	VARSAK YAYALSI	9	N24-D-07-D-2-A	159	112	TARLA	920.30
ANTALYA - KORKUTELİ	VARSAK YAYALSI	10	N24-D-07-D-2-A	159	161	HAM TOPRAK	78697.56

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TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine
Toplam: 139.59 m² İrtifak Hakkı vardır.

TEDAŞ GENEL MÜDÜRLÜĞÜ Lehine
Toplam: 115.40 m² İrtifak Hakkı vardır.

Annex S . Stakeholder Consultation Meeting Minutes (1)

Türkiye Public and Municipal Renewable Energy Project (PUMREP)

KEPEZ MUNICIPALTY SOLAR ENERGY PROJECT

Minutes of Stakeholder Consultation Meeting (1)

Meeting Date: 18.08.2025

Meeting Time: 14:00

Meeting Venue: Varsakyaylası Neighborhood Square

STAKEHOLDER CONSULTATION MEETING(1)

The Kepez Municipality Solar Power Plant Project is one of the subprojects under the Türkiye Public and Municipal Renewable Energy Project (PUMREP), which aims to support sustainable development in cities across Türkiye.

The subproject has been prepared in compliance with ILBANK's Environmental and Social Management System (ESMS), the PUMREP Environmental and Social Framework (ESF), and the requirements of the national environmental legislation of the Republic of Türkiye. As part of the stakeholder engagement process, a Stakeholder Consultation Meeting was held on 18 August 2025 at 14:00, at Varsakyaylası Neighborhood Square. To inform the local community about the meeting, printed materials such as brochures and posters were distributed and displayed, and announcements were published on the Kepez Municipality website as well as in local and national newspapers.

Meeting Summary

In the Kepez Municipality Public Consultation Meeting, the consultant firm representative provided detailed information about the process and content of the reports prepared for the implementation of the sub-project. A presentation was made mentioning the benefits that the sub-project would provide to the municipality and the local people. The presentation is shared in Annex-7.

The meeting was attended by 3 municipal police officers, 4 municipal staff, 3 experts from ILBANK Antalya Regional Directorate, 10 headmen of neighboring districts, and 193 local residents, making a total of 213 participants. Among the participants, 16 were women and 197 were men.

The area where the sub-project will be established (neighborhood, block, and parcel), the project capacity, the equipment and technical features to be used, the annual production of the project, and information that legal obligations were fulfilled were provided.

During the meeting, local people expressed strong concerns about the SPP project. The majority of the participants believed that the project would have negative impacts on the climate; they stated that snowfall would decrease, trees would not blossom, and natural cycles would be disrupted.

The residents also expressed their discomfort regarding the site selection of the SPP; they stated that the proximity of the power plant to the neighborhood would affect the quality of life and requested it to be relocated to a more distant area. Although technical explanations were made that the electricity needs could not be supplied directly from the new SPP, they were not found satisfactory. During the meeting, the consultant firm officials stated that with the SPP, the municipality would save on electricity expenses and that this saving would be used directly for public services. However, this explanation was also not sufficient to convince the residents. It was observed throughout the meeting that the public continuously and intensively voiced their objections, and that the technical responses given by the consultant firm and municipal representatives were not taken into consideration by the local people.

Questions and Answers Section

Question 1.	
Name/Occupation	Resident of Varsakyaylası Neighborhood

Wouldn't it have been possible to locate the sub project in a more distant area rather than near the neighborhood?	
Answer 1.	
Name/Occupation	(ÇA Engineering)
The sub project area was selected due to technical suitability criteria such as sunlight exposure, slope, shading, proximity to the transformer, as well as cost advantages.	

Question 2.	
Name/Occupation	Resident of Varsakyaylası Neighborhood
The electricity generated will benefit other municipalities; what benefit will it provide to us?	
Answer 2.	
Name/Occupation	(ÇA Engineering)
The municipality does not physically separate the electricity produced for the municipality or this neighborhood; it is fed into the national grid. The gains obtained from this will benefit you through investments in roads, parks, and social services.	

Meeting Outcome

During the approximately one-hour Stakeholder Consultation Meeting, representatives from the consulting firm provided information on the Kepez Municipality Solar Power Plant project, including environmental, social, and economic aspects, as well as the next phase of the sub-project. The meeting concluded with a question-and-answer session.

The participants expressed a high level of objection to the project. The main concerns were:

- The potential damage to the natural environment and climate cycles,
- Concerns about living conditions due to the proximity of the SPP to the neighborhood,
- The perception that they would not directly benefit from electricity production.

Municipal representatives explained that, through electricity savings achieved by the SPP, the allocated budget would be reduced and these resources would be directed to social services for the benefit of the public. However, this explanation did not convince the residents, and no consensus was reached during the meeting. The public's demands and objections were officially recorded.

To ensure the social sustainability of the sub project;

- Additional sessions should be planned where public concerns are directly addressed and local leaders participate,
- Information on the "electricity savings being directed to public services" announced by the municipality should be presented in a more visible and reassuring manner,
- Commitment should be made that staffing needs during construction and operation phases will be primarily met by local residents,
- Social dialogue mechanisms should be strengthened to build participants' trust in the project,
- All complaints, requests, and suggestions from the public should be actively received, transparently evaluated, and all efforts made to resolve them, with results regularly communicated to the public,
- Informative content on the benefits and contributions of the SPP project should be regularly shared via the official municipal website and social media accounts to minimize public concerns,
- Developments regarding all phases of the sub project should be communicated to the public through regular bulletins and local social media channels,
- Environmental impacts of the sub project should be shared with the public on a regular basis.

ANNEXES

Annex-1 Participant List

PAYDAŞ KATILIM TOPLANTISI TUTANAGI						
KABYEP Kepez Belediyesi (Antalya) Güneş Enerji Santrali Projesi Paydaş Katılım Toplantısı						
YERİ	Korkuteli İlçesi Varsakayyalı Mahallesi Meydanı/18.08.2025 saat 14:00					
	NO	İsim Soyisim	Meslek	Yerleşim Yeri	Telefon	İmza
KATILIMCILAR	1					
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PAYDAŞ KATILIM TOPLANTISI TUTANAĞI						
TOPLANTI KONUSU	KABYEP Kepez Belediyesi (Antalya) Güneş Enerji Santrali Projesi Paydaş Katılım Toplantısı					
TOPLANTI YERİ /TARİH VE SAAT	Korkuteli İlçesi Varsakayaylası Mahallesi Meydanı/18.08.2025 saat 14:00					
KATILIMCILAR	NO	İsim Soyisim	Meslek	Yerleşim Yeri	Telefon	İmza
	1		M. S. UZMAN	ANTALYA		
	2		G. M. M. H.	ANTALYA		
	3		"	"		
	4		"	"		
	5		EP42			
	6		ALBAŞ	11		
	7		İhan	11		
	8		BÖNCÜ	11		
	9					
	10					
	11		SPY	11		
	12		Büyükd	11		
	13		DİKMEN	11		
	14					
	15					
	16		Al. İlgin	İstemiye		
	17		Arslan	İstemiye		
	18		Pace	İstemiye		
	19		Ami	İstemiye		
	20		Karal	İstemiye		
	21		Karal	İstemiye		
	22		Karal	İstemiye		
	23		Dikmen	İstemiye		
	24		Karal			
	25		Abay	İstemiye		
	26		Barış	İstemiye		
	27		Dursun	İstemiye		
	28		Arslan	İstemiye		
	29		YARBAŞ			
	30		Dikmen	İstemiye		
	31		Arslan	İstemiye		
	32		Sidal	İstemiye		
	33		Arslan	İstemiye		
	34		Arslan	İstemiye		
	35		SEKİ	İstemiye		
	36		Eiden	İstemiye		
	37		Arslan	İstemiye		
	38		Arslan	İstemiye		

Annex-2: Stakeholder Consultation Meeting Photos (18.08.2025)

















Annex-3: National Newspaper Announcement (Announcement Date – Yeni Akit, 07.08.2025)

EMLAK KONUT GYO GENEL MÜDÜRÜ YILMAZ: YATIRIMCILARIN BÜYÜK FIRSATI

Damla Kent'in yanında yeni projelerimiz de olacak

Emlak Konut GYO Genel Müdürü Yılmaz, Damla Kent Projesi'ni altı gayrimenkul sertifikası talep toplama sürecinde bir derinleşme ile yeniden yapılandırdığını ve artırımlı artırımların önüne geçecek tedbirlerin de SPK ile birlikte alındığını belirtti.

SERTİFİKALAR YÜZDE 25 İNDİRİMİ OLARAK İZZ EDEBİLİR

• Küçük yatırımcıların gayrimenkul projelerine düşük tutarlarla ortak olabileme imkanı tanıyan Damla Kent Projesi Gayrimenkul Sertifikası halka arz fiyatı yüzde 25 indirimli olarak 7.59 lira olarak belirlendi. Emlak Konut GYO Genel Müdürü Yasin Yılmaz, Damla Kent'in marka projeler arasında geçeceğini vurguladı.

KEMUT ARZI VE ARSA ALIMLARINI HIZLANDIRDI

• Emlak Konut olarak konut arzı noktasında son sürat çalışıldığını, arsa alımlarını hızlandırdıklarını belirtti Yılmaz, "Gayrimenkul sertifikasına kurum olarak inanıyoruz. Önümüzdeki dönemde fark ve avantajla projelerimizi de bu şekilde hayata geçirmek istiyoruz" ifadelerini kullandı. • 116

YENİ AKİT

Ekrem, rüşvet paralarını hediye paketi yapıp, özel jetle göndermiş

• İBB yolculuk sonucunda erkin piyramatik kaptanında ikinci defa ifade veren iddame Sarp Kalçıkaya, rüşvet paralarının hafriyat, döküm işinden kazandığı paraları gıda fabrikaları, akıldığını, paralarını özel jetle yurt dışına hediye paketi şeklinde ve valizlerle taşıdığını, yurt dışında Ekrem İmamoğlu'nun bildirildiği adreslere teslim edildiğini açıkladı. • 194

KIRLI İTTİFAK KURMA GÖREVİ ÇAKMA ÜLKÜCÜLERDE

MÜSAVAT'IN 'P'İ SOLUN ELİNDE

BARAN: ÜLKÜCÜLER CHP İLE AYNI MASADA OLAMAZ

• CHP ile masaya oturan ülkücü iddiasında bulunamayacağını vurgulayan Başbakan Ülküçüler Platformu Kurucusu Adnan Baran, "Ülküçülerin emperyalizmi leri karakolu haline gelen CHP ile yeni yana gelmesi mümkün değildir. Kim ki teröriz Türkiye idealine karşı çıkmışsa, o bu coğrafyaya çocuğu değildir" dedi.

