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WORLD BANK RENEWABLE ENERGY LOAN PREPARATION DOCUMENT - PROJECT IDENTIFICATION DOCUMENT (PID) CONSULTANCY SERVICES

GREME MUNICIPALITY SOLAR POWER PLANT PROJECT (643.2 kWe) ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

JANUARY 2024





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Göreme Municipality Solar Power Plant

Page | II

DOCUMENT CONTROL PAGE

File Name:	ESMP(EN) GES Göreme 15012024 v5
Prepared by	Dođukan ARIKAN
Date	15 January 2024
Version	Version 05
Document status:	Final
Use of the document:	World Bank, Ilbank

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TABLE OF CONTENTS

LIST OF FIGURES	IV
LIST OF TABLES	V
TABLE OF ANNEXES	VI
ABBREVIATIONS.....	VII
EXECUTIVE SUMMARY.....	8
1. PROJECT DESCRIPTION	10
2. ENVIRONMENTAL AND SOCIAL SCREENING	13
3. LEGAL AND INSTUTIONAL FRAMEWORK.....	17
3.1. National Legal Framwork.....	17
3.2. International Legal Framework.....	17
4. BASELINE	19
4.1. Project Area	19
4.2. Natural and Cultural Resources	20
4.3. Project Land Use Rights.....	21
4.3.1. Land Acquisition	22
4.4. Socioeconomic Situation	23
5. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN	26
5.1. Mitigation Plan	27
5.2. Monitoring Plan.....	36
6. STAKEHOLDER ENGAGEMENT	45
6.1. Stakeholder Analysis	45
6.2. Previous Stakeholder Engagement Activities.....	45
6.3. Stakeholder Identification and Analysis.....	45
6.4. Stakeholder Engagement Program	46
6.5. Roles and Responsibilities	47
6.6. Grievance Mechanism.....	48
6.7. Monitoring and Reporting	50
7. CONCLUSION.....	51



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LIST OF FIGURES

Figure 1. Project Area.....	11
Figure 2 Location of Nevşehir Province and Merkez District	19
Figure 3. Turkey's Solar Energy Potential Atlas	20
Figure 4: SPP Area and Grid Connection	22
Figure 5: Land Acquisition Required Part of Energy Transmission Line.....	23
Figure 6: Engagement Diagram	46
Figure 7: Grievance Mechanism Flow Chart	50



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LIST OF TABLES

Table 1. Project Area Corner Points Coordinates (ED50).....	21
Table 2. Fourth Tier Developed Provinces	24
Table 3. SEGE Indices of Nevşehir Districts	25
Table 4. Mitigation Plan of the Project.....	27
Table 5. Monitoring Plan of the Project	36
Table 6. List of Stakeholders	45
Table 7. Responsibilities of Key Actors/Stakeholders in SEP Implementation	47



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TABLE OF ANNEXES

Annex 1	The Land Allocation Letter
Annex 2	Consent Letter and The Deed of Property with Easement Right
Annex 3	Land Acquisition Informaiton Table
Annex 4	Environmental and Social Screening Form



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ABBREVIATIONS

EDAŐ	Electricity Distribution Joint Stock Company
EIA	Environmental Impact Assessment
ESMP	Environmental and Social Management Plan
ES	Environmental and Social
ESS	Environmental and Social Screening
EU	European Union
kWh	Kilowatt-hour
MoLSS	Ministry of Labor and Social Security
MoEUCC	Ministry of Environment, Urbanization and Climate Change
PV	Photovoltaic
SPP	Solar Power Plant
SCP	Sustainable Cities Project
SCP-II	Sustainable Cities Project -II
SCP-II -AF	Sustainable Cities Project -II Additional Financing
SPP	Solar Power Plant
TEİAŐ	Turkish Electricity Transmission Joint Stoc Company
TUİK	Turkish Statistical Institute
USD	United States Dolar
WB	World Bank



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EXECUTIVE SUMMARY

Göreme Municipality Solar Power Plant is a sub project of Sustainable Cities Project – II – Additional Financing which will be financed by the World Bank in order to support sustainable development of Türkiye. Since the project will be financed by the World Bank, the project shall comply with both local Environmental Legislation and World Bank's Safeguard Policies.

Göreme Municipality Solar Power Plant Project has installed capacity of 643.2 kWe / 826.2 kWp and total project area of 1.331 ha. The project will help Göreme Municipality to generate clean energy and meet some of its energy needs in a environmental way. The project will be implemented in Nevşehir Province of Göreme Town.

The ownership of the area belongs to state treasury and the are is allocated to Göreme Municipality as SPP project area. The land allocation letter is given in Annex 1. However, energy transmission was passing through private land which is block 0 lot 1718. Easement right of that part of the energy transmission line recently completed, so no additional land acquisition is required.

After environmental and social screening the project is classified as **Category B Low**, so simplified environmental and social management plan has been envisaged and this report has been prepared accordingly.

Potential environmental and social impacts during the construction and operation have been pointed out and mitigation measures and monitoring requirements have been set with this report. Main findings of the report are briefly mentioned in following sections and in detail in following sections.

The waste generation due to the project causes some risks to the environment and human health and risk of this has been determined as medium before the mitigation. To eliminate this risk, wastes will be collected and separated and stored in a safe storage area and no contamination or spill will be let and related regulations will be followed. After these mitigations, importance of the risk will be low.

Due to transportation activities, exhaust emissions may increase. To mitigate this impact, routine maintenance of the machinery and equipment will be performed and related regulations will be followed. The fuel to be used in the project will be in accordance with the standards. After these mitigation measures, the impact of this parameter will be low.

Workers employed by third parties and supply chain will have its own Environmental and Social Management System (ESMS) to ensure that they operate in a manner consistent with working conditions requirements.

For the risk of temporary worker flows and risk of social conflict Impacts on community dynamics, the work's contractor will prepare a Workforce Management Plan and minimize the risk.



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Inadequate worker health and safety conditions is another risk to be mitigated. The work site and workers will be ready to any emergency situation and any health and safety issue. Working conditions of the workers will be inline with the local legislations.

In case of emergency response, an Emergency Preparedness and Response Plan will be prepared by the contractor and in emergency, this plan will be followed.

To minimize greenhouse gas emissions, all machinery and equipment will be optimally utilized to reduce GHG. Regular maintenance of the equipment will be carried out, and staff will be trained related to energy efficiency.

All stakeholders will be communicated, and they will be informed about the project. A clear grievance mechanism will be prepared, and information will be publicized. All details of victims of Gender Based Violence (GBV) and Sexual Exploitation and Sexual Exploitation and Abuse/Sexual Harassment (SES/ST) will be kept strictly confidential in the Complaint Registration Database.



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1. PROJECT DESCRIPTION

In May 2019, the World Bank's Board of Executive Directors approved financing of 500 million euros (USD 560.6 million equivalent) to support sustainable development in Turkish cities. A Loan Agreement of 500 million euros for Sustainable Cities Program-II Additional Financing (SCP-II-AF) was signed between the World Bank and ILBANK on July 10th, 2019.

The loan took effect on November 5th, 2019. It aims to meet municipal needs in infrastructure, zero waste, transportation, energy efficiency, renewable energy, municipal social services, disaster recovery, urban renewal, and restoration sectors. SCP-II-AF aims to assist Municipalities and Administrations in financing priority investments for infrastructure service requirements stipulated in the Metropolitan Municipality Law No. 6360 and amended in December 2012. SCP-II-AF aims to improve the planning capacity of and access to targeted municipal services in participating municipalities and utilities.

In this context, Göreme Municipality has planned to implement Göreme Municipality Solar Power Plant with the finance from SCP-II-AF to generate clean energy to meet some needs of the Municipality within borders of Nevşehir Province of Türkiye.

The project is to generate electricity by using solar energy, which is a renewable energy source, together with solar energy panels with an installed power of 643.2 kWe / 826.2 kWp to be installed on the land, thus reducing carbon emissions.

The project will be realized in the area currently designated as Dry Marginal Agricultural Land, registered in Göreme Town, block 0, lot 9670, and owned by Göreme Municipality. However, in new upper scale plan, the area is designated as renewable energy facility land and will be updated in new urban plan as well. The land allocation of the area is given in Annex 1. The map of the project area is given in the figure below.



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Figure 1. Project Area

Project horizon is 30 years and it is expected that the project will generate 1,372,251 kWh electricity annually which may reduce over time due to nature of solar panels with efficiency decrease. The generated electricity will be supplied to national grid and electricity consumption of the municipality will be netted from the generation amount and excess amount will be sold, if any.

Göreme Municipality Solar Power Plant Project is not included in the Annex 1 and Annex 2 lists of the "REGULATION ON ENVIRONMENTAL IMPACT ASSESSMENT" published in the Official Gazette dated 29.07.2022 and numbered 31907, since its installed capacity is less than 1 MW and the SPP area is less than 2 ha, it is considered out of scope of EIA regulation.



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For the risk categorization, the project has been evaluated in accordance with World Bank Operational Policies and the E&S Project category of Göreme Municipality SPP project has been determined as **Category B Low**.



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2. ENVIRONMENTAL AND SOCIAL SCREENING

General Assessment of the Environmental and Social Processes

According to the Environmental and Social Framework Document, investments to be realized under the additional financing projects of the ESP-II require an integrated assessment of the borrower country's Environmental Impact Assessment Regulation for the ESP and the World Bank's Operational Policy on Environmental Assessment (OP 4.01).

In accordance with WBG OP 4.01 standards, relevant WBG Environmental, Health and Safety Guidelines (WBG ESGPs) will be applied to the project. Where the requirements in Turkey differ from the levels and measures presented in the ESGPs, the more stringent one will be applied in the project specifications.

The application of E&S processes to subprojects starts with a screening process:

- (i) Initial E&S risk assessment by Municipalities/ Enterprises as part of sub-projects to be proposed for financing, taking into account both the national legal framework and the World Bank E&S risk categorization
- (ii) Review and risk categorization of the proposed sub-projects by ILBANK's E&S team,
- (iii) ILBANK PIU to consult with the World Bank's E&S team for final decision on the E&S risk categorization (Category A, B and C) of the subprojects.

Proposed subprojects will be assessed using screening forms by ILBANK PIU in consultation with the World Bank.

The results of the National EIA Process will be another source to determine the impact significance of the project as well as to determine the level of sensitivity for the Project Impact Area (e.g. presence of natural habitats, projected areas, etc.).

The environmental and social risk classification should consider relevant potential risks and impacts such as

- Type, location, sensitivity and scale of the Subproject.
- The nature and magnitude of potential E&S risks and impacts, including impacts on Natural Habitats; the nature of potential risks and impacts (e.g. whether they are irreversible, unprecedented or complex); possible mitigation measures, taking into account resettlement activities, the presence of vulnerable groups/people and the mitigation hierarchy;
- The capacity and commitment of the Sub-Borrower to manage such risks and impacts in a manner consistent with the E&S OPs, including the country's policy, legal and institutional framework; the laws, regulations, rules and procedures applicable to the investment sector; the technical and organizational capacity of the Sub-Borrower, the Sub-Borrower's past project implementation history, and the financial and human resources available for the management of the Sub-project; and



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- Other risk areas that may be relevant to the delivery of E&S mitigation measures and outcomes depending on the specific Subproject and the context in which it is developed, including the nature of the proposed mitigation and technology,

Under the World Bank's Operating Policy on Environmental Assessment (O.P. 4.01), projects are classified into the following categories according to the degree of their potential impact on the environment:

- Category A, proposed project is classified as Category A if it may have significant adverse environmental impacts,

- Category B, (Low and High) A proposed project is classified as Category B if its impacts on the environment are typically site-specific, reversible in nature, less adverse than the impacts of sub-projects under Category A, and mitigation measures can be more easily designed.

Although not mentioned in the OP, in practice Category B projects can be divided into Low B and High B projects. Projects in the High B category have relatively more impacts and include more mitigation measures than projects in the Low B category, but these impacts and mitigation measures are not significant enough to be classified as Category A.

- Category C, A proposed project is classified as category C if it is likely to have minimal or no environmental impacts.

As a result of the Screening Study, E&S documents will be prepared for Category A and B in accordance with WB requirements.

A few studies are required to identify and manage the environmental and social impacts and risks of subproject activities. These studies are described under the heading of general assessments. The first of these steps is the E&S Screening study. Information on the screening studies conducted for the Project and determination of the risk category are described below.

Assessment of the National Environmental Impact Assessment (EIA) Regulation:

The results of the EIA process in Turkey are another source for determining the significance of the impacts of the Project and the sensitivity level of the Project Impact Area (e.g. presence of natural habitats, protected areas, etc.).

The National Environmental Impact Assessment (EIA) Regulation November 25, 2014/29186 is in generally aligned with the 1985 EC EIA Directive (85/337/EEC) and its 2014 amendments (2014/52/EU).

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Purpose, Methodology, and Risk Categorization of the Environmental and Social Screening Study:

Subprojects have a preliminary screening requirement based on three categories: the nature of the project, the size of the project, and the location of the project, which are sensitive area criteria. Based on this assessment, sub-projects with potentially significant Environmental and Social (E&S) issues are identified at an early stage for detailed E&S impact assessment.

The E&S screening of the Project was conducted through face-to-face meetings and site visits, utilizing the Environmental and Social Screening Form (ESSF) and its annexes, which include relevant questions to identify the expected E&S impacts of the subproject. During face-to-face meetings and site visits,

- The Project's E&S legacy and obligations have been assessed,
- The eligibility of the sub-project in terms of PAD Criteria and Exclusion List has been reviewed,
- The relevant sub-headings of the ESMF have been checked,
- E&S issues included in the pre-feasibility report of the sub-project were reviewed,
- Potential adverse risks and impacts have been assessed, and
- The environmental and social risk category of the subproject was determined according to the WB Operating Policy on Environmental Assessment (O.P. 4.01) and the Project ESMF.

The E&S Screening is performed and E&S Screening Form is provided in Annex 4.

Potential E&S risks, positive and adverse E&S impacts of each component should be discussed, and any red flag E&S issues should be identified/provided.

The E&S Project category of the Göreme Municipality SPP project has been determined as **Category B Low** according to the World Bank's Operational Policy on Environmental Assessment (O.P. 4.01) and the scope of the Project's ESMF.

Environmental risks associated with the subproject include the following assessments,

- The impacts of short-term stripping, excavation and cover, land preparation and excavation works (low scale construction activities) will be temporary and manageable,
- The contribution to air pollution and noise pollution will be temporary and manageable with the implementation of necessary mitigation measures,
- Wastewater generated by workers during the construction phase will be discharged to the existing municipal sewerage system.



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- There will be no significant adverse impact on surface water and groundwater,
- There are no sensitive ecosystems and habitats close to the construction area; and
- During construction activities, waste such as oily gloves, rags, etc. and non-hazardous waste such as cable fragments, some plastics, etc. are likely to be generated. Waste will be disposed of in accordance with national regulations and World Bank Environmental, Health and Safety (EHS) Guidelines.

The social assessments associated with the sub-project include the following assessments,

- The project will not create an overflow of labor,
- The effects will not differ for men and women,
- There are no sensitive, protected, ecologically important or archaeological and natural protected areas within or near the project area and the project environmental impact area.



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3. LEGAL AND INSTUTIONAL FRAMEWORK

3.1. National Legal Framwork

The main sources of the law of the Republic of Turkey are the constitution, laws, decree laws (KHK), international treaties, statutes and regulations. In Turkey, there are many laws and decrees within the framework of the duties, powers and responsibilities of institutions regarding renewable energy sources, and there are many regulations, communiqués and circulars regulating their implementation. The laws to be considered during the design, construction and operation of the project are listed below

- 2872 numbered Environmental Law
- 2863 numbered Law on Conservation of Cultural and Natural Assets
- 2627 numbered Energy Efficiency Law
- 6446 numbered Energy Market Law
- 5346 numbered Law on Use of Renewable Energy Resources for the Purpose of Electricity Generation
- 6831 numbered Forest Law
- 167 numbered Groundwater Law
- 4857 numbered Labor Law
- 5403 numbered Soil Conservation and Land Use Law
- 6331 numbered Occupational Health and Safety Law
- 5510 numbered Social Insurances and General Health Insurance Law
- 2942 numbered Expropriation Law

In addition to these laws, all regulations regarding air quality control and management environmental management permits and plans, noise control, soil quality control and management, waste management, water control management, nature protection, health and safety will be complied with. As a result, the following regulations will be considered.

- Regulation on Unlicensed Electricity Production in the Electricity Market published in the Official Gazette No. 30772
- Unlicensed Electricity Production in the Electricity Market published in the Official Gazette numbered 32120
- Regulation on Solar Energy Based Electricity Generation Plants published in the Official Gazette No. 27969

3.2. International Legal Framework

In the scope of the International Legal Framework, World Bank Policies that apply to the project is listed below.



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- WB Operational Policy on Environmental Assessment Policy OP 4.01
- WB Operational Policy on Natural Habitats OP/BP 4.04
- WB Operational Policy on Physical Cultural Resources OP/BP 4.11
- WB Operational Policy on Involuntary Resettlement OP 4.12
- WB Operational Policy on International Waterways OP 7.50.

For the project, only OP 4.01 is expected to be applicable.

Apart from that the project is expected to be compliant with following policies, conventions or objectives:

- Paris Agreement
- United Nations Sustainable Development Goals – Goal 7 and 13
- ILO Conventions



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4. BASELINE

4.1. Project Area

Nevşehir province is a province located in the Central Anatolia Region of the Republic of Turkey. According to 2010 TUIK data, there are 8 districts, 15 towns and 153 villages together with the central district in the province. Nevşehir consists of 8 districts which are Acıgöl, Avanos, Derinkuyu, Gülşehir, Hacıbektaş, Kozaklı, Ürgüp and Nevşehir are the central districts. Nevşehir is located between 38° 12' and 39° 20' north latitudes and 34° 11' and 35° 06' east longitudes. The surface area of Nevşehir province is 5,485 km². The city surrounded by Nevşehir, Kayseri and Yozgat from the east; Niğde from the south; Aksaray, Kırşehir from the west; Yozgat provinces from the north.

Göreme is a Town of Center District of Nevşehir Province where the project will be realized.

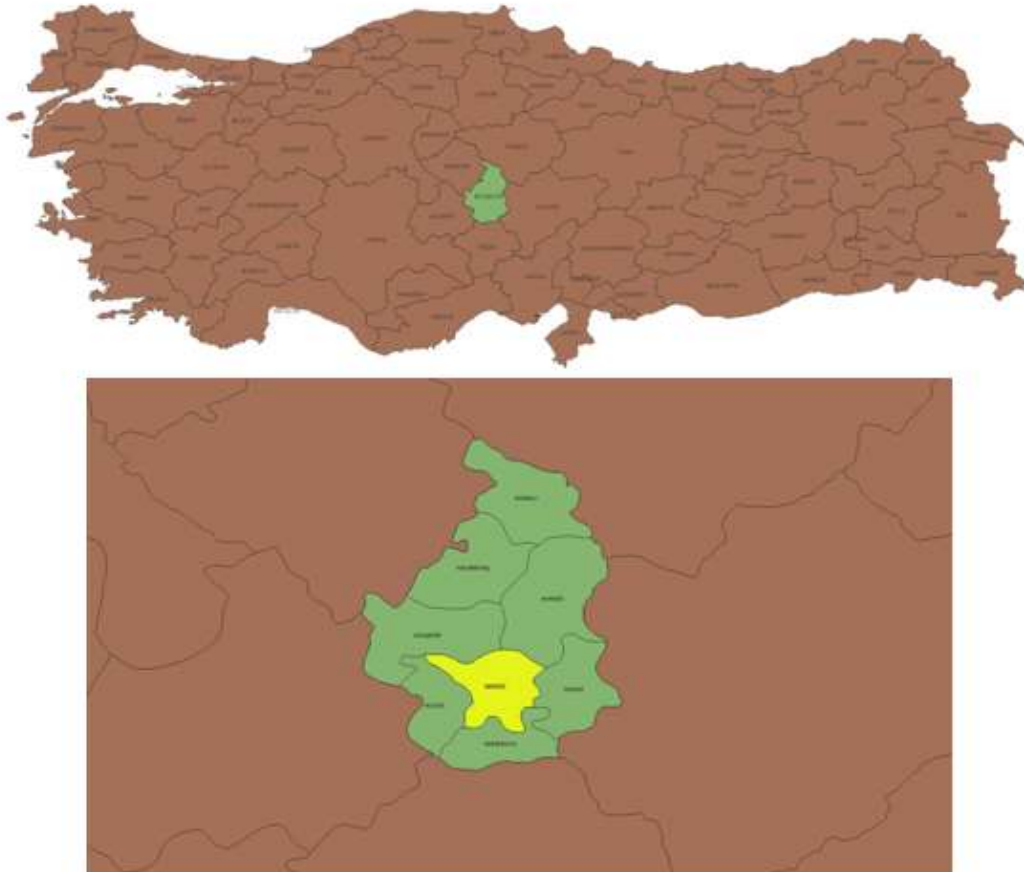


Figure 2 Location of Nevşehir Province and Merkez District



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When the global radiation values of Nevşehir province announced by the Solar Energy Potential Atlas (SEPA) are examined, it is seen that the highest value occurs in July with 6.71 kWh / m² - day. With a value of 1.68 kWh / m² - day, the month in which Nevşehir benefits from the least global radiation is December. When the sunshine duration of Nevşehir province is analyzed, it is explained that the highest value is in July with 12.05 hours and the lowest value is in December with 3.57 hours, similar to solar radiation. When the energy values that can be produced with PV type area are analyzed, it is seen that the highest energy production will be with the use of monocrystalline silicon. When solar radiation, sunshine duration and the energy that can be produced with PV type area are analyzed for the town of Göreme, the global radiation value is the highest in July and its value is measured as 6.83 kWh / m² - day. July ranks first in terms of sunshine duration with 12.17 hours. The energy value that can be produced with PV type area was found to be the same as the production value of Nevşehir province.

A solar potential model was developed and SEPA was created by using the data collected from EIE observation stations and DMİ data.