İTİP: MİLLET BU SİSTEME 'EVET' DEMİŞTİR

• Ülkücü geçmişli olan hiçbir siyasetçinin, CHP gölgesi ve fikri altında siyaset yapamayacağını söyleyen Yusufiye Ülküçüler Derneği Başkanı Hasan İler, "Daha önce de yeni ittifak kurup, ahlaki masayı oluşturmamış mı? Çankırı adanmış siyasetçi olmaz. Millet bu sisteme evet demişti" diye tepki gösterdi. • 194

Anadolu insanlığın ortak hafızasıdır

Anadolu topraklarının binlerce yıl boyunca sayısız topluluğa, tarhin akışını değiştiren nice devlet ve medeniyetler yer alarak yaşamışlardır. Cumhuriyetin başkanı Erdoğan, "Milletçe bir bin yıldır buradayız. Bu topraklarda yaşıyoruz. İncisahlı kıyama kadar da burada olmaya devam edeceğiz" dedi.

• Uluslararası Arkeoloji Sempozyumu ve Arkeolojinin Aklın Çağı Sempozyumu için Erdoğan, "20. yüzyıl medeniyet ve muhafaza olmakla gurur duyduğumuz kimliklerimiz, sivilizasyonlarımız, adim adim abut ettiğimiz Türk-İslam medeniyetinin en nadide eserleriyle nakış nakış süzülüyor. Anadolu, insanlığın tüm serencamını yansıtan bir açık hava müzesidir" ifadelerini kullandı. • 194

STK'LAR GAZZE İÇİN TBMM'YE SESLENDİ:

Gazze'ye insani yardım koridoru oluşturulsun

Anadolu Sivil Toplum Platformu'nu oluşturan STK'lar soykırım İsrail'in saldırıları ve ablukası altında açıldan kurtarılan Gazze'li mağdurlar için TBMM'nin harekete geçerek, "insani yardım tezekkere" çıkarmasını ve Gazze'ye açılan bir insani yardım koridorunun oluşturulmasını çağırısı yaptı.

• Gazze'deki Müslümanların tarhin en acı soykırımı ile karşı karşıya olduğunu hatırlatan STK'lar, 30 Ağustos Pazar günü Ankara Güvenpark'tan TBMM'ye büyük bir yürüyüş gerçekleştirecekler. ANADAP Sözcüsü İsmail Mansur Özdemir, Meclis'ten taleplerinin, Gazze'ye insani yardım tezekkresi olduğunu belirtirken, Kudüs ve Hukuk Platformu Sözcüsü Avukat Mustafa Emrinoğlu, Gazze meselesinin partiler ötesi bir mesele olarak idrak edilerek, harekete geçmesini istedi. • 194

KAAN, F-35'E RAKİP OLACAK

• CHP'nin bapçı çektiği salakların "kal-korifer peteği" dediği Türkiye'nin 5. nesil savaş uçağı KAAN'ın değerlendiren American Newsweek dergisi, ABD yapımı F-35'le kıyasla Türkiye'nin KAAN savaş uçağını daha erişilebilir olduğunu yazdı. • 194

Altın değil, bakliyat tanesi arıyorlar

İslamcı oldukları İsrail'in kantonlarında ortak olan emperyalistler, Gazze'de yaşlı emperyalistler, İslamcı ve emperyalistlerle parçalanmış yardım kantonlarından etrafa savrulmuş piyrazı bekletiyorlar. • 194

600 MİLYON DOLARLIK MURABAHA

• Türkiye Varlık Fonu (TVF), 600 milyon dolarlık 5 yıl vadeli murabaha finansmanına imza attı. Kuveyt'ten İslami bankası olan Kuwait Finance House grubu bankalarının oluşturduğu konsorsiyum ile imzalanan sözleşme sonrası TVF'nin İslami finansman piyasalarından sağladığı toplam kaynak tutarı 1.8 milyar doları aştı. • 194

Sahte diplomasi avukat yok

HABER 7. SAYFADA

İzmir'de susuzluk had safhada

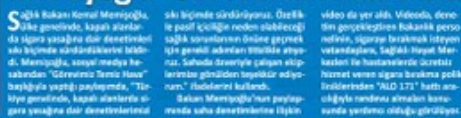
HABER 7. SAYFADA

Çelik: Sahtekarları söküp atacaktır

• AK Parti MİTÇİ toplantısı sonrası açıklamalarında bulunan Parti Sözcüsü Ömer Çelik, Türkiye'nin gündeminde oturan sahte diplomasi skandalı ile ilgili olarak, "İçli kurulumları 3 yıl önce uyandırılmış ve operasyonları yapıldığını belirttik. Sahtekarları söküp atacaktır" dedi. • 194

Kuveyt Türk'ten ihracatçılara destek

• Kuveyt Türk Kurumsal ve Ticaret Bankası'ndan Sorumlu Genel Müdür Yardımcısı Ahmet Albayrak, ihracatçıların güçlü bir şekilde desteklenmeye ve ekonomik büyüme katkıda bulunmaya sunduğunuzlerini söyledi. • 194



İzmir'de vahim tablo

[illegible][illegible]

İL ADI	KAMULAŞTIRMA İLANI	KAMULAŞTIRMA İLANI
İZMİR	<p>ESAS NO : 2025/180 ESAS</p> <p>KAMULAŞTIRILAN TAŞINIMIN BULUNDUĞU YER : Kastamonu il.</p> <p>Devletlerin ilçesi</p> <p>MEVKEİ : Çataca Köyü</p> <p>ADA NO : 175 ada</p> <p>PARSEL NO : 81 parsel</p> <p>YÖZÜLÜĞÜMÜ : 1300,17 m²’lik irtfak aları, 18,81 m²’lik dinak yer</p> <p>HAZIRLANAN DİE YERİ SOYADI : SEYFETTİN ÖMÜR</p> <p>KAMULAŞTIRMAYI YAPAN İDARENİN ADI : TÜRKİYE ELEKTRİK DAĞITIM A.Ş. GENEL MÜDÜRLÜĞÜ</p> <p>KAMULAŞTIRMANNIN YER BELGELERİN ÖZETİ : Kamulaştırmay yapacak davacı idare, malikienle cins ve niteliği yurkanda yapı taşınımın kamulaştırma bedeline tespoli cins davacı idare tarafından malikememizin 2025/180 Esas sayısında dava açılmıştır. 204 Sayılı Kamulaştırma Kanunu maddelerinde 4. bendi yurancına kan olmaktadır.</p>	<p>ESAS NO : 2025/170 ESAS</p> <p>KAMULAŞTIRILAN TAŞINIMIN BULUNDUĞU YER : Kastamonu il.</p> <p>Devletlerin ilçesi</p> <p>MEVKEİ : Çataca Köyü</p> <p>ADA NO : 175 ada</p> <p>PARSEL NO : 81 parsel</p> <p>YÖZÜLÜĞÜMÜ : 928,52 m²’lik irtfak aları, 4,71 m²’lik dinak yer</p> <p>HAZIRLANAN DİE YERİ SOYADI : BAYRAM KAPUCUOĞLU</p> <p>KAMULAŞTIRMAYI YAPAN İDARENİN ADI : TÜRKİYE ELEKTRİK DAĞITIM A.Ş. GENEL MÜDÜRLÜĞÜ</p> <p>KAMULAŞTIRMANNIN YER BELGELERİN ÖZETİ : Kamulaştırmay yapacak davacı idare, malikienle cins ve niteliği yurkanda yapı taşınımın kamulaştırma bedeline tespoli cins davacı idare tarafından malikememizin 2025/170 Esas sayısında dava açılmıştır. 204 Sayılı Kamulaştırma Kanunu maddelerinde 4. bendi yurancına kan olmaktadır.</p>

Room: further www.hes.gov.ch/de | Email: 2272022 | Room: further www.hes.gov.ch/de | Email: 2272001 | Room: further www.hes.gov.ch/de | Email: 2272009

Sahte diplomal 'AVUKAT YOK'

Till'in yapmış açıklama-
da, bunların güvenilirli-
ğine ilişkin bilgilerin
gizli ve gizli olmayan
bilgilerle ilgili olarak
Till'in yapmış açıklama-
da, bunların güvenilirli-
ğine ilişkin bilgilerin
gizli ve gizli olmayan
bilgilerle ilgili olarak

Üniversite sistemlerinde güvenlik açığı mı?
Başkasına üniversite, kendisinin diploması hazırlamış

Ankara Cumhuriyet Başsavcılığı'na, Ankara İl Emniyet Müdürlüğü Siber Suçlara Mücadele Şube Müdürlüğü koordinasyonunda Ankara merkezli 23 ilde eş zamanlı olarak Ocak ayın-

ESAS NO : 2025/170 Esas
KAMU LAĞİSTIRIN TAŞINMAZIN
BULUNDUĞU YER : Karaman'ın il.
Devletin ilgisiz
MEVKEİ : Çatal Köyü
ADA NO : 175 ada
PARSEL NO : 40 parsel
YÜZÖLÇÜMÜ : 929,52 m²'lik inşaat
alanı, 4 m²'lik dışık yüzü
MALIKIN ADI VE SOYADI : BAYRAM
KALICIĞU
KAMU LAĞİSTIRI
İDARENİN ADI : TÜRKİYE ELEKTRİK
DAĞITIM A.Ş. GENEL MÜDÜRLÜĞÜ
KAMU LAĞİSTIRMANNIN
BEĞİRLERİNİN ÖZETİ : Kamu lağıstır-
ının taşınmazı, taşınmazın bulunduğu mekân-
lı cins ve niteliği yönünden yazılı taşınmaz-
mızın kamu lağıstırına bedelinin tespiti ve
tesolisi için davacı aralarında mathe-
metiklerin 2025/170 Esas sayısında
davalıların 2025/170 Esas sayısında
Yasasın 10. maddesinin 4. bendi
uyarınca kanun olmuştur.