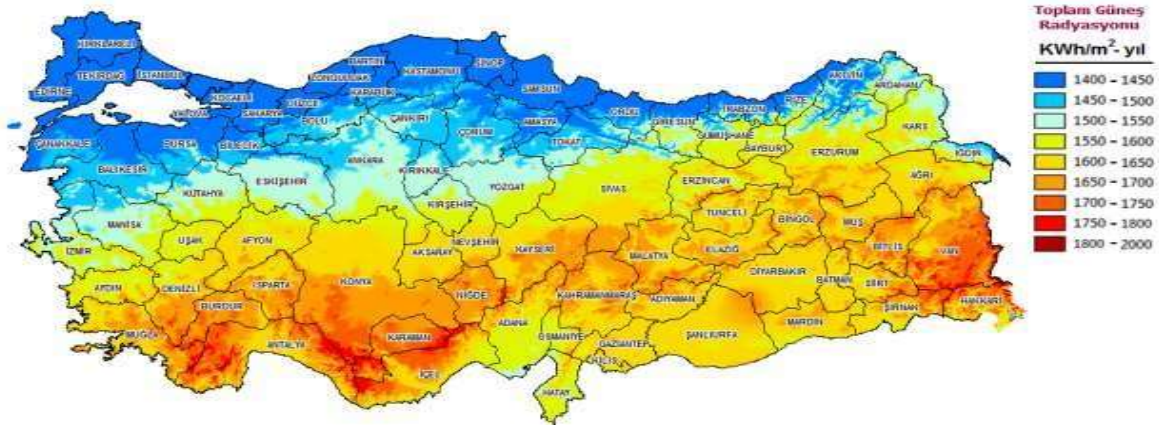


Figure 3. Turkey's Solar Energy Potential Atlas

4.2. Natural and Cultural Resources

In the province, there are Cappadocia and Göreme National Park, Ürgüp, Göreme, Uçhisar, Çavuşin, Derinkuyu underground city, Mustafapaşa settlement centers and a part of Avanos, which were included in the World Heritage List in 1985 by the United Nations Educational, Scientific and Cultural Organization (UNESCO) in the category of natural and cultural assets. There are many rock-carved and historical churches, chapels, monasteries, refectories and monk cells, warehouses and wine-making places in our region, which is visited by many local and foreign tourists annually. Unfortunately, there are risks of rockfall and cave collapse in these natural and cultural assets.



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Specific to the project area (SPP area) there is no, there is no natural or cultural resources.

4.3. Project Land Use Rights

The project will be constructed in an area that is currently designated as Dry Marginal Agricultural Land, registered in Göreme District, block 0, lot 9670, and owned by Göreme Municipality. However, in new upper scale plan, the area is designated as renewable energy facility land and will be updated in new urban plan as well. The existing lot will be used for the newly constructed Land SPP area.

The total title deed area of the project area is 13,308 m². Corner coordinates of the area in UTM ED50 (36 slice mid-longitude) format are given in the table below.

Table 1. Project Area Corner Points Coordinates (ED50)

Point	X	Y
K1	655949.34	4283592.13
K2	655999.2	4283531.6
K3	656005.87	4283503.64
K4	655983.68	4283496.93
K5	655981.704	4283496.64
K6	655952.65	4283492.09
K7	655947.94	4283498.86
K8	655933.23	4283499.47
K9	655916.74	4283495.005
K10	655862.88	4283560.55
K11	655845.39	4283563.97
K12	655840.79	4283574.42

The generated electricity will be supplied to the grid with a connection of existing electricity pole. The pole itself is inside a private land so small part of the energy transmission line required a land acquisition.



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Figure 4: SPP Area and Grid Connection

4.3.1. Land Acquisition

Although the project will be constructed on land that belongs to municipality, a small part of the transmission line is passing through private land since the existing electricity line is already passing through private land and SPP will be connected to the grid from the existing pole which is inside the private land. The private land's block no is 0 and lot no is 1718. The land is owned by Mr. Akif İlhan and he uses the land himself and does not rent it. The total area of the parcel is 13960 m². He is using the field for agricultural activities and there is no structure on the area.

For the land acquisition process, the municipality first obtained a consent letter from the landowner, and then obtained easement right of the property for 117 meter of energy transmission line. Consent letter and the deed of property with easement right is given in Annex-2. The easement right has been taken for 116.88 m² which corresponds 0.84% of the total lot area. There is no structure or tree on the area where easement right has been taken. The municipality has given 10,190.80 TL to landowner to obtain easement right.

Three electricity poles will be installed inside the private land. Energy transmission line will be hanged on these poles. Since, the poles will be above, the landowner will be able to continue agricultural activities in the area where easement right obtained. The installement of the poles



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will be performed when crops already scyred. If not, any crop loss will be covered by the contractor.

Project area and connection point is shown in the figure below. The green line is land acquisition required part of the energy transmission line that easement right has been obtained Information table related to land acquisition is given in Annex-3.

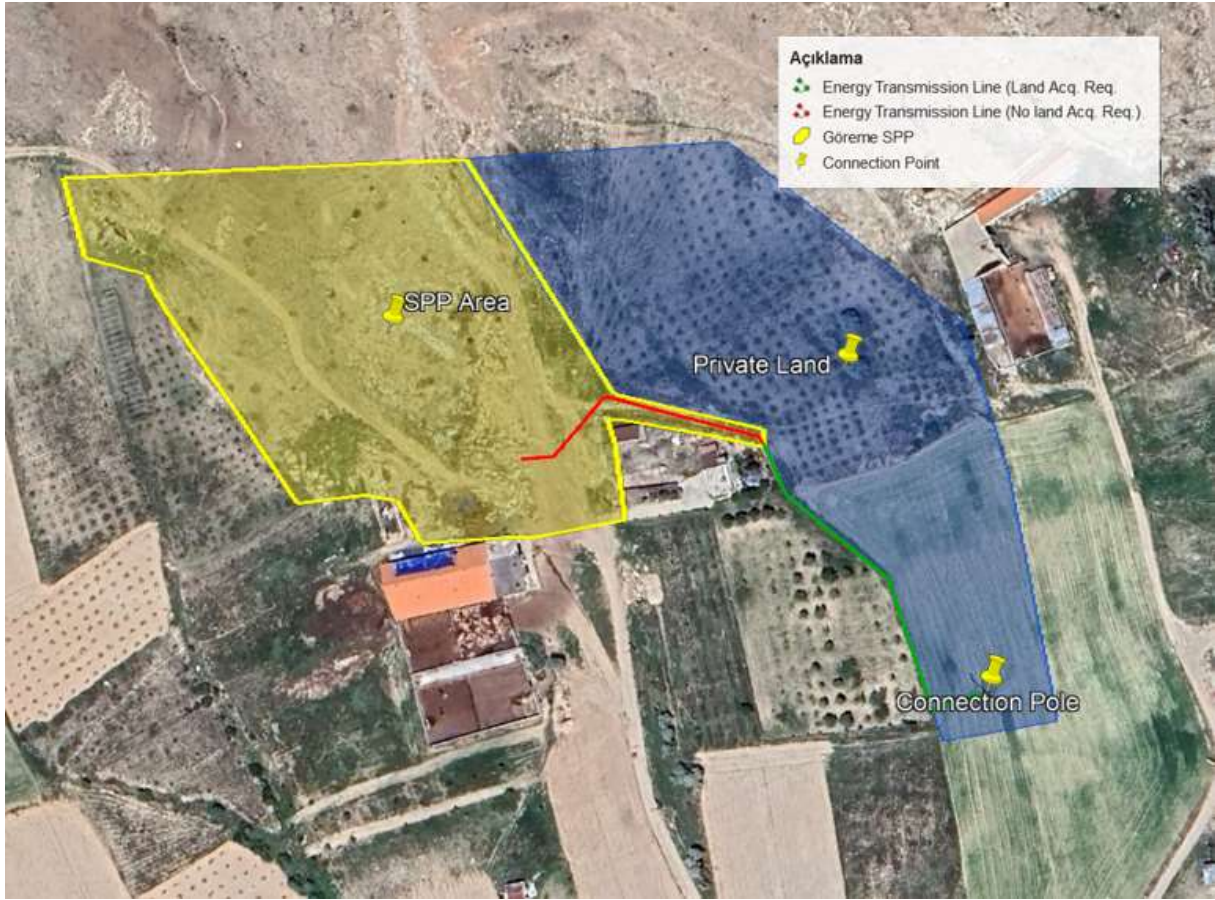


Figure 5: Land Acquisition Required Part of Energy Transmission Line

4.4. Socioeconomic Situation

Population of Göreme is 2,034 in accordance with the latest population counting which was done in 2022 published in TÜİK. The main source of livelihood of the district is agriculture and animal husbandry, as well as small enterprises especially on torusim.

The Regional Units Classification for Statistics (NUTS) is a hierarchical system created by the EU for dividing economic regions in order to collect, develop and harmonize EU regional statistics to serve socio-economic analysis of regions. According to this:



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- NUTS 1: major socio-economic regions;
- NUTS 2: core regions for the implementation of regional policies;
- NUTS 3: are small regions for specific diagnoses.

As an accession country and benefiting from the NUTS classification, Türkiye has the following number of regions at different levels:

- NUTS-1: 12 regions (IBBS-1);
- NUTS-2: 26 subregions (IBBS-2) and
- NUTS-3: 81 provinces (IBBS-3).

Göreme is a town of Nevşehir in and there for it is in the TR714 region according to the NUTS classification.

There are 14 provinces in the fourth level of development. Nevşehir is among these provinces. The table shows the SEGE-2017 rankings of the provinces in question and their index values

Table 2. Fourth Tier Developed Provinces

İller	SEGE 2017 Sırası	SEGE 2017 Endeks Deđeri
Amasya	38	0,054
Hatay	39	0,017
Nevşehir	40	-0,015
Afyonkarahisar	41	-0,023
Elazıđ	42	-0,061
Kırşehir	43	-0,085
Malatya	44	-0,113
Sivas	45	-0,137
Bartın	46	-0,140
Erzincan	47	-0,150
Kastamonu	48	-0,224
Artvin	49	-0,235
Çorum	50	-0,262
Aksaray	51	-0,271

Nevşehir, which is in the third rank of the fourth level of development, is in the twenty-sixth place with a value of 0.26 mWh in per capita residential electricity consumption in Turkey with an average of 0.59 mWh. The vocational and technical high school enrollment rate (23.8%) and the number of pharmacies per ten thousand people (3.4%) are higher than the national average. Variables have values below the country average. Only 2 per thousand of the number of beds with tourism investment operation and municipality certificates in Turkey are located



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in Nevşehir.

According to the calculated social, economic and general index values of 8 districts in Nevşehir, Merkez District is the most developed district of Nevşehir according to economic, social and parallel general index values. According to the social index ranking, Nevşehir Center ranks first, followed by Ürgüp, Avanos and Kozaklı districts. The least developed districts socially are Derinkuyu and Acıgöl. Ürgüp follows the Center, which ranks first in terms of economy; Acıgöl is in the last place in terms of economic index ranking.

Table 3. SEGE Indices of Nevşehir Districts

İlçe Adı	Genel Sıralama	İl İçindeki Sıralama	Skor	Kademe
Merkez	118	1	1,082	2
Ürgüp	216	2	0,527	2
Avanos	356	3	-0,044	3
Kozaklı	390	4	-0,130	3
Hacıbektaş	443	5	-0,211	4
Gülşehir	541	6	-0,385	4
Derinkuyu	728	7	-0,615	5
Acıgöl	811	8	-0,746	5

Nevşehir Center is located in the fourth level developed districts. The average daily income level of the districts in this level has the lowest values among all the levels. The average of Social Assistance Amount per Capita, which is one of the variables that is negatively related to socio-economic development and gives information about the poverty rate of the region, is approximately 40 percent higher than the country average at this level. In this level, the share of workplaces in high and medium high technology manufacturing industry sectors in Turkey has low values.



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5. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

The Project's planned activities, outlined in the Mitigation Plan, guide the assessment of the best practices for managing potential issues. All Project tasks will align with current national laws and World Bank standards. When Turkish laws differ from World Bank policies, the stricter regulation will be followed for project implementation.

To ensure adherence to environmental and social commitments outlined in the ESMP, a comprehensive monitoring, review, and audit program specified in the Monitoring Plan will be executed during construction and operation phases. The continuous monitoring of mitigation measures and commitments outlined in the ESMP will be the joint responsibility of the contractor and the municipality, as per the Monitoring Plan.

The municipality will be responsible for ensuring that the Contractor and its subcontractors comply with applicable national/international regulations and lenders' requirements.



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5.1. Mitigation Plan

Table 4. Mitigation Plan of the Project

Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Disturbance on flora and fauna species	Adverse	Negligible	<ul style="list-style-type: none"> Prior to the land preparation phase, specific work areas will be established where activities (e.g. vegetation clearing, vegetation removal, grading and construction) and permanent structures (units and roads) will be installed. 	Negligible	Contractor / Municipality	Included to Project cost	Visual observations
Soil contamination	Adverse	Low	<ul style="list-style-type: none"> The amount of soil that may be exposed to contamination will be minimized by ensuring that construction machinery and equipment and field personnel are used only at designated sites and routes. Machinery and equipment will be regularly checked for oil and fuel leaks. In case of any accident, leakage or spillage, necessary repair work and/or replacement of parts will be carried out immediately. Spill kits, absorbent pads and absorbent sands will be available at all Project construction sites at all times. The fuel required for construction equipment and vehicles to be used on site during the construction phase will first be procured from the nearest station; if deemed necessary, it will be stored in areas where the necessary sealing measures (including secondary containment) have been taken so that it can be stored on site The provisions of the Regulation on Soil Pollution Control and Point Source Contaminated Sites will be complied with. Wastes and wastewater that will be generated during the land preparation and construction phases of the Project will be stored and disposed of in a controlled manner in accordance with the relevant regulations and management practices described in this report. 	Negligible	Contractor / Municipality	Included to Project cost	Number of incident Incident reports



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Impacts on Water Resources	Adverse	Low	<ul style="list-style-type: none"> Discharge of effluents, residues or other wastes into groundwater or surface waters will be avoided. Portable toilets will be provided for workers at construction sites. Wastewater from construction sites will be collected in impermeable septic tanks and transferred to the nearest wastewater treatment plant by vacuum trucks. Waste water from cleaning or washing of vehicles and construction equipment will be collected in tanks and disposed of by vacuum trucks. Spill kits will be available at construction sites at all times. 	Negligible	Contractor / Municipality	Included to Project cost	Visual observations Grievances Sampling analysis
Decreased groundwater quality (or level)	Adverse	Low	<ul style="list-style-type: none"> While determining the locations of temporary fuel or oil storage areas, the locations of water sources will be taken into consideration and spills/leaks of hazardous substances such as fuel, oil, diesel, cement, etc. will be taken under control immediately. In case of detection of project-induced pollution in groundwater, the Precautions Program specified in Section 3 of the Regulation on the Protection and Determination of Groundwater against Pollution will be implemented. 	Negligible	Contractor / Municipality	Included to Project cost	Visual observations Grievances Sampling analysis



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Impacts of wastes on the Environment and Human Health	Adverse	Medium	<ul style="list-style-type: none"> The requirements of applicable waste management regulations will be followed for the management of all waste generated as a result of Project activities. Waste will be separated (e.g. hazardous/non-hazardous, recyclable/non-recyclable) and stored in designated temporary storage areas. All kinds of waste will be transported to the licensed disposal facility through licensed waste transportation companies in accordance with the relevant legislation. Some hazardous or special wastes (e.g. filters and protective clothing, cloths, packaging contaminated with chemicals such as paints/solvents or oils) likely to be generated under the Project will be stored in special compartments in the Temporary Storage area. The space allocated for this purpose will be separated from non-hazardous waste in containers. Spill kits will be available in the Temporary Storage Area and necessary precautions will be taken against possible fires, such as the provision of appropriate fire extinguishing equipment. The floors of the storage areas will be sealed against possible contamination of soil and groundwater. In addition, appropriate drainage system will be constructed against leakages. Physical access to landfills will be restricted and only authorized persons will be allowed to enter landfills. Warning signs and boards with the name and contact number of authorized personnel will be placed in the storage areas. It will be ensured that waste is not dumped outside the areas allocated for this purpose and all necessary waste management trainings will be provided periodically. No waste shall be disposed of or incinerated on the construction site. All solid waste will be collected from generation points and transported safely to a collection point. Throughout the Project, all activities including collection, temporary storage, transportation and disposal of wastes will avoid any work that may threaten personnel and public health. Awareness should be raised by training employees on waste management practices such as zero waste. The principle of reduction at source will be adopted. 	Low	Contractor / Municipality	Included to Project cost	<p>Visual orbervations</p> <p>Grievances</p> <p>Waste transfer records</p>
Solid (Domestic) Waste Generation	Adverse	Low	<ul style="list-style-type: none"> Waste generated under the Project will be managed according to the waste management hierarchy. Temporarily stored wastes will be classified according to their characteristics and labeled as hazardous or non-hazardous, waste code, amount of waste stored and storage date. Waste will be prevented from reacting with each other with the measures taken in the Temporary Storage Area. All solid waste will be collected from production points and transported safely to a collection point. Domestic solid wastes generated at the construction sites will be stored in containers and collected and disposed of daily by Göreme Municipality. Packaging materials (such as sacks, pallets, parcels, plastic sheeting) of the products used at the headquarters and construction sites will be collected separately in accordance with the provisions of the "Regulation on Packaging and Packaging Waste Control". There will be no on-site incineration or burial of waste and/or dumping into nearby roads or water bodies. Employees will be trained on waste management practices. 	Negligible	Contractor / Municipality	Included to Project cost	<p>Visual orbervations</p> <p>Grievances</p> <p>Waste transfer records</p>



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Hazardous Waste Generation	Adverse	Low	<ul style="list-style-type: none"> Waste oils from machinery and vehicles will be stored in sealed tanks and containers placed on impermeable ground in accordance with the "Regulation on Control of Waste Oils". Tanks and containers will be equipped with apparatus to prevent overflowing and will be filled up to the specified level mark. Tanks and containers will be colored red and labeled as "waste oil". Used batteries and vehicle accumulators from the construction site will be disposed of in accordance with the consumer responsibilities specified in Article 13 of the "Regulation on Control of Used Batteries and Accumulators". Accordingly, used batteries will be collected separately (from municipal waste) and transferred to designated collection points (e.g. collection point of the Portable Battery Manufacturers Association (TAP)), if any in the region. Hazardous wastes to be temporarily stored at the site will be delivered for disposal by licensed transportation vehicles suitable for the type of waste. Information on the transactions within this scope will be recorded. All other hazardous substances will be disposed of in accordance with the Waste Management Regulation. Temporarily stored wastes will be classified according to their characteristics and labeled as hazardous or non-hazardous, waste code, amount of waste stored and storage date. Reaction of wastes with each other will be prevented. Hazardous wastes will be stored at the construction site away from buildings in sealed and secure containers placed on a concrete floor, established in accordance with the Waste Management Regulation. 	Negligible	Contractor / Municipality	Included to Project cost	<p>Visual observations (for temporary waste storage area)</p> <p>Grievances</p> <p>Waste transfer records</p>
Dust and Particulate Matter production	Adverse	Low	<ul style="list-style-type: none"> The impact of dust generated during the construction phase will be reduced by adjusting the timing of works, controlling vehicle speeds and covering transportation vehicles with tarpaulins. Dust formation will be prevented by wetting the top of the excavation material. Loading/unloading will be done carefully without scattering. Windbreaks and barriers will be used in the work area according to the wind conditions. Trucks carrying excavation material will be covered, scattering of the material during transportation will be prevented, and if the material is scattered, the roads will be cleaned quickly. Care will be taken when loading and unloading the material. The route to be used for transportation of excavated material/waste will be carefully selected and care will be taken not to pass through densely populated areas Care will be taken to enforce speed limits for transportation vehicles. Accordingly, the speed limit will not exceed 30 km/h on poorly paved roads. In order to prevent the impact on air quality from affecting working and resting activities, construction activities will be carried out in specified periods and this time interval will be announced in advance to the residents who will be affected by air pollution through the communication tools of Göreme Municipality and Contractor / Subcontractors. Compliance with the air emission limit values stipulated in national legislation and the World Bank General EHS Guidelines will be ensured. 	Negligible	Contractor / Municipality	Included to Project cost	<p>Grievances</p> <p>Air quality measurements (if required)</p>



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
			<ul style="list-style-type: none"> If any complaints regarding dust generation are received, dust measurements will be carried out and mitigation measures such as increased wet suppression/irrigation activities, further reduction of speed/traffic, etc. will be developed, if deemed necessary, taking into account both national and World Bank EHS Guidelines limit values. 				
Exhaust emissions	Adverse	Medium	<ul style="list-style-type: none"> In accordance with the "Regulation on Exhaust Gas Emission Control", vehicles with traffic inspection will be subject to exhaust gas emission measurements, vehicles in need of maintenance will be serviced after routine checks, and other vehicles will be used until the maintenance is completed. Each vehicle to be used for transportation during the construction phase will have a "Motor Vehicles Exhaust Emission Measurement Stamp". The measurement stamp will be renewed every year by measuring the exhaust gas. Routine inspection and maintenance (daily and periodically) of vehicles used for transportation will be carried out. Maintenance forms will be filled in regularly. Fuel will be used in accordance with the standards. 	Low	Contractor / Municipality	Included to Project cost	Grievances Exhaust gas measurements
Increase in Noise Level	Adverse	Low	<ul style="list-style-type: none"> Accordingly, activities to be carried out in and around settlements will be carried out during daylight hours, not in the evening and night hours. In order to prevent noise from affecting working and resting activities, construction activities will be carried out during designated hours and in a manner not to exceed the limit values specified in national legislation and World Bank EHS Guidelines. Care will be taken to select equipment with low noise level. Where these limit values are exceeded, sound barriers will be used around the work area. In this context, silencers or silencer parts will be used in all kinds of motor vehicles. Maintenance of construction machinery shall be carried out in accordance with the relevant regulations and manufacturer's recommendations. All construction activities will be carried out in accordance with the noise limits specified in the Environmental Noise Assessment and Management Regulation and the World Bank EHS Guidelines and additional mitigation measures will be taken by the contractor in case of a requirement arising from monitoring. Machinery and equipment to be used in land preparation and construction activities will not be operated at the same point/location and will be distributed homogeneously within the site. Machinery, equipment and vehicles with low sound power level and reduced noise will be preferred. If any noise complaints are received, noise measurements will be carried out and mitigation measures such as the use of noise barriers, restriction of construction activities at certain times, etc. will be developed if deemed necessary, taking into account the limit values in both national and World Bank EHS Guidelines. People living in the immediate vicinity will be informed about the timing of construction activities. 	Low	Contractor / Municipality	Included to Project cost	Grievances Noise level measurements (if required)



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Vibration	Adverse	Low	<ul style="list-style-type: none"> Sensitivity will be shown in the selection of equipment and parts in accordance with the ground vibration velocity values given in Annex-VII Table-7 of the Environmental Noise Assessment and Management Regulation. In case of any complaint about the selected vehicles and equipment generating vibration above the expected level, measurement studies will be carried out and necessary corrective actions will be taken to prevent the transmission of vibration from the floor and side surfaces to the ground by using elastic mattresses and steel construction if necessary. 	Low	Contractor / Municipality	Included to Project cost	Grievances Vibration level measurements (if required)
Unsuitable Working Conditions	Adverse	Low	<ul style="list-style-type: none"> Workers will be provided with clear and understandable documented information on their rights under national labor law, including collective agreements, such as rights to working time, wages, overtime, compensation and benefits from the beginning of the employment relationship and when any material changes occur. The workplace will provide a grievance redress mechanism for workers to raise concerns. Workers will be informed about the grievance redress mechanism during recruitment and it will be made easily accessible to workers. 	Low	Contractor / Municipality	Included to Project cost	Non-compliance records Training Records Grievance records
Workers Employed by Third Parties and Supply Chain	Adverse	Medium	<ul style="list-style-type: none"> Subcontractors will be reputable and legitimate businesses and will have an appropriate Environmental and Social Management System (ESMS) to ensure that they operate in a manner consistent with working conditions requirements. 	Low	Contractor / Municipality	Included to Project cost	Sub-contractor contracts Grievance records
Child labor, forced and informal labor	Adverse	Medium	<ul style="list-style-type: none"> Informal labor, child labor and forced labor shall be prevented. Where construction activities are subcontracted, the Contractor shall establish procedures to manage and monitor the performance of subcontractors in relation to the requirements to prevent child labor, informal labor and forced labor. The Contractor shall require such subcontractors to include requirements and remedies for non-compliance in their contract agreements. 	Low	Contractor / Municipality	Included to Project cost	Social insurance records Grievance records