BAGLI/İLÇESİ	YER	TARİH VE SAAT
ANTALYA/ KORKUTELİ	Versakıyılar Mahallesi Meydanı	18/08/2025 14:00
PROJE SAHİBİ	Kepez Belediyesi	
Telefon	444 6 007	
E-Posta	info@kepez-045.gov.tr	
ÇSYP Hazırlayan Kuruluş	ÇA Mühendislik	
Telefon	0563 144 08 75	

Annex-5: Kepez Municipality Website – Announcements (07.08.2025)



DUYURU

**5 MW KAPATİSELİ
GÜNEŞ ENERJİ SANTRALİ
PROJESİ HAKKINDA**

Kepez Belediyesi 5 MW Kapasiteli Güneş Enerji Santrali Projesi Hakkında Kamuoyu Duyurusu Detaylı Bilgi İçin Tıklayınız

Annex-6: Kepez Municipality Announcements (14.06.2025)



varsakhabermedya



varsakhabermedya 🌿 Varsak Yaylası'nda Enerji Projesi – Halkın Tavri... devamı

4 gün önce





















Annex-7: Kepez Municipality Stakeholder Consultation Meeting Brochure

The Kepez SPP Project ("Sub-project"), is one of the sub-projects within the Türkiye Public and Municipal Renewable Energy Project (PUMREP) ("Project"), which was developed to support sustainable development in cities across Türkiye. PUMREP aims to develop renewable energy sources, particularly by investing in sustainable urban development.

The sub-project, financed by the World Bank (WB), will be implemented by the Kepez Municipality through İller Bankası A.Ş.

The sub-project aims to contribute to local development and reduce electricity consumption costs by utilizing renewable energy in the Varsakvıyısı neighborhood of Korkuteli, Antalya Province.

In this context, the sub-project will be constructed with a 30-year lifespan. The SPP project is expected to generate electricity from two units: SPP-1 with a capacity of 3,168.63 kWp / 2,500 kW_e and SPP-2 with a capacity of 3,070.53 kWp / 2,500 kW_e.

In this context, the sub-project will be operational lifespan of 30 years period of the power plant to be established. The SPP project is expected to generate electricity from two units: SPP-1 with a capacity of 3,168.63 kWp / 2,500 kW_e, and SPP-2 with a capacity of 3,070.53 kWp / 2,500 kW_e. The sub-project will be constructed on an area of approximately 15.78 hectares, located on lot 161 of block 159, in Varsakvıyısı Neighborhood, Korkuteli District, Antalya Province (see Figure 1). Along the route of the Energy Transmission Line that will connect the sub-project to the grid, there are lots 20, 21, 79, 80, and 82 of block 101; lots 106, 112, and 161 of block 159; and lots 3 and 4 of block 162.

2

The expected results of the sub-project are as follows:

- The sub-project will contribute to providing a portion of the Kepez district's electrical energy needs from solar energy and provide the district with access to clean energy.

- The sub-project will reduce the dependence on fossil fuels for energy and ensure the economic development of the district,

- The sub-project will contribute to Türkiye' s efforts to comply with national and international quality standards in the renewable energy sector,

- The use of clean energy will represent a step in the fight against climate change and contribute to the environmental and economic well-being of local communities.

Local people will be prioritized in the recruitment process of the sub-project.

The sub-project will be in line with national legislation as well as good international practices, including WB Safeguard Policies, guidelines, standards and best practice documents.

3

The sub-project will create job opportunities for local residents during the construction and operation phase. It is expected that the construction works of the SPP project will be completed in a fairly short period of time, road closures will be avoided as much as possible, and businesses around the sub-project are not expected to close due to construction activities.



Figure 1: Kepez Municipality SPP Project Area

An Environmental and Social Management Plan (ESMP) and Stakeholder Engagement Plan (SEP) has been developed to manage the expected impacts.

The ESMP is prepared to monitor and assess potential environmental and social impacts and risks over the life of the sub-project and to propose mitigation measures for significant adverse environmental impacts.

4

Monitoring and audit activities to be implemented within the scope of the ESMP will also be defined. Within the scope of ESMP studies, impacts that may occur such as soil and air environments, noise, odor, water resources, wastes, traffic, ecosystem, existing natural disaster risks related to the area where the sub-project will be established, reflection and glare effects that may be experienced due to SPP will be determined and relevant avoidance mitigation measures will be specified.

Monitoring requirements will also be defined and presented in the monitoring tables within the ESMP. Accordingly, during the construction phase of the sub-project, topsoil loss and compression, soil and water pollution due to leaching of pollutants and chemicals into the soil and groundwater, dust emissions, noise during construction of the sub-project and from temporary traffic load, waste generation and occupational health and safety, and during the operation phase, storage and use of chemicals, wastes, noise, reflection and glare impact of the power plant, livelihoods, grievances, community conflicts, stakeholder engagement, occupational health and safety and labor parameters will be monitored in accordance with the requirements set out in the ESMP.

The main institution responsible for the implementation of this Environmental and Social Management Plan (ESMP) is the Municipality of Kepez, which is also responsible for the construction and operation phases of the sub-project. In addition, various parties at different stages of the sub-project (Contractors, Consulting firm, sub-project Implementation Unit, ILBANK, etc.), will take responsibility for various issues within the scope of ESMP. All the mentioned works will be coordinated by the Municipality of Kepez.

The sub-project documents will also be published on the website of Kepez Municipality.

5

Sub-project documents will also be published on Kepez Municipality's website and will be shared by Kepez Municipality upon request.

Kepez Municipality has established a **Grievance Mechanism** to receive, resolve and follow up on the concerns and grievances of sub-project affected communities. All grievances will be effectively received, recorded and responded to within a predetermined timeline and according to their content. Kepez Municipality will be the responsible institution for the establishment and implementation of the Grievance Mechanism. In this context, the communication channels given below can also be used to share expectations, opinions, suggestions and complaints about the sub-project.

Kepez Municipality:

Telephone: +90 444 6 007

E-mail: info@kepez-bld.gov.tr

All internal and external stakeholders will also have the right to make use of other grievance mechanisms, such as the Presidency's Communication Center (CIMER), which is accessible to all sub-project stakeholders and is used nationwide, as an alternative and well-known channel to communicate sub-project-related complaints and feedback directly to government authorities.

- www.cimer.gov.tr
- Call Center :150
- Telephone Number: 0(312) 590 20 00

6

TURKIYE PUBLIC AND MUNICIPAL RENEWABLE ENERGY PROJECT (PUMREP)

Kepez Municipality

Solar Power Plant Project

Public Consultation Meeting

Information Brochure

18/08/2025
14:00

Varsakvayası Neighborhood Square



WORLD BANK GROUP



T.C. ÇEVRE, ŞEHİRCİLİK VE
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



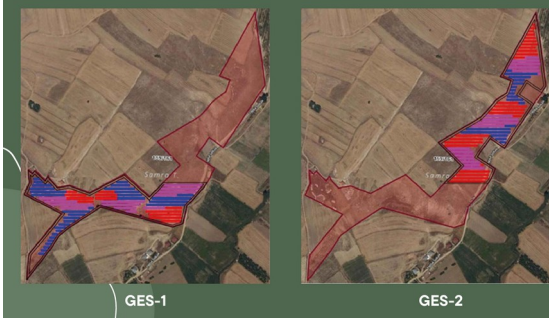
1

Annex-8: Stakeholder Consultation Meeting Presentation

 <p>Kepez Belediyesi Güneş Enerji Santrali Projesi</p> <p>18.08.2025 / Halkın Katılımı Toplantısı</p> <p>WORLD BANK GROUP T.C. ÇEVRE, ŞEHİRCİLİK VE KLİM BİLGİSİZLİĞİ BAKANLIĞI İLBANK TÜRKİYE KİTİ PİYASASI KEPEZ BELEDİYESİ BY C ADMINSTRATİNG</p>	 <p>Toplantı Gündemi</p> <p>Konu Başlıkları</p> <ol style="list-style-type: none">1. Toplantının Amacı2. Toplantının Tanıtımı / Yasal ve Finansal Çerçevesi3. Projenin Teknik Özellikleri4. Projenin Amaçları ve Beklenen Faydalar5. Proje Takvimi6. Çevresel ve Sosyal Etkiler7. Çevresel ve Sosyal Yönetim Planı (CSYP)8. İşgücü ve İstihdam Planı9. Şikâyet Mekanizması10. Teşekkürler
 <p>Toplantının Amaç</p>	 <p>Bu toplantının amacı, Kepez Belediyesi tarafından hayata geçirilecek olan Güneş Enerji Santrali (GES) projesi hakkında siz değerli vatandaşları bilgilendirmek, projenin çevresel ve sosyal etkileri konusunda şeffaf bir şekilde bilgi sunmak ve sizlerden gelecek görüş, öneri ve soruları dinlemektir.</p>
 <p>Toplantının Tanıtımı / Yasal ve Finansal Çerçevesi</p>	 <p>Kepez GES Projesi, Türkiye Kamu ve Belediye Yenilenebilir Enerji Projesi (KABYEP) kapsamında, Dünya Bankası finansmanı ile Kepez Belediyesi tarafından İLBANK aracılığıyla yürütülmektedir. Bu proje, sürdürülebilir enerji üretimi ve yerel kalkınmayı hedeflemektedir.</p> <p>Proje, ulusal mevzuatlara ve Dünya Bankası'nın çevresel ve sosyal güvenlik politikalarına uygun olarak yürütülmektedir.</p> <p>Proje finansmanı Dünya Bankası tarafından sağlanmakta olup uygulayıcı kurum İller Bankası'dır.</p>

Projenin Teknik Özellikleri

Proje, Antalya İli, Korkuteli İlçesi, Varsakayaylası Mahallesi 159 ada 161 parsel sınırları içerisinde toplam 15,78 hektarlık bir alanda kurulacak 2 üniteden oluşmaktadır (GES-1 ve GES-2). Her bir ünitenin kurulu gücü yaklaşık 2.500 kWe' dir. Santralin ekonomik ömrü yaklaşık 30 yıl olarak öngörülmektedir.



Alt projeyi bebekeye bağlayacak Enerji Nakil Hattı güzergahı üzerinde 101 ada 20, 21, 79, 80 ve 82 numaralı parseller; 159 ada 106, 112, 161 numaralı parseller ve 162 ada 3 ve 4 numaralı parseller bulunmaktadır. Bu parsellerin Kamulaştırma ve İntifak hakkı işlemleri Akdeniz EDAŞ tarafından yürütülmektedir.

<p>9.564 MWh Yıllık Üretim Kapasitesi</p> <p>5.927 ton Karbon Salımının Azaltılması</p> <p>3900 hane Elektrik Tüketimine Eşdeğer</p> 	<p>Projenin Amaçları ve Beklenen Faydalar</p>  <p>Proje ile Kepez Belediyesi'nin elektrik ihtiyacını yenilenebilir güneş enerjisiyle karşılayarak enerji maliyetlerini düşürmek ve enerji arz güvenliğini artırmak hedeflenmektedir.</p> <p>Kepez Belediyesi, sürdürülebilir enerji uygulamalarıyla iklim değişikliğine karşı taahhüdünü ortaya koyarak kamu sektöründe öncü bir rol üstlenmektedir.</p> <p>Kurulum ve işletme sürecinde yerel istihdamda öncelik verileceğinden, proje aynı zamanda bölgesel ekonomik kalkınmaya da katkı sağlayacaktır.</p>
<p>Proje Takvimi</p>  <p>İnşaat süresi yaklaşık 5 ay olarak planlanmakta olup, gerekli tüm ekipman temini ve montaj işlemleri yüklenici tarafından gerçekleştirilecektir. Projenin ekonomik ömrü ise 30 yıl olarak öngörülmektedir.</p>	<p>Çevresel ve Sosyal Etkiler</p> <p>Projenin hayata geçirilmesiyle birlikte; toprak, su, hava kalitesi, flora/fauna, gürültü, yangına ve trafik gibi çevresel etkiler öngörülmekte ve değerlendirilmektedir. Aynı şekilde yerel halk, geçim kaynakları ve sosyal yapılar üzerindeki etkiler de analiz edilmiştir.</p> <p>Bu etkiler kısa süreli ve geçici olup yerel halkın etkilenmesi beklenmemektedir.</p>
<p>Çevresel ve Sosyal Etkiler</p> <p>Proje Kapsamında Alınacak Çevresel ve Sosyal Önlemler:</p> <ul style="list-style-type: none"> Bu Kaynakların Korunması: Proje süresince su kaynaklarının olumsuz etkilenmemesi için gerekli tüm teknik ve çevresel önlemler alınacaktır. Parlama ve Yangına Önlemleri: Güneş panelleri, yenileşim yerlerini olumsuz etkilemeyecek şekilde konumlandırılacak; parlama ve yangına etkileri en aza indirilecektir. Toprağın Korunması ve Yeniden Kullanımı: Faaliyetler kapsamında yalnızca yüzey sıyrma işlemi yapılacak; alınan toprak proje sahasında peyzaj düzenlemelerinde tekrar kullanılacaktır. Yerel İstihdam Önceliği: İnşaat ve işletme aşamalarında ihtiyaç duyulan personel arasında yerel halk öncelikli olarak değerlendirilecektir. Ağaç Kesilmemesi: Proje sahasında hiçbir şekilde ağaç kesimi yapılmayacaktır. 	<p>Çevresel ve Sosyal Etkiler</p> <p>Güneş Enerjisi Santralleri (GES) çevresel açıdan pek çok fayda sağlar. Başlıca çevresel faydaları:</p> <ol style="list-style-type: none"> Karbon Salımının Azaltılması: GES, fosil yakıt kullanmadan elektrik üretir. Bu sayede karbondioksit (CO₂) ve diğer sera gazı emisyonlarını önemli ölçüde azaltır. Hava Kirliliğini Önler: Kömür, doğalgaz veya petrol gibi fosil yakıtlı santrallerin aksine GES, hava kirliliği partiküller ve zararlı gazları yaymaz. Su Tüketimini Azaltır: Fosil yakıt ve nükleer santraller genellikle büyük miktarda su kullanır. GES'ler ise su tüketimini neredeyse sıfıra indirir. Doğal Kaynakların Korunmasını Sağlar: Güneş enerjisi bir kaynaktır ve GES ile enerji üretmek, fosil yakıt rezervlerini tüketmeden enerji sağlar. Toprak ve Ekosistem Üzerindeki Olumsuz Etkileri Azdır: GES tesisleri, doğru planlandığında arazi ve çevre üzerindeki olumsuz etkileri minimumdur. Özellikle rooftop GES'ler arazi kullanımını değiştirmez. Gürültü Riskine Azdır: Fosil yakıt santrallerine kıyasla GES'ler sessiz çalışan ve çevresel gürültü kirliliği azaltır. İklim Değişikliği ile Mücadele: Yenilenebilir enerji üretimi sayesinde GES, iklim değişikliğinin yavaşlatılmasına katkı sağlar.
<p>Doğru Bilinen Yanlışlar</p> <p>YANLIŞ: Güneş panelleri kanser yapar ve çevreye mutlaka zarar verir.</p> <p>DOĞRU: Bazı panel türleri (örneğin kadmiyum tellürid - CdTe) toksik maddeler içerebilir. Ancak bu maddeler panellerin içinde özel malzemelerle kaplanıp ve normal kullanımda dışarıya sızmaz. Riskler, yanlış imha veya kazalar gibi olaylar dışı durumlarda sınırlıdır.</p> <p>YANLIŞ: Çiride üretilen paneller insan sağlığı için tehlikelidir.</p> <p>DOĞRU: Çin'in düşük işçilik maliyetleri ve yüksek üretim kapasitesi fiyat avantajı sağlar. Ancak sağlık riski, üretim sürecindeki çevre standartlarının uygulanma düzeyine bağlıdır. Tüm Çin panelleri için genelleme yapmak doğru değildir.</p>	<p>Doğru Bilinen Yanlışlar</p> <p>YANLIŞ: Güneş paneli üretiminde ortaya çıkan tüm atıklar çevreyi yok eder.</p> <p>DOĞRU: Kristal silikon üretiminde "silikon tetrachlorür (SiCl₄)" gibi zararlı yan ürünler oluşabilir. Ancak çoğu üretici bu maddeleri geri dönüştürerek tekrar kullanır. Uygun şekilde yönetildiğinde çevreye zarar vermez.</p> <p>YANLIŞ: Silikon tetrachlorür (SiCl₄) her zaman bitki ve hayvanları öldürür.</p> <p>DOĞRU: Silikon tetrachlorür (SiCl₄) suyla temas ettiğinde zararlı hidroklorik asit oluşturur; bu nedenle kontrolsüz dökülmesi çevreye zarar verebilir. Fakat modern tesislerde atık yönetimi sayesinde bu riskler önlenmektedir. Genellikle geri dönüştürülerek tekrar üretim döngüsüne sokulur, böylece çevreye bırakılmaz.</p>

<div data-bbox="370 432 656 560" data-label="Section-Header"> <h2>Çevresel ve Sosyal Yönetim Planı (ÇSYP)</h2> </div>	<div data-bbox="862 357 1359 615" data-label="Text"> <p>Kepez Belediyesi GES Alt Projesi kapsamında hazırlanan Çevresel ve Sosyal Yönetim Planı (ÇSYP), inşaat ve işletme süreçlerinde ortaya çıkabilecek çevresel ve sosyal etkilerin etkin bir şekilde yönetilmesi amacıyla geliştirilmiş önlem ve kontrol mekanizmalarını tanımlar. ÇSYP, yalnızca alt proje sahasını değil, aynı zamanda Enerji Nakil Hattı güzergâhını da kapsamaktadır.</p> <p>Plan kapsamında, toz emisyonları, gürültü, atık yönetimi, iş sağlığı ve güvenliği gibi risklerin azaltılmasına yönelik uygulanacak tedbirler ile bu tedbirlerin uygulanma takvimi ayrıntılı olarak belirtilmiştir. İzleme gereklilikleri, ÇSYP’de yer alan izleme tablolarında tanımlanmıştır. Buna göre;</p> <ul style="list-style-type: none"> • İnşaat aşamasında: toz emisyonları, hava kirliliği, inşaat faaliyetleri ve geçici trafik yükünden kaynaklı gürültü, atık üretimi, iş sağlığı ve güvenliği unsurları izlenecektir. • İşletme aşamasında: kimyasalların depolanması ve kullanımı, santralin yansıma ve parlama etkileri, geçim kaynakları üzerindeki etkiler, şikâyetler, topluluk çatışmaları, paydaş katılımı, iş sağlığı ve güvenliği ile iş gücü parametreleri, ÇSYP ve Paydaş Katılım Planı’nda (PKP) belirlenen şartlara uygun şekilde izlenecektir. </div>
<div data-bbox="259 812 521 896" data-label="Section-Header"> <h2>Şikâyet Mekanizması</h2> </div> <div data-bbox="264 924 812 984" data-label="Text"> <p>Paydaş Katılım Planı (PKP) kapsamında halkın bilgilendirilmesi, şikâyetlerin alınması ve değerlendirilmesi için belediye binasında şikâyet kutusu yerleştirilmiş; e-posta ve telefonla iletişim imkânı sağlanmıştır.</p> </div> <div data-bbox="264 999 812 1075" data-label="Text"> <p>Şikâyetler, Paydaş Katılım Planı’na (PKP) uygun olarak zamanında alınacak, kaydedilecek ve yanıtlanacaktır. Mekanizmanın yönetimi Kepez Belediyesi tarafından sağlanacak olup, gerekli durumlarda başvurular İLBANK’ın kurduğu bağımsız şikâyet mekanizmasına da iletililebilecektir.</p> </div>	<div data-bbox="846 806 1083 840" data-label="Section-Header"> <h2>Şikâyet Kanalları</h2> </div> <div data-bbox="849 858 912 919" data-label="Image"> </div> <div data-bbox="868 917 1029 978" data-label="Text"> <p>• E-posta: info@kepez-bld.gov.tr • Çağrı Merkezi: 444 6 007 • Adres: • Teomanpaşa Mahallesi Yeşilirmak Sokak No:4 KEPEZ/ANTALYA</p> </div> <div data-bbox="1112 858 1182 919" data-label="Image"> </div> <div data-bbox="1131 917 1395 989" data-label="Text"> <p>• İLBANK WebSite: https://www.ilbank.gov.tr/form/bilgiedirmeuluslana.html • İLBANK Telefon: +90 312 508 7979 • İLBANK E-posta: udbblig@ilbank.gov.tr ve etikudb@ilbank.gov.tr</p> </div> <div data-bbox="990 989 1117 1024" data-label="Image"> </div> <div data-bbox="1110 993 1211 1024" data-label="Text"> <p>CUMHURBAŞKANLIĞI İLETİŞİM MERKEZİ</p> </div> <div data-bbox="930 1029 1305 1115" data-label="Text"> <p>• www.cimer.gov.tr • Çağrı Merkezi: 150 • Telefon: +90 312 525 55 55 • Faks: +90 0312 473 04 04 • Resmi Yazı/Dilekçe Adresi: Türkiye Cumhuriyeti İletişim Başkanlığı Kızılirmak Mahallesi, Mevlana Bulvarı No: 144 Çankaya/ ANKARA • Türkiye Cumhuriyeti İletişim Başkanlığı’na hitaben yazılan posta</p> </div>

Teşekkürler!