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Temporary worker flows Risk of social conflict Impacts on community dynamics	Adverse	Medium	<ul style="list-style-type: none"> During the contract period, Göreme Municipality will ask the contractor to make workforce planning and prepare a Workforce Management Plan. Municipality will evaluate this plan and submit it to ILBANK for approval. The Municipality and the Contractor will ensure that all employees are trained on code of conduct and communication with the public as orientation training to avoid any potential conflict in the future. 	Low	Contractor / Municipality	Included to Project cost	Grievance records
Inadequate worker health and safety conditions	Adverse	Medium	<ul style="list-style-type: none"> The Contractor formally agrees that all works will be carried out in a safe and disciplined manner and designed to minimize risks to neighboring residents and the environment. A leaflet will be prepared by the Contractor and will include a sketch of the site, emergency contact details, start date and targeted end date. The leaflet will be distributed to all buildings in the vicinity of the construction sites. Occupational health and safety training for employees will be carried out in accordance with the following points: <ul style="list-style-type: none"> Trainings will be carried out in accordance with the Regulation on Procedures and Principles Regarding Occupational Health and Safety Trainings of Employees, The Contractor shall inform its personnel about occupational health and safety issues in general and specifically about the Health and Safety Management Plan to be prepared by the Contractor. For this, the Contractor may use its own resources or consult with private companies or relevant departments of universities. A basic training will be provided at the start of the works and further training will be conducted on a monthly basis in line with the above. Training records will be kept and evaluation studies will be carried out after the trainings Operators working with chemicals will be trained on safe handling practices and emergency response procedures, The Contractor is obliged to ensure that the personnel of its subcontractors also receive the trainings and to take this into account in the protocols to be made with its subcontractors. An Emergency Preparedness and Response Plan will be prepared for a possible accident and emergency, emergency teams will be established, drills and trainings will be carried out in line with emergency scenarios. In accordance with international best practice and the Personal Protective Equipment Regulation, workers will be provided with appropriate Personal Protective Equipment (hard hats at all times, masks and safety glasses where necessary, safety belts and safety boots, etc.). An adequate OHS organizational structure as defined by the Occupational Health and Safety Regulation will be defined and the required number of full-time OHS officers will be assigned on site. Risk assessments will be made before starting work and staff will be trained on risks. The Contractor shall prepare a site specific Occupational Health and Safety (OHS) Management Plan in line with the Occupational Health and Safety Regulation and other relevant legislation and the site OHS risk assessment prepared in line 	Low	Contractor / Municipality	Included to Project cost	<ul style="list-style-type: none"> Number of incidents Number of non-compliances Training records HSE Reports



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
			with the World Bank EHS Guidelines. This plan shall include as a minimum, but not be limited to, the measures described herein.				
Uncertainty of Emergency Response Methods	Adverse	Medium	<ul style="list-style-type: none"> The issues related to Emergency Preparedness and Response specified in this Plan will be complied with within the framework of national and international standards. All accommodation areas will have adequate emergency response equipment such as first aid kits and fire fighting equipment. Appropriate emergency response equipment will be available at various locations on the construction site. Absorbent material, fire extinguishing equipment, etc. will be kept close to the construction site in order to intervene immediately in case of any emergency such as spillage and fire. Visual controls will be carried out periodically in hazardous waste storage areas and possible spills/leaks will be detected quickly. In case of fire, additional fire valves will be placed in narrow streets where vehicles cannot pass. 	Medium	Contractor / Municipality	Included to Project cost	Number of incidents Number of non-compliances Training records HSE Reports
Impacts on Local Economy, Livelihoods and Employment	Adverse	Low	<ul style="list-style-type: none"> Traffic safety management measures will be implemented. The project will prioritize local employment as much as possible in unskilled, semi-skilled and skilled jobs. 	Low	Contractor / Municipality	Included to Project cost	Grievances
Loss of Land and Structures	Adverse	Low	<ul style="list-style-type: none"> In the event of unforeseen damage to neighboring land, assets, crops and structures during the construction works, the Contractor shall compensate the damages. Affected people will be provided assistance by the project to enable them to improve their living standards and will be fully compensated for land loss according to asset types and location. In any case, if a land acquisition process is triggered, full compensation will be paid to landowners in accordance with the Resettlement Policy Framework of the project and the Resettlement Action Plan to be prepared for the subproject. No landowner will be victimized. 	Negligible	Contractor / Municipality	Included to Project cost	Visual observations Grievances



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Potential impact description	Impact	Importance of impact before mitigation	Mitigation Measures	Importance of impact after mitigation	Responsibility	Cost	Key Performance Indicators
Effects on Susceptible Individuals/Groups	Adverse	Medium	<ul style="list-style-type: none"> Vulnerable Groups will not be at risk of being excluded from decision-making processes for activities that will benefit them, or of receiving socially inappropriate benefits from project activities or adversely affecting their livelihoods. Vulnerable groups will have a voice in shaping the benefits they want to see from the Project. Equal participation of women in consultation and decision-making processes will be ensured. An adequate communication framework will be established to ensure that the voices of vulnerable groups are heard, pending issues are resolved and grievances are listened to. The use of access roads to the neighborhoods where training is carried out will be planned in a way that does not endanger the safety of service vehicles. Traffic precautions (warning signs for periods when large and dangerous loads will be transported, speed limits, settlement and school information) will be taken. Special crossings will be developed with additional measures for the elderly, pregnant women, young children and people with disabilities. GöremeMunicipality/Contractor shall inform the relevant institutions and organizations (Municipality, Electricity Distribution Company, natural gas distribution and operation company) before the start of construction in order not to affect the usage habits of those living in these areas during construction works. 	Medium	Contractor / Municipality	Included to Project cost	Grievances
Greenhouse gas emissions	Adverse	Medium	<ul style="list-style-type: none"> Existing construction equipment and materials will be optimally utilized to reduce GHG emissions. Speed restrictions on construction vehicles and equipment will be implemented to optimize fuel efficiency. Regular maintenance of construction vehicles and equipment will be carried out. Energy use of construction vehicles and equipment will be monitored. Project staff will be trained on energy efficiency. 	Low	Contractor / Municipality	Included to Project cost	Machinery and equipment maintenance records
Communication topics with stakeholders	Adverse	Medium	<ul style="list-style-type: none"> The ESMP and relevant project documents/information will be open to project staff, project stakeholders and the public. The public will be informed in advance about traffic route changes, etc. Information materials (brochures, leaflets, etc.) will be prepared. Platforms/meetings will be organized for information sharing and consultation. There will be regular consultations with local authorities and communities regarding the construction management The establishment and proper functioning of a grievance redress mechanism will be ensured and information about it will be publicized. All stakeholders' concerns will be addressed. A procedure for disclosure of hygiene practices will be implemented prior to stakeholder engagement events. All details of victims of Gender Based Violence (GBV) and Sexual Exploitation and Sexual Exploitation and Abuse/Sexual Harassment (SES/ST) will be kept strictly confidential in the Complaint Registration Database. 	Low	Contractor / Municipality	Included to Project cost	Grievances / comments / requests from stakeholders Minutes of the meeting for the meetings with stakeholders



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5.2. Monitoring Plan

Table 5. Monitoring Plan of the Project

Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
Disturbance on flora and fauna species	Fauna mortality due to project activities	Project site	Visual observation	Once in per three months	<p>WB EHS Guidelines: Environmental - Noise</p> <p>WB EHS Guidelines: Construction and Service exclusion</p> <p>Environmental assessment (OP 4.01)</p> <p>Natural habitat (OP 4.04)</p> <p>Environmental Law</p> <p>Under the title of Soil and Land Use Regulations defined in Table 2 -1</p> <p>Regulations defined in Table 2- 1 under the heading of Biodiversity Conservation and Nature Protection</p>	Included in Project Budget	Municipality and contractor
Soil contamination	Quality of Soil	Project site	Soil sampling and visual observation	When and incident occurs or a spill is observed	<p>WB EHS Guidelines: Community Health and Safety</p> <p>WB EHS Guidelines: Contaminated Land</p> <p>WB EHS Guidelines: Construction and Service exclusion</p>	Included in Project Budget	Municipality and contractor
	Number of spill incident	Administration office	Incident records	Monthly	<p>Environmental assessment (OP 4.01)</p> <p>Natural habitat (OP 4.04)</p> <p>Environmental Law</p> <p>Under the title of Soil and Land Use Regulations defined in Table 2 -1</p>		



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
Impacts on Water Resources	Water resources quality	Project site	Sampling	In case of grievance	WB EHS Guidelines: Environmental – Wastewater and receiving body water quality WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License	Included in Project Budget	Municipality and contractor
Decreased groundwater quality (or level)	Quality of groundwater	Project site	Sampling	In case of grievance	WB EHS Guidelines: Environmental – Wastewater and receiving body water quality WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License	Included in Project Budget	Municipality and contractor
Impacts of wastes on the Environment and Human Health	Waste transfer / disposal agreements Waste management trainings	Administration Office	Document check	Monthly	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – Management of hazardous material WB EHS Guidelines:Environmental – Waste Management	Included in Project Budget	Municipality and contractor



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
	Compliance of waste maagement	Project sites	Visiual observation	Daily	WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Solid (Domestic) Waste Generation	Waste transfer / disposal agreements Waste management trainings	Administration Office	Document check	Monthly	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – Management of hazardous material WB EHS Guidelines:Environmental – Waste Management	Included in Project Budget	Municipality and contractor
	Compliance of waste maagement	Project sites	Visiual observation	Daily	WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Hazardous Waste Generation	Waste transfer / disposal agreements Waste management trainings Hazardous waste transfer records	Administration Office	Document check	Monthly	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – Management of hazardous material WB EHS Guidelines:Environmental – Waste Management	Included in Project Budget	Municipality and contractor





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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
	Compliance of waste management	Project sites / temporary waste storage area	Visual observation	Daily	WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Dust and Particulate Matter production	Grievances	Administration Office	Document check	Daily	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – Air emissions and ambient air quality WB EHS Guidelines: Construction and Service exclusion	Included in Project Budget	Municipality and contractor
	Settling dust, PM10, PM2.5	Project sites	Visual observation and air quality sampling	In case of grievance	Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Exhaust emissions	Maintenance records of machinery and equipment	Administration Office	Document check	Weekly	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – Air emissions and ambient air quality WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01)	Included in Project Budget	Municipality and contractor



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
					Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Increase in Noise Level	Grievances	Administration Office	Document check	Daily	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – noise WB EHS Guidelines: Construction and Service exclusion	Included in Project Budget	Municipality and contractor
	Level of noise	Project site	Noise measurement	In case of grievance	Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Vibration	Grievances	Administration Office	Document check	Daily	WB EHS Guidelines:Public health and safety WB EHS Guidelines:Environmental – noise	Included in Project Budget	Municipality and contractor
	Level of vibration	Project site	Noise measurement	In case of grievance	WB EHS Guidelines: Construction and Service exclusion Environmental assessment (OP 4.01) Natural habitat (OP 4.04)		