Bu proje, sizlerin katkılarıyla daha sağlıklı ve topluma faydalı şekilde ilerleyecektir. Görüşlerinizi, sorularınızı, önerilerinizi ve şikâyetlerinizi bizimle çekinmeden paylaşabilirsiniz. Her görüşünüz dikkatle değerlendirilecek ve proje sürecine yansıtılacaktır. Tüm geri bildirimler kayıt altına alınacak, size gerekli dönüşler yapılacaktır. Proje boyunca sizlerle sürekli iletişimde olacağız. Katılımınız, bu projenin başarısının en önemli unsurudur.



Annex T . Stakeholder Consultation Meeting Minutes (2)

**Türkiye Public and Municipal Renewable
Energy Project (PUMREP)**

**KEPEZ MUNICIPALITY
SOLAR POWER PLANT PROJECT**

Minutes of Stakeholder Consultation Meeting (2)

Meeting Date: 30.09.2025

Meeting Time: 14:00

Meeting Venue: Kepez Municipality Council Hall

STAKEHOLDER CONSULTATION MEETING MINUTES (2)

The Kepez Municipality Solar Power Plant Project is among the subprojects under the Türkiye Public and Municipal Renewable Energy Project (PUMREP), which has been developed to support sustainable development in cities across Türkiye.

Within the scope of the subproject, the Environmental and Social Management Plan (ESMP) and the Stakeholder Engagement Plan (SEP) were prepared in compliance with Turkish environmental and social legislation, the World Bank Environmental and Social Standards, Safeguard Policies, the World Bank General EHS Guidelines, the Industry Sector Guidelines, as well as İLBANK's Environmental and Social Management System (ESMS).

As part of the stakeholder engagement and disclosure process, the first stakeholder consultation meeting was held on 18 August 2025. During the mentioned meeting, the participants expressed a high level of objection to the project. Therefore, an additional stakeholder consultation meeting has been planned and was held on 30 September 2025 at 14:00 in the Kepez Municipality Council Hall.

To inform the local community about the meeting, printed materials such as brochures and posters were prepared and displayed, and announcements were made on the Kepez Municipality website. In addition, meeting information was also communicated to the local community via SMS. The supportive documents for the disclosure process are presented in the annexes. Among these, the following photographs show the informational brochures delivered to neighborhood headmen (mukhtars) for distribution to local residents (See Annex-6: Brochures Delivered to Mukhtars for Distribution to Local People).

Meeting Summary

The Stakeholder Consultation Meeting in Kepez Municipality commenced with the opening remarks delivered by the Project Manager of the consultant firm. Following the introduction, the session was facilitated by a team composed of two environmental specialists and one social specialist, who provided detailed presentations and guided the discussions throughout the meeting. A presentation was delivered highlighting the benefits that the sub-project would bring to the municipality and the local community. The presentation is shared in Annex-8: Stakeholder Consultation Meeting Presentation.

A total of 30 participants attended the meeting, including 2 experts from İLBANK Antalya Regional Directorate, 5 representatives and members of non-governmental organizations, 8 neighborhood mukhtars, 3 local peoples and 12 municipal staff. Among the participants, 6 were female and 24 were male.

During the meeting, information was provided regarding the location of the sub-project (including the neighborhood, block, and parcel), its capacity, the equipment to be used, technical specifications, and the estimated annual energy production. It was also confirmed that all regulatory requirements had been duly fulfilled.

As part of the Stakeholder Consultation Meeting (SCM), the consultant firm presented the environmental and social risks identified in the sub-project specific Environmental and Social Management Plan (ESMP) and the Stakeholder Engagement Plan (SEP), along with the proposed mitigation measures to address these risks. In addition, the consultants provided details on the geographical and climatic characteristics of the sub-project area, their potential impacts on the project, and the results of the natural disaster risk assessments conducted for the site.

The main concern raised by the participants was the proximity of the sub-project site to residential areas. In response, it was clarified that the project area is located to the north of the settlement, on land that is not suitable for residential or agricultural use, and that potential future urban expansion is likely to occur in other directions.

Participants were also informed about the available grievance mechanisms that can be used to submit complaints, concerns, suggestions, or feedback during the pre-construction, construction, and operation phases of the sub project.

The meeting concluded with an approximately one-hour question-and-answer session. At the end of the meeting, two Deputy Mayors from Kepez Municipality attended to record and address public requests in a transparent manner. They responded to the inquiries of the local mukhtars and NGO representatives, and took notes of their suggestions and concerns.

In addition, participants were informed about the grievance mechanisms that can be used to submit complaints, concerns, suggestions, or opinions during the pre-construction, construction, and operational phases. Based on the information provided, the meeting concluded with a Q&A session and lasted approximately one hour.

Question and Answer Section

Question 1	
Name / Occupation	Demirel Neighborhood Mukhtar
Why is the project located near the settlement area?	
Answer 1	
Name / Occupation	CA Engineering
<p>The project site was selected based on technical and environmental criteria such as solar radiation potential, topography, proximity to grid connection points, and current land use.</p> <p>Its location near the settlement area allows for easier access to infrastructure and minimizes energy transmission losses.</p> <p>The sub project has been designed to maintain a safe distance from residential areas, and it complies with all national regulations regarding noise, dust, visual impact, and safety.</p> <p>All necessary environmental protection measures will be implemented to ensure that the project does not negatively affect the daily life of local residents.</p>	

Question 2	
Name / Occupation	Varsak Neighborhood Mukhtar
Can you sell the land to us?	
Answer 2	
Name / Occupation	CA Engineering
<p>The sub project area is the land that has been allocated to the investor by the relevant authorities for renewable energy generation purposes.</p> <p>Therefore, the sale or transfer of this land is not possible.</p> <p>However, the sub project fully respects property rights, local land use, and community boundaries, and all project activities will remain strictly within the designated sub project area.</p>	

Meeting Conclusion

The Stakeholder Consultation Meeting in Kepez Municipality concluded successfully with active participation from local stakeholders. The session ensured the transparent exchange of information and provided an open platform for participants to share their views and recommendations. Concerns regarding the project site and its potential impacts were addressed, and feedback was duly recorded by Kepez Municipality representatives for further consideration in the sub project process.

ATTACHMENTS

Annex- 1 Participant List

PAYDAŞ KATILIM TOPLANTISI TUTANAĞI						
TOPLANTI KONUSU	KABYEP Kepez Belediyesi (Antalya) Güneş Enerji Santrali Projesi Paydaş Katılım Toplantısı					
TOPLANTI YERİ /TARİH VE SAAT	Kepez Belediyesi Meclis Toplantı Salonu /30.09.2025 saat 14:00					
KATILIMCILAR	NO	İsim Soyisim	Meslek	Yerleşim Yeri	Telefon	İmza
	1			Kepez		
	2			Kangal		
	3			Kangal		
	4			Doğ. Bek.		
	5			" Bşk.		
	6			" " "		
	7			" " "		
	8			" " "		
	9			" " "		
	10					
	11					
	12					
	13			Ataymıç O.		
	14			Demirel O.		
	15			Gaziler O.		
	16			Zestinel O.		
	17			Yasak O.		
	18			Yasak O.		
	19			Yasak O.		
	20			Kepez Bel.		
	21			Kepez Bel.		
	22			Kepez Bel.		
	23			Kepez Bel.		
	24			Kepez Bel.		
	25			Kepez Bel.		
	26			"		
	27			Kepez Bld. O.		
	28			Kepez O.		
	29			Kepez O.		
	30			Kepez O.		
	31			Kepez O.		
	32					
	33					
	34					
	35					
	36					
	37					
	38					

Annex-2: Photo of the Stakeholder Consultation Meeting (30.09.2025)







Annex-3: Kepez Municipality Website, Announcements (19.09.2025)

Kepez Belediyesi - TÜRKİYE KAMU

https://www.kepez-bld.gov.tr/event_132_turkiye-kamu-ve-belediye-yenilenebilir-enerji-projesi-kabyep

Etkinlikler Duyurular

- Uluslararası Akdeniz Tiyatro Ödülleri
- ALTINOVA DÜDEN MAHALLESİ İMAR UYGULAMASI
- Burs Başvurusu
- TÜRKİYE KAMU VE BELEDİYE YENİLENEBİLİR ENERJİ PROJESİ (KABYEP)

Hızlı Erişim

- Evlilik İşlemleri
- Sosyal Yardım
- Belediye Hizmet Binaları
- E-İmar
- Sağlık Merkezi Randevu
- Bilim Merkezi Randevu
- Vergi İşlemleri
- Başkanla Fotoğrafım

TÜRKİYE KAMU VE BELEDİYE YENİLENEBİLİR ENERJİ PROJESİ (KABYEP) 19 Eylül 2025, Cuma - 09:33

DUYURU

GÜNEŞ ENERJİ SANTRALİ PROJESİ HALKIN KATILIMI TOPLANTISI

Güneş Enerji Santrali Projesi
Halkın Katılımı Toplantısı
Bilgilendirme Broşürü

30/09/2025
14.00
Kepez Belediyesi Meclis Salonu

Paylaş

WORLD BANK GROUP

T.C. ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI

KEPEZ BELEDİYESİ

İLBANK
TÜRKİYE'NİN YAPICI GÜCÜ

21°C Güneşli

Ara

09:50 19.09.2025

Annex-4: Kepez Municipality Announcements

Etkinlikler Duyurular


- Uluslararası Akdeniz Tiyatro Ödülleri
- ALTINOVA DÜDEN MAHALLESİ İMAR UYGULAMASI
- Burs Başvurusu
- TÜRKİYE KAMU VE BELEDİYE YENİLENEBİLİR ENERJİ PROJESİ (KABYEP)

Hızlı Erişim



- Evlilik İşlemleri
- Sosyal Yardım
- Belediye Hizmet Binaları
- E-İmar
- Sağlık Merkezi Randevu
- Bilim Merkezi Randevu
- Vergi İşlemleri
- Başkanla Fotoğrafım

TÜRKİYE KAMU VE BELEDİYE YENİLENEBİLİR ENERJİ PROJESİ (KABYEP)




19 Eylül 2025, Cuma - 09:33


**DUYURU**


**GÜNEŞ ENERJİ SANTRALİ
PROJESİ HALKIN
KATILIMI TOPLANTISI**





Paylaş



**WORLD BANK GROUP**














**T.C. ÇEVRE, ŞEHİRCİLİK VE
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI**

**KEPEZ
BELEDİYESİ**

**İLBANK**
TÜRKİYE'NİN YAPICI GÜCÜ

21°C
Güneşli

Ara



09:50
19.09.2025

Annex-5: Local Social Media Announcements



varsakhabermedya



Kepez Belediyesi

Güneş Enerji Santrali Projesi

Halkın Katılımı Toplantısı

Bilgilendirme Broşürü

30/09/2025

14:00

Kepez Belediyesi Meclis Salonu



WORLD BANK GROUP



T.C. ÇEVRE, ŞEHİRCİLİK VE
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI



9



varsakhabermedya KEPEZ BELEDİYESİ'NDEN HALKA AÇIK
GES TOPLANTISI

30 Eylül'de Meclis Salonu'nda Bilgilendirme Yapılacak

Kepez Belediyesi, Türkiye Kamu ve Belediyeler Yenilenebilir Enerji Projesi (KABYEP) kapsamında ilçeye kazandırılacak Güneş Enerji Santrali (GES) projesi ile ilgili halkı bilgilendirmek üzere önemli bir toplantı düzenliyor.