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
					Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License		
Unsuitable Working Conditions	Work place hygiene Internal grievances	Administration Office	Documentation check	Weekly	WB EHS Guidelines: Occupational health and safety WB EHS Guidelines: Public health and safety Environmental assessment (OP 4.01) Labor Law	Included in Project Budget	Municipality and contractor
Workers Employed by Third Parties and Supply Chain	Implementation of sub-contractor's environmental and social management system	Administration Office	Documentation check Visual observation	Before contract commencement	WB EHS Guidelines: Occupational health and safety WB EHS Guidelines: Public health and safety Environmental assessment (OP 4.01) Labor Law	Included in Project Budget	Municipality and contractor
Child labor, forced and informal labor	Employment records	Administration Office	Documentation check Visual observation	Before contract commencement In case of grievance	WB EHS Guidelines: Occupational health and safety WB EHS Guidelines: Public health and safety Environmental assessment (OP 4.01) Labor Law	Included in Project Budget	Municipality and contractor



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
Temporary worker flows Risk of social conflict Impacts on community dynamics	Workforce management plan	Administration Office	Document check	Before contract commencement	WB EHS Guidelines: Occupational health and safety WB EHS Guidelines: Public health and safety Environmental assessment (OP 4.01) Labor Law	Included in Project Budget	Municipality and contractor
Inadequate worker health and safety conditions	Occupational health and safety management plan Training records Incident records	Administration Office	Document check Training record check	Weekly	WB EHS Guidelines: Occupational health and safety WB EHS Guidelines: Public health and safety	Included in Project Budget	Municipality and contractor
	PPE usage Compliance with OHS management plan	Project site	Visual observation	Daily	Environmental assessment (OP 4.01) Occupational Health and Safety Law		
Uncertainty of Emergency Response Methods	Emergency response exercise	Administration Office	Document check	Weekly	WB EHS Guidelines: Occupational health and safety WB EHS Guidelines: Public health and safety	Included in Project Budget	Municipality and contractor
	Existence of emergency response equipment (first aid kit, fire fighting equipment etc.)	Project site	Visual observation	Daily	Environmental assessment (OP 4.01) Occupational Health and Safety Law		
	Number of affected enterprises	Project site and access roads	Survey studies (if needed)	Monthly	Environmental assessment (OP 4.01)	Included in Project Budget	Municipality and contractor



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
Impacts on Local Economy, Livelihoods and Employment			Face to face meetings with owner of affected entriprises		Involuntary Resettlement (OP 4.12)		
	Grievances related to decrease in income generation	Administration Office	Document check	In case of grievance			
Loss of Land and Structures	Number of incident Number of grievence	Project site and administration Office	Visiual observation and document check	In case of grievance	Environmental assessment (OP 4.01) Involuntary Resettlement (OP 4.12)	Included in Project Budget	Municipality and contractor
Effects on Susceptible Individuals/Groups	Number of grievence and implementation of stakeholder engagement procedures	Administration Office	Document check	Daily	Environmental assessment (OP 4.01) Involuntary Resettlement (OP 4.12)	Included in Project Budget	Municipality and contractor
Greenhouse gas emissions	Maintanance records of machniery and equipment Energy consumption records	Administration Office	Document check	Weekly	WB EHS Guidelines:Public health and safety Environmental assessment (OP 4.01) Natural habitat (OP 4.04) Environmental Law Regulations defined in Table 2- 1 under Environmental Permit and License	Included in Project Budget	Municipality and contractor



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Potential impact description	Parameter to be monitored	Place of monitoring	Method of monitoring	Frequency	Legal requirement for monitoring	Cost	Responsibility
Communication topics with stakeholders	Implementation of stakeholder engagement procedures Grievance redress mechanism Number and types of complaints recorded, addressed and analyzed	Administration Office	Grievance records Participation records of meeting with stakeholders	In case of any related event	Environmental assessment (OP 4.01) Involuntary Resettlement (OP 4.12)	Included in Project Budget	Municipality and contractor



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6. STAKEHOLDER ENGAGEMENT

6.1. Stakeholder Analysis

This Stakeholder Analysis is based on the relevant Turkish legislation and international regulations by considering the project is exempt from EIA and classified as a Category B Project according to the WB OP 4.01. In conformity, relevant WB OPs (i.e., WB OP 4.01 and WB's 2010 Policy on Access to Information) and EU Directives. In this regard, the relevant national and international policies considered are given below.

6.2. Previous Stakeholder Engagement Activities

No preliminary stakeholder engagement activities were conducted for this project.

6.3. Stakeholder Identification and Analysis

Identifying stakeholders aims to pinpoint and rank those involved in or impacted by a project, whether directly or indirectly, positively or negatively. It helps recognize individuals or groups with an interest in the project, even if they aren't directly affected by it.

Within the scope of this project, list of the directly and indirectly affected stakeholders is given in table below.

Table 6. List of Stakeholders

Parties Affected by the Project	<ul style="list-style-type: none">• Neighborhoods at the project site and nearby settlements and the people living there
Other Related Parties	<ul style="list-style-type: none">• World Bank• İlbank• Ministry of Environment, Urbanization and Climate Change (MoEUCC)• Ministry of Energy and Natural Resources• Nevşehir Governorship Provincial Directorate of Environment, Urbanization and Climate Change• İlbank Kayseri Regional Directorate• Göreme Municipality• Turkish Electricity Distribution Co. (TEDAŞ)• Meram Electricity Distribution Co.• Contractor• Consultant
Final Beneficiary	<ul style="list-style-type: none">• Göreme Municipality



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The stakeholder identification process defines the nature of project impacts and examines the methods and frequency of engagement with stakeholders. The figure below shows a basic engagement diagram for stakeholder categories for effective engagement.

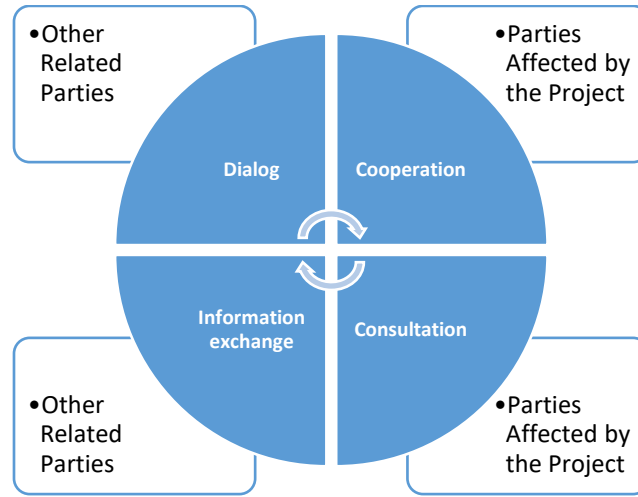


Figure 6: Engagement Diagram

As part of identifying stakeholders, it's crucial to recognize groups or individuals who might be disproportionately affected due to their vulnerable status. These could include households with disabled family members, people with chronic illnesses, elderly individuals living alone, female-headed households, households led by children, those with low or no income, and refugee households.

Although the project is located in an isolated area without nearby residential areas, ensuring minimal direct social impact on vulnerable groups like the disabled, women-led households, children, the elderly, and refugees during both construction and operation phases, there's acknowledgment that sensitive disadvantaged groups might exist within the project's scope, such as local market vendors and the general population. These groups might encompass individuals with disabilities, women leading low-income households, elderly individuals, or refugees indirectly affected by the project.

6.4. Stakeholder Engagement Program

The Stakeholder Engagement Program (SEP) serves as a control measure to ensure that essential project principles are implemented. Engagement activities will be strategically planned to involve relevant stakeholders to the maximum extent possible. This approach aims to minimize disruptions to the daily activities of local stakeholders by regulating the timing and frequency of engagement events. It's crucial to document findings and feedback from all



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engagement activities, share them with responsible parties, and follow through on the process. The engagement methods will respect cultural norms, provide fair access to all stakeholders, and facilitate their input. All engagement activities align with the specific schedule outlined in the project's Stakeholder Engagement Program.

Details of the Participation Methods to be used is as follows:

- **Public/Community Meetings:** Public meetings will be held and aim to inform stakeholders on project progress, environmental impacts and mitigation measures, potential constraints related to access to services and feedback from stakeholders.
- **Media Communication:** Media channels will be used as much as possible to disseminate information, as local media usage rates are high among people of different ages and backgrounds in project-affected communities.
- **Communication Equipment:** Written information will be disclosed through various means of communication and various materials, including brochures, flyers, posters, etc.
- **Project Site Visits for Media and Local Representatives:** If necessary, site visits or roadshows will be organized for selected stakeholders from media outlets or local authorities at appropriate points during the construction phase.

6.5. Roles and Responsibilities

Göreme Municipality and Contractor will implement the SEP activities during the construction and operation phases of the Project. The planned organizational structure of the Team is presented in table below

Table 7. Responsibilities of Key Actors/Stakeholders in SEP Implementation

Actor/Stakeholders	Responsibilities
Göreme Municipality	SEP Management Stakeholder engagement activities; Establishment of Grievance Redress Mechanism Management or resolution of Grievances resolution; Consultation on specific SEP activities;



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Actor/Stakeholders	Responsibilities
ILBANK	Monitoring and supervising the process of SEP implementation; Reporting the progress of SEP implementation to WB on regular periods
Contractor/Subcontractor(s)	Taking part of in SEP activities; Reporting of issues to Alaplı Municipality related to stakeholder engagement; Grievance management and resolution; Resolution of grievances issues resulting from construction activities with collaboration and under the direction of Göreme Municipality; Informing Göreme Municipality on construction activities (such as road closures and service interruptions); Internal Reporting to Göreme Municipality on SEP implementation
Supervision Consultant	Guide public participation and announcement requirements; Provide necessary information to Göreme Municipality Review GRM and complaints to Göreme Municipality.
WB	Audit the Göreme Municipality's compliance with the provisions set out in the SEP managed by the Municipality during the construction and operation phase via the Project Progress Reports Visit project sites to conduct its own monitoring at certain intervals or when necessary.