Toplantı, 30 Eylül 2025 Salı günü saat 14.00'te Kepez Belediyesi Meclis Salonu'nda gerçekleştirilecek. Katılımın herkese açık olacağı toplantıda, projenin detayları, çevresel ve sosyal etkileri ile beklenen faydaları vatandaşlarla paylaşılacak.

Vatandaşların Katılımı Teşvik Ediliyor

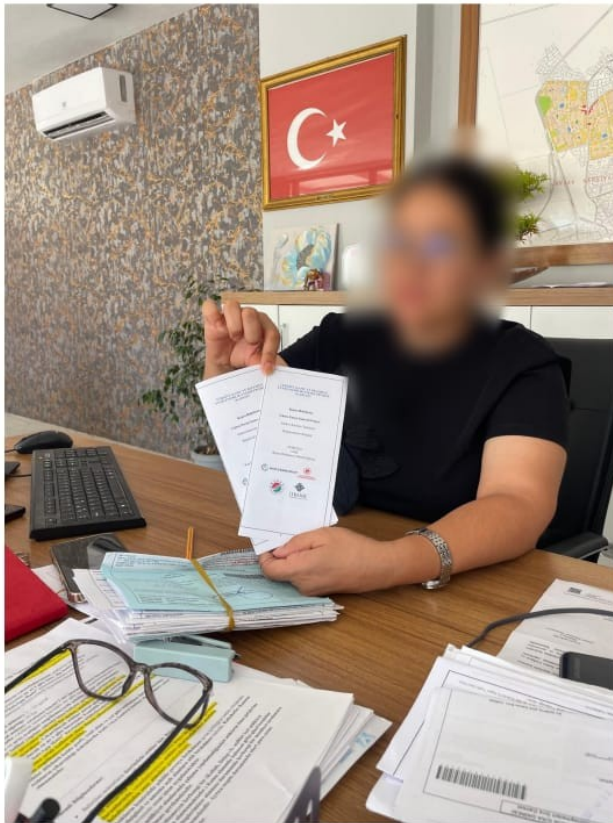
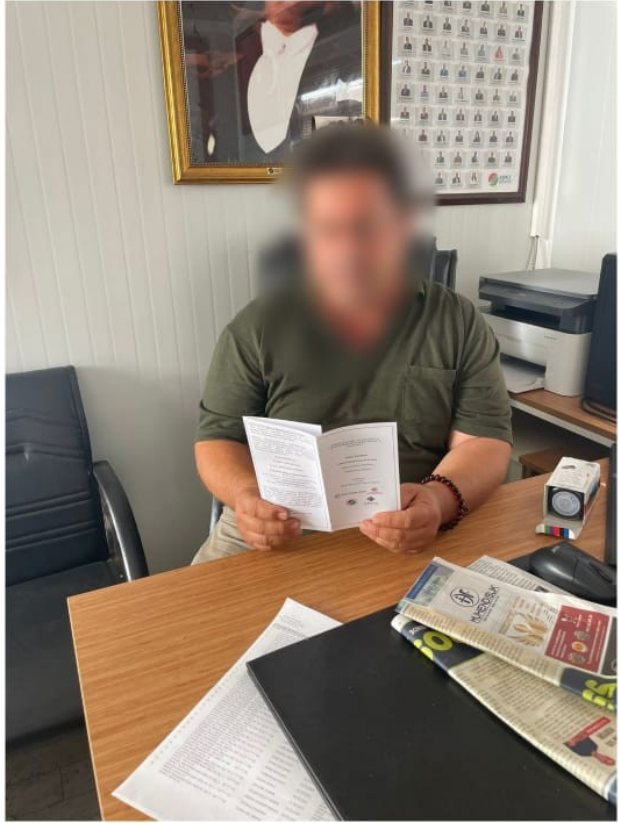
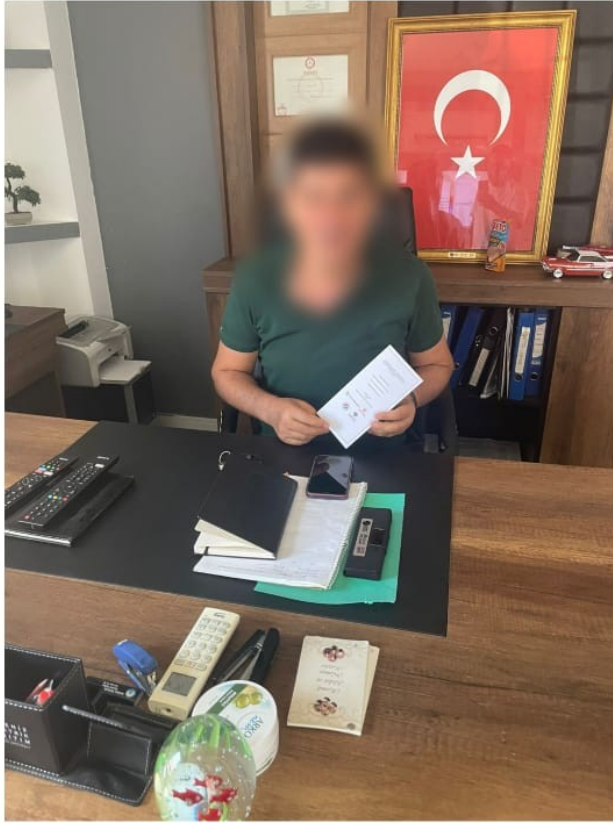
Belediye yetkilileri, projeyle ilgili tüm soruların yanıtlanacağını ve vatandaşların görüşlerini doğrudan aktarabileceğini belirtti. Ayrıca toplantı sırasında çevresel etkilerin yönetimi ve yerel halkın projeye katılım süreci hakkında bilgiler verilecek. daha az

1 saat önce

Annex-6: Brochures Delivered to Mukhtars for Distribution to Local People







Annex-7: Kepez Municipality Stakeholder Consultation Meeting Brochure

The **Kepez Municipality** Solar Power Plant Project ("Sub-project") is one of the sub-projects developed under the Türkiye Public and Municipal Renewable Energy Project (PUMREP) ("Project"), which aims to support sustainable development in cities in Türkiye. PUMREP particularly focuses on investing in sustainable urban development and promoting the use of renewable energy sources.

The sub-project, financed by the World Bank (WB) and implemented by **Kepez Municipality** through **İller Bankası A.Ş.**, seeks to contribute to local development by utilizing renewable energy in **Varsakıyavası** Neighborhood of **Korkuteli** District, Antalya Province, while also reducing electricity consumption costs. In this context, the sub-project will be constructed with a 30-year operational period. The solar power plant is expected to generate electricity through two units: GES-1 with an installed capacity of 3,168.63 kWp / 2,500 kWp and GES-2 with an installed capacity of 3,070.53 kWp / 2,500 kWp.

The expected outcomes of the sub-project are as follows:

- The sub-project will contribute to meeting part of **Kepez** District's electricity demand from solar energy and provide the district with access to clean energy.
- The sub-project will reduce dependence on fossil fuels in energy supply and support the district's economic development.
- The sub-project will contribute to **Türkiye's** efforts to comply with national and international quality standards in the renewable energy sector.
- By using clean energy sources, the sub-project will support climate change mitigation and contribute to the environmental and economic well-being of the local population.

During the recruitment process of the sub-project, priority will be given to local residents. The sub-project will be aligned not only with national

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legislation but also with the World Bank's Safeguard Policies, guidelines, standards, and best practice documents, ensuring compliance with good international practices. The sub-project will create job opportunities for the local community during both the construction and operation phases. The construction works of the solar power plant are planned to be completed within 5 months, and road closures will be avoided as much as possible. No closure of businesses in the project vicinity is expected due to construction activities.



Figure 1: Kepez Municipality SPP Project Area

An Environmental and Social Management Plan (ESMP) and Stakeholder Engagement Plan (SEP) has been developed to manage the expected impacts.

The ESMP has been prepared to monitor and assess potential environmental and social impacts and risks throughout the duration of the sub-project, as well as to implement mitigation measures for significant adverse environmental and social impacts. In addition, the ESMP defines the monitoring and supervision activities to be undertaken.

Within the scope of the ESMP, potential impacts such as soil and air quality, noise, odor, water resources, waste, traffic, ecosystem, existing natural disaster risks in the project area, and potential reflection and glare effects from the solar power plant have been identified, along with the relevant mitigation measures.

Monitoring requirements have been outlined and presented in the monitoring tables of the ESMP.

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Accordingly, during the construction phase, issues such as loss and compaction of topsoil, soil and water pollution caused by the infiltration of pollutants and chemicals into the soil and groundwater, dust emissions, noise generated during construction and from temporary traffic load, waste generation, and occupational health and safety will be monitored in compliance with ESMP requirements. During the operational phase, the storage and use of chemicals, waste management, noise, reflection and glare effects of the plant, livelihoods, complaints, community conflicts, stakeholder engagement, occupational health and safety, and labor parameters will be monitored in accordance with the provisions of the ESMP.

The expected benefits of the sub-project are as follows:

- Fossil fuels such as coal and natural gas emit high levels of carbon, harming the atmosphere and accelerating global climate change.
- Solar energy, on the other hand, is a clean and renewable source. When energy derived from natural resources is used instead of fossil fuels, carbon emissions are reduced, contributing to the prevention of the adverse effects of climate change.
- The solar power plant will be established at a distance of 50 meters from the nearest settlement; however, due to its operational principles, it poses no adverse effects on human health or daily life.

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The proximity of the sub-project site to the settlement area provides an important advantage. With shorter transmission line connections, less intervention in nature will be required, and costs will be reduced. In addition, local employment opportunities during operation and maintenance will increase, and many residents of the neighborhood will directly benefit from this project.

For security purposes, landscaping arrangements will be carried out around the plant. In order to avoid any adverse effects on the neighborhood, the measures specified in the ESMP will be implemented. The critical measures include the following:

- Waste storage areas will be established to prevent environmental pollution.
- Dust suppression activities will be carried out to reduce dust emissions.
- Low-noise equipment will be used, machinery will be maintained, activities will be conducted between 07:00–19:00, and the local community will be informed.
- Licensed drivers will be employed, speed limits and route rules will be enforced, peak hours will be avoided, and road repairs will be carried out by the contractor.
- To minimize dust, noise, and traffic impacts, modern equipment will be used, roads will be watered, trucks will be covered, and the local community will be regularly informed.
- To gather community feedback, a Grievance Mechanism will be developed separately by both the contractor and the Municipality.

The solar power plant will not only produce clean energy but also provide economic and social benefits to the neighborhood.

Kepez Municipality will establish a Grievance Mechanism to receive, resolve, and follow up on the concerns and complaints of communities affected by the sub-project. All grievances will be effectively received,

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recorded, and resolved within a predetermined timeline and according to their content. Both **Kepez Municipality** and the contractor will be responsible for the establishment and implementation of the Grievance Mechanism. In this context, the following communication channels can also be used to share expectations, opinions, suggestions, and complaints regarding the sub-project:

Kepez Municipality:

Telephone: +90 444 6 007

E-mail: info@kepez-bld.gov.tr

All internal and external stakeholders will also have the right to make use of other grievance mechanisms, such as the Presidency's Communication Center (CIMER), which is accessible to all sub-project stakeholders and is used nationwide, as an alternative and well-known channel to communicate sub-project-related complaints and feedback directly to government authorities.

- www.cimer.gov.tr
- Call Center :150
- Telephone Number: 0(312) 590 20 00

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TURKIYE PUBLIC AND MUNICIPAL RENEWABLE ENERGY PROJECT (PUMREP)

Kepez Municipality

Solar Power Plant Project

Public Consultation Meeting

Information Brochure

30/09/2025
14:00

Kepez Municipality Council Chamber



1

Kepez Belediyesi GES Projesi ("Alt-proje"), Türkiye'deki şehirlerde sürdürülebilir kalkınmayı desteklemek için geliştirilen Türkiye Kamu ve Belediye Yenilenebilir Enerji Projesi (KABYEP) ("Proje"), kapsamındaki alt projelerden biridir. KABYEP, özellikle sürdürülebilir kentsel gelişime yatırım yapılarak yenilenebilir enerji kaynaklarının geliştirilmesini amaçlamaktadır.

Dünya Bankası (DB) tarafından finanse edilen alt-proje, İller Bankası A.Ş. aracılığı ile Kepez Belediyesi tarafından yürütülecektir.

Alt-proje, Antalya İli Korkuteli İlçesi Yarsakaylası Mahallesi'nde yenilenebilir enerji kullanarak yerel kalkınmaya katkı sunmayı ve elektrik tüketim maliyetlerini azaltmayı hedeflemektedir.

Bu kapsamda alt-proje, 30 yıllık kullanım süresi ile inşa edilecektir. GES projesinin, 3.168,63 kWp / 2.500 kWc kapasiteli GES-1 ve 3.070,53 kWp / 2.500 kWc kapasiteli GES-2 olmak üzere iki üniteden elektrik üretmesi beklenmektedir.

Alt-projenin beklenen sonuçları aşağıdaki gibidir:

- Alt-proje, Kepez ilçesinin elektrik enerji ihtiyacının bir kısmının güneş enerjisinden sağlanmasına katkıda bulunacak ve ilçenin temiz enerjiye erişimini sağlayacaktır.
- Alt-proje, enerjide fosil yakıtlara olan bağımlılığı azaltacak ve ilçenin ekonomik olarak kalkınmasını sağlayacaktır.
- Alt-proje, Türkiye'nin yenilenebilir enerji kaynakları sektöründe ulusal ve uluslararası kalite standartlarına uyum çabalarına katkı sağlayacaktır.
- Temiz enerji kaynakları kullanarak iklim değişikliğiyle mücadelede adım atılmış olacak ve yerel halkın çevresel ve ekonomik refahına katkı sağlayacaktır.

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Alt-projenin işe alım sürecinde yerel halka öncelik verilecektir.

Alt-proje, ulusal mevzuatın yanı sıra DB Koruma Politikaları, yönergeler, standartlar ve en iyi uygulama belgeleri de dahil olmak üzere iyi uluslararası uygulamalarla uyumlu olacaktır.

Alt-proje, inşaat ve işletme aşamasında yerel halk için iş fırsatları yaratacaktır. GES projesinin inşaat çalışmalarının 5 ay içerisinde tamamlanması planlanmaktadır, yolların kapanmasından mümkün olduğunca kaçınılacaktır. İnşaat faaliyetleri nedeniyle proje çevresindeki işletmelerin kapanması beklenmemektedir.



Şekil 1: Kepez Belediyesi GES Alt-Proje Alanı

Beklenen etkilerin yönetimi için bir Çevresel ve Sosyal Yönetim Planı (ÇSYP) ve Paydaş Katılım Planı (PKP) geliştirilmiştir.

ÇSYP, Alt-projenin süresi boyunca olası çevresel ve sosyal etki ve risklerin izlenmesi, değerlendirilmesi ve önemli olumsuz çevresel ve sosyal etkiler için etki azaltma önlemlerinin alınması amacıyla hazırlanmaktadır.

Ayrıca ÇSYP kapsamında uygulanacak izleme ve denetim faaliyetleri de tanımlanmıştır. ÇSYP

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çalışmaları kapsamında toprak ve hava ortamları, gürültü, koku, su kaynakları, atıklar, trafik, ekosistem, projenin kurulacağı alana dair var olan doğal afet riskleri, GES kaynaklı yaşanabilecek yansımaya ve parlama etkisi gibi oluşabilecek etkiler belirlenmiş ve ilgili etki azaltma önlemleri belirtilmiştir.

İzleme gereklilikleri de ÇSYP kapsamındaki izleme tablolarında tanımlanarak sunulmuştur. Buna göre projenin inşaat aşamasında, üst toprak kaybı ve sıkışması, kirleticilerin ve kimyasalların toprağa ve yer altı sularına sızmasıyla oluşacak toprak ve su kirliliği, toz emisyonları, projenin inşası sırasında ve geçici trafik yükünden oluşacak gürültü, atık üretimi ve iş sağlığı ve güvenliği; işletme aşamasında ise kimyasalların depolanması ve kullanımı, atıklar, gürültü, santralin yansımaya ve parlama etkisi, geçim kaynakları, şikâyetler, topluluk çatışmaları, paydaş katılımı, iş sağlığı ve güvenliği ve işgücü parametreleri ÇSYP' de belirlenen şartlara uygun olarak izlenecektir.

Alt-projenin beklenen faydaları aşağıdaki gibidir:

Kömür ve doğalgaz gibi fosil yakıtlar, yüksek karbon salımlarıyla atmosfere zarar verir ve küresel iklim değişikliğini hızlandırır.

Güneş enerjisi ise temiz ve yenilenebilir bir kaynaktır. Fosil yakıtların yerine doğal kaynaklardan elde edilen enerji kullanıldığında, karbon salımı azalır ve iklim değişikliğinin olumsuz etkilerinin önlenmesine katkı sağlanır.

Güneş enerjisi santralinin kurulacağı alan, yerleşim yerine 50 metre mesafede olmakla birlikte santralin çalışma prensipleri gereği sağlığa ve günlük yaşama herhangi bir olumsuz etkisi bulunmamaktadır.

4

alanlarını tahrip etmeyecek şekilde konumlandırılmıştır.

Yerleşim alanına yakın olması ise önemli bir avantaj sağlamaktadır. Elektrik hatlarının daha kısa mesafeden bağlanması sayesinde doğaya daha az müdahale edilir ve maliyet düşer. Bunun yanı sıra, bakım ve işletme sırasında yerel istihdam imkânı artacak, mahalleden birçok kişi bu projeden doğrudan faydalanacaktır.

Santralin etrafında güvenlik amacıyla çevre düzenlemesi yapılacaktır. Bu düzenlemenin mahalleye her hangi bir olumsuz etkisi olmaması için ÇSYP'de belirtilen önlemler alınacaktır. Bu önlemler arasında;

- Çevre kirliliğinin önlenmesi için atık depolama alanları yapılacaktır.
- Toz emisyonlarının azaltılması için toz bastırma faaliyetleri yürütülecektir.
- Düşük sesli ekipman kullanılacak, makinelerin bakımı yapılacak, çalışmalar 07:00–19:00 arasında yürütülecek, mahalle halkı bilgilendirilecektir.
- Ehliyetli sürücüler çalıştırılacak, hız sınırları ve güzergâh kuralları uygulanacak, yoğun saatlerden kaçınılacak, yolların onarımı yüklenici tarafından yapılacaktır.
- Toz, gürültü ve trafik etkilerini azaltmak için modern ekipman kullanılacak, yollar sulanacak, kamyonlar brandalı olacak ve mahalle halkı düzenli bilgilendirilecektir.
- Halkın görüşlerini almak amacıyla Şikâyet Mekanizması, hem yüklenici hem de belediye tarafından ayrı ayrı geliştirilecektir.

Yer almaktadır.

Güneş enerji santrali yalnızca temiz enerji üretmekle kalmayacak, aynı zamanda mahalleye ekonomik ve sosyal faydalar da sağlayacaktır.

Kepez Belediyesi, Alt-projeden etkilenen toplulukların endişelerini ve şikâyetlerini almak, çözmek ve takip

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etmek için bir **Şikâyet Mekanizması** kuracaktır.

Tüm şikâyetler, önceden belirlenmiş bir zaman çizelgesi içinde ve içeriklerine göre etkin bir şekilde alınacak, kaydedilecek ve çözülecektir.

Şikâyet Mekanizması'nın kurulmasından ve uygulanmasından Kepez Belediyesi ve yüklenici firma sorumlu olacaktır. Bu kapsamda proje ile ilgili beklenti, görüş, öneri ve şikâyetlerin paylaşılması için aşağıda verilen iletişim kanalları da ayrıca kullanılabilir:

Kepez Belediyesi:

Telefon: +90 444 6 007

E-mail: info@kepez-bld.gov.tr

İLBANK Şikâyet Mekanizması

Web Sitesi:

www.ilbank.gov.tr/form/bilgiedinmeuluslararası

E-posta: uidbilgi@ilbank.gov.tr

pybsosyal@ilbank.gov.tr

Tel: +90 312 508 79 79 / +90 312 508 79 80

Tüm paydaşlar, alt-projeyle ilgili şikâyetlerini ve geri bildirimlerini doğrudan devlet yetkililerine iletmek için alternatif ve iyi bilinen bir kanal olarak tüm proje paydaşlarının erişimine açık olan ve ülke çapında kullanılan Cumhurbaşkanlığı İletişim Merkezi (CIMER) gibi diğer şikâyet giderme mekanizmasından da yararlanma hakkına sahiptir.