6.6. Grievance Mechanism

Key elements of a Grievance Mechanism include the following:

- Clear instructions on how grievances are made and how they are handled after they are made, including a minimum time a stakeholder should expect to receive a response

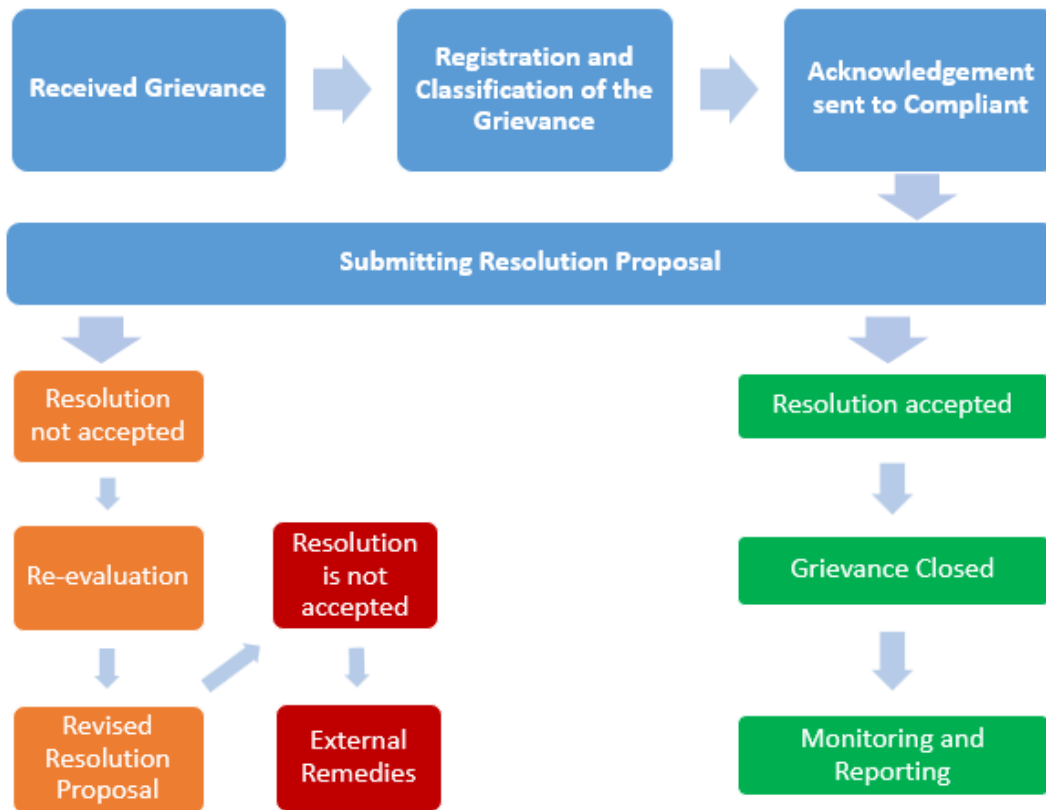


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- If a stakeholder is unable to submit a written complaint or is not comfortable making a complaint, alternative means to file a complaint in person with staff

In line with international requirements, a grievance mechanism has been established by Göreme Municipality to receive, resolve and follow up on concerns and grievances of project affected communities. Göreme Municipality will be accessible to stakeholders and will respond to all grievances (complaints, requests, opinions, suggestions) at the earliest possible time. The most important point in the grievance mechanism is to ensure that all grievances are effectively received, recorded, resolved and responded to by the Municipality within a predetermined timeline and according to their content, and that the corrective/regulatory action to be taken is acceptable to both parties. Such responses to complaints will be satisfactory to both parties and activities will be monitored and complainants will be informed about the results of corrective actions. In addition, the mechanism should be designed to be suitable for receiving and correcting anonymous complaints. After the necessary applications are made to Göreme Municipality, they should wait for resolution.

The flow chart of grievance mechanism is given in figure below.





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Figure 7: Grievance Mechanism Flow Chart

Grievances can be submitted from the channels below:

- Letters to be sent to address:Aydınlı Orta Mh. Menderes Cd. No: 2, 50180 Göreme / Nevşehir
- Telephones to be called no +90 (384) 271 20 01
- E-mails to be sent e mail address: belediye@goreme.bel.tr
- Public meetings
- Relevant public administrations
- Staff and local communication desk of the municipality
- During site visits
- or direct visits to the municipality or Contractor's site/administration office

6.7. Monitoring and Reporting

Stakeholder Engagement Program will be reviewed and updated periodically (per 6 months) by the contractor with help of the municipality. All grievances received will be recorded in database of the municipality and performance effectiveness of the SEP will be monitored based on number of grievance resolution.



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7. CONCLUSION

This Environmental and Social Management Plan (ESMP) serves as a comprehensive roadmap, delineating and assessing potential environmental and social impacts anticipated during the various phases of the Project's construction and operation. It not only identifies these impacts but also proposes a suite of lendesigned mitigation measures. The aim is to proactively address and effectively mitigate any potential adverse effects that may arise. Through the holistic implementation of this ESMP, the Project's execution is poised to uphold a high standard of environmental sustainability and social responsibility. It is reassuring that, upon thorough consideration, there are no anticipated major or irreversible negative impacts that might impede the Project's overall sustainability.

To align with the stringent requirements outlined by the the Municipality is mandated to ensure transparent and accessible public disclosure of the ESMP. This dissemination is to be facilitated through both the Municipality's official website, ensuring broad accessibility and transparency. Furthermore, recognizing the dynamic nature of environmental and social considerations, this ESMP is subject to periodic, rigorous review. Any necessary updates are meticulously incorporated, and subsequent approvals are diligently obtained. The Project Owner shoulders the responsibility for disseminating each officially approved updated version of this ESMP. This approach guarantees ongoing transparency, robustness, and accountability in the continuous evolution of the ESMP, cementing a commitment to sustainable practices.



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ANNEX 1 – THE LAND ALLOCATION





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T.C.
NEVŞEHİR VALİLİĐİ
Çevre ve Şehircilik İl Müdürlüğü
Milli Emlak Müdürlüğü

Sayı : E-84955444-401[50010110981]-1142697

Konu : Tahsis- Göreme Kas. 9670 parsel

GÖREME BELEDİYE BAŐKANLIĐINA

İlgi : a) 14.12.2020 tarihli ve 1466 sayılı yazımız.
b) Özel Tahsis Dairesi Başkanlıđının 10.06.2021 tarihli ve E-66844966-401[3121_140647]-1032808 sayılı yazısı.

İlgi (a) yazınızla İlimiz, Merkez İlçe, Göreme Beldesinde bulunan, 9670 parsel numaralı ve 13.308,78 m² yüzölçümlü mülkiyeti Hazine ait taşınmazı "Güneş enerjisi santrali kurulmak üzere" Belediyeniz adına tahsis talebinde bulunulan taşınmazla ilgili olarak Bakanlıđımızdan (Milli Emlak Genel Müdürlüğü) alınan ilgi (b) yazı ile taşınmazın;

Kapadokya Alan Başkanlıđının 29/3/2021 tarihli ve 6413 sayılı yazısında (Ek) belirtilen hususlara riayet edilmesi, 6446 sayılı Elektrik Piyasası Kanunu, 5346 sayılı Yenilenebilir Enerji Kaynaklarının Elektrik Enerjisi Üretimi Amaçlı Kullanımına İlişkin Kanun ve Enerji Piyasası Düzenleme Kurumu (EPDK) mevzuatı kapsamında ilgili İdarelerden gerekli izinlerin alınması, üretilecek elektriğin münhasıran Belediye hizmetlerinde kullanılması, ticari amaçla kullanılmaması, üçüncü kişilere ticari ya da gayri ticari amaçla kullanılmaması/devredilmemesi, tahsisli idarenin ilgili mevzuatları ile belirlenen ve alınması zorunlu olan gelirler dışında her ne ad altında olursa olsun herhangi bir ücret alınmaması, bu hususlar dışında ticari amaca yönelik ünitelerin söz konusu ve zorunlu olması durumunda ise Hazine Taşınmazlarının İdaresi Hakkında Yönetmeliğin 67, 70 ve 73/A maddesine göre işlem yapılması kaydıyla, 5018 sayılı Kanunun 47 nci maddesi ile 1 no.lu Cumhurbaşkanlıđı Teşkilatı Hakkında Cumhurbaşkanlıđı Karamamesininin 101 inci maddesinin birinci fıkrasının (ç) bendi uyarınca "Güneş enerjisi santrali kurulmak üzere" Göreme Belediye Başkanlıđı adına 2 (iki) yıl süreli ön tahsisi uygun görüldüğü, bildirilmiştir.

Belirtilen süre içerisinde yatırım projesinin hazırlanması, yatırım programına alınması ve üzerinde tesis/bina inşaatına başlanması halinde ön tahsisin hizmet süresince devamı için kesin tahsise dönüştürülmesi yönünde talepte bulunulacaktır. Aksi halde tahsis işlemi herhangi bir işleme ve yazışmaya gerek olmaksızın kendiliğinden kalkmış sayılacaktır.

Bilgi edinilmesini ve ön tahsisi yapılan taşınmazı teslim almak üzere personel görevlendirilerek Dairemizle irtibatının sağlanması konusunda geređini rica ederim.

Mustafa SOLMAZ

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Dođrulama Kodu: A3C889C7-1214-495A-803A-19BDD5767DD3

Dođrulama Adresi: <https://www.turkiye.gov.tr/ebd>

15 Temmuz Mah. Alparslan Türkeş Cad. No:1 Merkez/NEVŞEHİR

Tel: (384) 215 10 50 - (384) 215 10 54 Fax: (384) 215 10 56

e-posta:nevsehir@csb.gov.tr İnternet adresi: www.csb.gov.tr/iller/nevsehir

Bilgi için: İsmail KAÇMAZ
Milli Emlak Uzmanı





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Çevre ve Şehircilik İl Müdürü

Ek: 10/06/2021 tarihli E-66844966-401[3121_140647]-1032808 sayılı yazı. (1 Sayfa)

Bu belge, güvenli elektronik imza ile imzalanmıştır

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15 Temmuz Mah. Alparslan Türkeş Cad. No:1 Merkez/NEVŞEHİR

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Bilgi için: İsmail KAÇMAZ
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T.C.
GÖREME BELEDİYE BAŐKANLIđI
Fen ve İmar İřleri Őefliđi



Sayı : E-29506280-045.01-5356
Konu : 9670 Parsel Ön Tahsis Uzatımı Hk.

05.09.2023

ÇEVRE, ŐEHİRCİLİK VE İKLİM DEđİŐİKLİđİ BAKANLIđINA
(Milli Emlak Müdürlüđü)

İlgi : 18.06.2021 tarihli ve E-84955444-401[50010110981]-1142697 sayılı yazı.

İlgi yazınızda Nevşehir İli, Merkez İlçesi, Göreme Beldesi 9670 parselin "**Güneő Enerjisi Santrali Kurulmak Üzere**" belediyemiz adına iki (2) yıl süreli ön tahsis uygun görüldüđü tarafımıza bildirilmiőtir.

Belirtilen süre içerisinde yatırım kapsamına alınmış olup ancak iller bankası ve dünya bankası ile proje kredi kullanımı gibi çalışmalarının devam etmesi neticesinde inőaat sürecine başlanmamış olup ön tahsis onay süresinin en az bir (1) yıl daha uzatılmasını talep ediyoruz.

Geređini bilgilerinize arz ederim.

Ömer EREN
Belediye Baőkam

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Dođrulama Kodu: GQqqP6-DEj1ym-eZYRAN-kQQ/1k-YTeKYhbg Dođrulama Linki: <https://www.turkiye.gov.tr/icisleri-belediye-ebys>

Orta Aydınlı Mahallesi Adnan Medneredes Caddesi No:2
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Bilgi için: Durmuş DÜZGÜN
Restoratör
Telefon No:





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T.C.
ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŐİKLİĐİ BAKANLIĐI
MİLLİ EMLAK GENEL MÜDÜRLÜĐÜ

Sayı : E-66844966-756.01-7480263

Konu : 3121-140647 Tahsis (Göreme Bld.-GES)

DAĐITIM YERLERİNE

- İlgi : a) 10.06.2021 tarihli ve 1032808 sayılı yazımız.
b) Nevşehir Valiliđinin (Milli Emlak Müdürlüğü) 20.09.2023 tarihli ve 7426477 sayılı yazısı.
c) Bakanlıđımızca (Bakan Müşavirliđi) yayımlanan 2018/11 Sayılı İç Genelge.

Nevşehir İli, Merkez İlçe, Göreme Beldesinde bulunan, mülkiyeti Hazineye ait, imar planı dışında kalan, kıyıda kalan, 9670 parsel numaralı, 13.308,78 m² yüzölçümlü taşınmazın "**Güneş enerjisi santrali kurulmak üzere**" Göreme Belediye Başkanlıđı adına 2 (iki) yıl süreli ön tahsisi ilgi (a) yazımızla uygun görülmüştür.