- www.cimer.gov.tr

- Çağrı merkezi:150

- Telefon numarası: 0(312) 590 20 00

6

TÜRKİYE KAMU VE BELEDİYE YENİLENEBİLİR ENERJİ PROJESİ (KABYEP)

Kepez Belediyesi

Güneş Enerji Santrali Projesi

Halkın Katılımı Toplantısı

Bilgilendirme Broşürü

30/09/2025

14:00

Kepez Belediyesi Meclis Salonu



WORLD BANK GROUP



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Annex-8: Stakeholder Consultation Meeting Presentation



TÜRKİYE KAMU VE BELEDİYE YENİLENEBİLİR ENERJİ PROJESİ

KABYEP

KEPEZ BELEDİYESİ GES PROJESİ

KABYEP kapsamında, Kepez Belediyesi sınırlarında gerçekleştirilen GES-1 ve GES-2 projeleri için Kepez Belediyesi tarafından oluşturulan, GES-1 projesinin toplam kapasitesi 3.163,63 kWp / 3.800 kWp, GES-2 projesinin toplam kapasitesi ise 3.020,83 kWp / 3.680 kWp olarak belirlenmiştir. Toplamda 6.184,46 kWp kapasiteye sahip bu projelerden yararlanarak, bölgedeki enerji ihtiyacı karşılanacak ve sürdürülebilir enerjiye geçiş sağlanacaktır.

İletim Hattı
KEPEZ BELEDİYESİ / ÇİĞİRCİLER
GİRİŞİMİ / YATIRIMCI
Çevre, İklim ve Enerji Bakanlığı



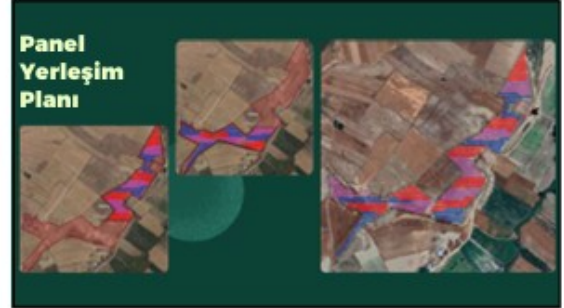
Amaç

Bu toplantının amacı, Kepez Belediyesi tarafından hazırlanan ve onaylanan Kepez Belediyesi GES-1 ve GES-2 projeleri hakkında ilçe düzeyinde vatandaşları bilgilendirmek, projenin çevreye ve bölgeye etkilerini anlamak ve projenin ilçe sınırlarında uygulanması için gerekli olan izin ve onayların alınmasıdır.



Proje Konumu

Proje, Antalya İli, Korkuteli İlçesi, Varsakçıyusu Mahallesi 159 ada 161 parsel sınırları içerisinde toplam 15,78 hektarlık bir alanda kurulacaktır. (GES-1 ve GES-2). Her bir ünitenin kurulu gücü yaklaşık 2.500 kWp'dir. Santralin ekonomik ömrü yaklaşık 30 yıl olarak öngörülmektedir.



Panel Yerleşim Planı



Enerji Nakil Hattı

Açık projeksiyonla yapılacak Enerji Nakil Hattı güzergahı, Üçüncü 101 ada 20, 21, 76, 80 ve 82 numaralı parseller, 158 ada 106, 112, 161 numaralı parseller ve 162 ada 2 ve 4 numaralı parsellerden oluşmaktadır. Bu parsellerin bulunduğu ve 1000m²'lik alanlar (Aldatıcı 500m²) sınırlarında yerleştirilecektir.



Projenin Kazançları

9.564 MWh Yıllık Üretim	5.927 ton Karbon Salımının Engellenmesi	3900 hane Elektrik Tüketimine Eşdeğer
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Proje Hakkında Endişeler



- Projenin risksiz olduğuna inanıp inanmaması
- Yer seçimini
- Elektronik tasarrufunun değerlendirilmesi
- Veri iletilirken sağlanması

Proje iklim değişikliğine sebep olur mu ?

Yer Seçimini Sebepleri

- **Karşuya Ak Alan Kullanımı:**
Sırtta, karışuya ak alan ve termal eleveği olmayan bir paradede kurulacaktır. Böylece termal anaride korunacak, kullanılmayan bir alan değierini deşierilecektir.
- **Enerji Akışında Avantaj**
İlindü çizimi bölgede trafık kapandıı emirde, G55'in bu alanda kurulumu sayesinde çışın mekânı alabileceğini öngörür. Bu da bölgeden enerji akışının daha güvenli ve sürdürülebilir bir şekilde karlılaşmasını katkı sağlayacaktır.
- **Doğal Kaynakların Avantajı**
Bölgenin iklim ve yükselişü, güneş ışınlarından yüksek verim alınmasını imkân tanımlar. Bu sayede sırtta, ayrı kapandıedeki büyük bölgeden daha fazla elektrik üretilecek, hem çevreye hem de ekonomiye katkı sağlayacaktır.
- **Zaman ve Maliyet Kazanması**
Karışuya ak bu alanda yapılacak yatırım, hem zaman hem de maliyet açısından tasarlı sağlayacaktır.

Elektrik tasarrufunun değerlendirilmesi

Kıyaz Belediyesi tarafından kurulacak Güneş Enerji Santrali ile birlikte elektrik giderlerinde önemli bir tasarruf sağlanacaktır.

Elde edilecek bu tasarruf ile:

- Yol, kaldırım ve altyapı çalışmalarının artırılması mümkün olacaktır.
- Park, bahçe ve çevre düzenlemelerinin hızlandırılması sağlanacaktır.
- Teravik ve sosyal hizmetlerin daha etkin şekilde yürütülmesi mümkün olacaktır.
- Çocuklarımız ve geleceğimizi için daha temiz ve sağlıklı bir çevre sağlanacaktır.

Yerel İstihdama Öncelik verilmesi

Proje riskleri ve önlemler

Kapaz Beldeye GES Ahi Projesi için hazırlanan Çevresel ve Sosyal Yönetim Planı (ÇSYP), hem inşaat hem de işletme sürecinde ortaya çıkabilecek çevresel ve sosyal etkilerin kontrol altına alınması amacıyla hazırlanmıştır. Bu plan yalnızca mevcut durumu değil, gelecekte oluşabilecek durumları da kapsamaktadır. Bu riskler ve önlemlerin bazılarını aşağıdaki gibidir:

İnşaat Aşamaları

- Torun ve Hava Kirliliği:** İnşaat sırasında oluşabilecek tozun azaltılması için düzenli sulama yapılması, tozla mücadele saygın araçlar kullanılmalıdır.
- Gürültü:** Çalışmalar gündüz saatleriyle sınırlanmalıdır, gürültülü ekipmanların bakımının düzenli yapılması.
- Akıl Yönelimi:** İnşaat sırasında aşırı trafik, işleri fermatara yerleştirilmelidir, tehlikeli alımlar güvenli alımlara dönüştürülmelidir.
- İklimi ve Su Güvenliği:** Çalışmalar için gerekli konutları korumak için sulama, gübreleme ve suyun tahliyesi kullanılmalıdır.
- Trafik Güvenliği:** Şantiye çevresinde trafik yönlendirilmesi yapılmalıdır, işçilerin ve suyun tahliyesi kullanılmalıdır.

İşletme Aşamalarında

- **Kırsiyatlı Yönetim:** Kullanılacak kırsiyatlılar için bakım materyalleri güvenli depolarda saklanacak ve kontrolü kullanılacak.
- **Tarımata ve Parlama Etkileri:** Parlama yerleşim açısı uygun şekilde ayarlanarak çimleme dışı parlama etkileri en aza indirilecektir.
- **Topluma Üzerindeki Etkiler:** Şikâyetlerin alınması ve çözüm için şikâyet mekanizması işleyecek, toplulukta düzenli iletişim kurulacaktır.
- **İç Sağlığı ve Güvenliği:** İşletme süresince kalıpların güvenliği için periyodik ölçümler, tatbikatlar ve denetimler yapılacaktır.
- **Paydaş Katılımı:** Halon görüş ve önerilerinin alınması için düzenli toplantılar ve bilgilendirme faaliyetleri sürdürülecektir.

Şikâyet Mekanizması

Paydaş Katılımı Planı (PKP) kapsamında halon bilgilendirilmesi, şikâyetlerin alınması ve değerlendirilmesi için belediye binasında şikâyet kutusu yerleştirilmiş, e-posta ve telefonla iletişim imkânı sağlanmıştır.

Şikâyetler, Paydaş Katılımı Planı'na (PKP) uygun olarak zamanında alınacak, kaydedilecek ve yanıtlanacaktır. Mekanizmanın yönetimi Kepez Belediyesi tarafından sağlanacak olup, gerekli durumlarda başvurular İLBANK'ın kurduğu bağımsız şikâyet mekanizmasına da iletilbilecektir.

Şikâyet Kanalları

Kepez Belediyesi

- E-posta: info@kepez-bld.gov.tr
- Çağrı Merkezi: 444 6 007
- Adres: Teomanpaşa Mahallesi Yeşilirmak Sokak No:4 KEPEZ/ANTALYA

İLBANK

- İLBANK Website: <https://www.ilbank.gov.tr/form/bilgiedinmeuluslararası>
- İLBANK Telefon: +90 312 508 7979
- İLBANK E-posta: ukdbilgi@ilbank.gov.tr ve etikuidb@ilbank.gov.tr

CİMER

- www.cimer.gov.tr
- Çağrı Merkezi: 150
- Telefon: +90 312 525 55 55
- Fax: +90 312 473 64 94
- Resmi Yazı/Dilekçe Adresi: Türkiye Cumhuriyeti İletişim Başkanlığı Kızılırmak Mahallesi, Mevlana Bulvarı No: 144 Çankaya/ ANKARA
- Türkiye Cumhuriyeti İletişim Başkanlığı' na hitaben yazılan posta

Teşekkürler!

Bu proje, sizin katkılarınızla daha sağlıklı ve topluma faydalı şekilde ilerleyecektir. Görüşlerinizi, sorularınızı, önerilerinizi ve şikâyetlerinizi bizimle çekinmeden paylaşabilirsiniz. Her görüşünüz dikkatle değerlendirilecek ve proje sürecine yansıtılacaktır. Tüm geri bildirimler kayıt altına alınacak, size gerekli dönüşler yapılacaktır. Proje boyunca sizlerle sürekli iletişimde olacağız. Katılımınız, bu projenin başansının en önemli unsurudur.