Bu defa, ilgi (b) yazı ile yeniden ön tahsisi talep edilen ve ilgi (c) İç Genelge ile 2018/8 sayılı Cumhurbaşkanlıđı Genelgesi uyarınca teşkil ettirilen Komisyondan alınacak izinden muaf tutulduđu bildirilen, İliniz, Merkez İlçe, Göreme Beldesinde bulunan, imarsız alanda kaldıđı, boş vaziyette olduđu bildirilen, mülkiyeti Hazineye ait 9670 parsel numaralı ve 13.308,78 m² yüzölçümlü taşınmazın **2022/15 ve 2021/14 sayılı Cumhurbaşkanlıđı Genelgeleri kapsamında gerekli izinlerin alınması, Kapadokya Alan Başkanlıđının 29/3/2021 tarihli ve 6413 sayılı yazısında (Ek) belirtilen hususlara riayet edilmesi, 6446 sayılı Elektrik Piyasası Kanunu, 5346 sayılı Yenilenebilir Enerji Kaynaklarının Elektrik Enerjisi Üretimi Amaçlı Kullanımına İlişkin Kanun ve Enerji Piyasası Düzenleme Kurumu (EPDK) mevzuatı kapsamında ilgili İdarelerden gerekli izinlerin alınması, üretilecek elektriğin münhasıran Belediye hizmetlerinde kullanılması, ticari amaçla kullanılmaması, üçüncü kişilere ticari ya da gayri ticari amaçla kullanılmaması/devredilmemesi, tahsisli idarenin ilgili mevzuatları ile belirlenen ve alınması zorunlu olan gelirler dışında her ne ad altında olursa olsun herhangi bir ücret alınmaması, bu hususlar dışında ticari amaca yönelik ünitelerin söz konusu ve zorunlu olması durumunda ise Hazine Taşınmazlarının İdaresi Hakkında Yönetmeliğin 67, 70 ve 73/A maddesine göre işlem yapılması kaydıyla, 1 Numaralı Cumhurbaşkanlıđı Kararnamesinin 101 inci maddesinin birinci fıkrasının (ç) bendi ile 5018 sayılı Kanunun 47 nci maddesi gereğince, "**Güneş enerjisi santrali kurulmak üzere**" Göreme Belediye Başkanlıđı adına yeniden 2 (iki) yıl süreli ön tahsisi uygun görülmüştür.**

Belirtilen süre içerisinde yatırım projesinin hazırlanması, yatırım programına alınması ve tesis/bina inşaatına başlanması halinde ön tahsisin hizmet süresince devamı için kesin tahsise

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Dođrulama Kodu: 7EAA61DB-FE3C-4EF1-9270-3246A55CA0B1

Dođrulama Adresi: <https://www.turkiye.gov.tr>

KEP Adresi : cevrevesehirclikbakanligi@hs01.kep.tr

Bilgi için: Burcu AYDIN
DEFTERDARLIK UZMANI





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dönüřtürülmesi yönünde talepte bulunulacaktır. Aksi halde tahsis iřlemi herhangi bir iřleme ve yazıřmaya gerek olmaksızın kendiliğinden kalkmıř sayılacaktır.

Bilgi edinilmesini ve geređini rica ederim.

Arif Mesut ÖZDEMİR
Bakan a.
Daire Bařkanı

Dađıtım:

Geređi:

NEVŐEHİR VALİLİĐİNE (Çevre, Şehircilik ve İklim Deđiřikliđi İl Müdürlüğü)

Bilgi:

Göreme Belediye Bařkanlıđına

Bu belge, güvenli elektronik imza ile imzalanmıřtır.

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ANNEX 2 – CONSENT LETTER AND THE DEED OF PROPERTY WITH EASEMENT RIGHT





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TÜRKİYE CUMHURİYETİ
TAPU SENEDİ

TAŞINMAZ BİLGİLERİ	İl:	NEVŞEHİR		
	İlçe:	MERKEZ		
	Mahalle/Köy:	GÖREME		
	Mevki:	GÜNEY		
	Ada:	Parsel:	1718	
	Yüz Ölçümü:	13.960,00 m ²	Cilt/Sayfa No:	19 - 1730
Niteliđi:	BAĞ			

MALİK BİLGİLERİ	Adı Soyadı/Baba Adı:	Hissesi:	Hisseye düşen m ² :
	AKİF İLHAN - MUSTAFA Ođlu	Tam	13.960,00

TESCİLE İLİŞKİN BİLGİLER	Taşınmaz No:	Edinme Nedeni:	İşlem Bedeli:
	10043080	Diđer İrtifak Haklarının Tesisi	
Konum Bilgisi:	Tescil Tarihi/Yevmiye No:	Sicilne Uygunluk:	
	03/11/2023 - 33421	Veriliş Tarihi: 03/11/2023 Yasama Tutanak No: 11/2023 Yetkili Müddet Yarıllım	

TESİS EDİLEN:
Diđer İrtifak Hakkı: 1718 NOLU PARSEL ALYHİNE GÖREME BELEDİYESİ LEHİNE KROKİDE (A) İLE GÖSTERİLEN 1 M GENİŞLİĞİNDE 116,00M² LİK İRTIFAK HAKKI VARDIR. LEHİTAR: GÖREME BELEDİYESİ

Diđer Bilgiler:
Kamusal ve şahsi haklar ile gerh ve beirtmeler için tapu siciline müracaat edilmesi gerekmektedir.



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MUVAFKATNAME

MAL SAHIBI: AKIF İLHAN

06.06.2022

Nevşehir İli, Merkez İlçe, Göreme Beldesi, Güney Mevkii, 1718 Parsel tarafıma ait olup, 25.05.2022 Tarihli 202202123 numaralı başvuru 5/1.h maddesi kapsamında Göreme Belediye Başkanlığı' na ait 643.2 KW kurulu güneş elektrik üretim tesisi Elektrik hattı için tarlamın içinde bulunan 6112185 barkotlu direktten Enerji olarak tarlamın içinden 9670 parsel 36 KV XPLE hattının götürülmesine, elektrik hattını çekmesine, Tedaş, Medaş gibi ilgili Tüm işlemleri yapmasına proje çizilmesine, kabul yaptırımına ve bu işler ile ilgili tüm dilekçe vermesine rıza ve muvafakat ederim.

AKIF İLHAN
TC: 43285811114



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ANNEX 3 –LAND ACQUISITION INFORMATION TABLE





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1. INVENTORY OF LAND & ASSETS ACQUIRED FROM PRIVATE OWNERS (COMPLETELY VOLUNTARY PURCHASED)	
Inventory of Land & Assets Acquired from Private Owners (Easement)	
Parcel No: 0/1718	
Name of Legal Owner(s)	Akif İLHAN
Number of Household living in the Resident	0
Number of People living in the Resident	0
Name of Illegal User(s)	0
Land user	Akif İLHAN
Block/Parcel No	0/1718
Address / Location	Göreme District
Project Component: Area(s) / plots(s) acquired (m ²)	116.88 m ²
Land acquisition method	Easement
Land use: pasture, agriculture, residence, etc.	Agricultural activities
Owner's total land holding (m ²); % taken for project	13960 m ² ; 0.84%
Inventory of any structures or other fixed or productive assets (wells, fences, trees, field crops, etc.) affected	Field Crops
Distance between previous residence to current residence in case the acquired land was used for residence	NA
Indicate if land was rented or informally used by another party	NA
Indicate if non-owner users had assets, trees, crops, etc. affected	NA
Indicate if land-based activity is significant source of income for owner	The landowner stated that he obtained some of his income from this field.
Indicate if land-based activity is significant source of income for land user	The landowner stated that he obtained some of his income from this field.
Compensation paid (add transaction fee)	Total compensation fee of 10,190.80 TL has been paid to land owner
Dates delivered	January 2024
Impact on income of owner	The owner of the land stated that his income is not affected since his land is used for easement and he can still use his land for agricultural purposes.



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ANNEX 4 –ENVIRONMENTAL AND SOCIAL SCREENING FORM





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ENVIRONMENTAL AND SOCIAL SCREENING CHECKLIST FOR SUB-PROJECTS

Sub-project Information	
Sub-project title	Consultancy Services for the Preparation of Technical Feasibility Studies under the Sustainable Cities Program-II, Additional Financing (SCP-II AF) Group-1, Göreme Municipality Solar Power Plant Project
Sub-project beneficiaries	Göreme Municipality
Proposed date of start of work	The entire tender process of the Project will start with the advertisement in September 2023 and end with the award of the construction contract in June 2024. A 12-month construction/construction period and a 12-month Defects Liability Period are envisaged for the Project implementation. The project will be implemented in the second of 2025 and a 30-year projection has been made considering the economic life of the Solar Power Plant, accordingly the project target year is 2054.
Brief description of sub-project	This project is designed to meet some of the electricity needs of Göreme Municipality. The area currently designated as Dry Marginal Agricultural Land is located on an area of 13,308.78 m ² registered in Göreme Town 0 block 9670 parcel and allocated to Göreme Municipality. The existing parcel will be used for the new Land SPP area.
Site area, location	It is located in Center District, Göreme Town, within the borders of Nevşehir province, on an area of 13,308.78 m ² registered in 0 block 9670 parcel and allocated to Göreme Municipality. The existing parcel will be used for the new Land SPP area.
Status of national EIA process of sub-project	According to the Environmental Impact Assessment Regulation, Solar Power Plant Projects are not considered within the scope of Annex-I or Annex-II. Therefore, no Environmental Impact Assessment is required and there is no EIA process conducted for the project.

Environmental and social impacts related to the proposed sub-project – the existing situation			
	Yes	No	Details
Will the subproject adversely affect legally protected areas or internationally recognized areas of high biodiversity value ¹ ?		X	The Project will be implemented on the existing vacant land under the Municipality. Therefore, it will not adversely affect these areas.
Will the sub-project be located in or near the environmentally sensitive or protected area (in accordance with national legislation)?		X	There are no environmentally sensitive protected areas in and near the Project implementation area.

¹ Internationally recognized areas of high biodiversity value include World Heritage Natural Sites, Biosphere Reserves, Ramsar Wetlands of International Importance, Key Biodiversity Areas, Important Bird Areas, and Alliance for Zero Extinction Sites, among others.



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Will the sub-project adversely affect critical habitats such as forest ecosystems, wetlands, marshlands, and aquatic ecosystems or natural habitats?		X	It will not adversely affect critical habitats or natural habitats such as forest ecosystems, wetlands, marshes and aquatic ecosystems.
Will the sub-project adversely affect endangered plant and animal species?		X	It will not adversely affect endangered plant and animal species.
Will the sub-project affect archaeological sites, historic monuments, and settlements?		X	There are no ruins and historical monuments in and near the Project area. There is no activity that will negatively and permanently affect settlements.
Is there woods or forest around the sub-project area?		X	There are no wooded or forest areas within the environmental impact area.
Will the sub-project adversely affect the woods and forest?		X	
Is there any combustible and flammable subsidence material around the sub-project area?		X	There are no flammable and combustible debris materials around the Project area.
Is there underground facilities such as gas pipeline, electrical facilities?		X	There are no underground lines in the Project area.
Are there any overhead lines such as high-voltage lines in or near the sub-project area?		X	There are no overhead lines in and around the Project area.
Will people permanently or temporarily lose access to facilities, services, or natural resources because of the sub-project activities?		X	Access to natural resources is not expected to be restricted temporarily or permanently.
Does this sub-project intervention (for the Power Plant Area, Power Transmission Line or Access Road) require the acquisition of privately owned land? If so, please provide details!		X	The last part of 116.88m of the energy transmission line (ENH) between 86.16m and 203.04m is located on the private land on 1718 parcel of 0 block. No livelihood activities have been carried out on this area in the past or present. Göreme Municipality signed a letter of consent with the landowner on 06.06.2022. The easement right of the property was taken on 03.11.2023.
If land parcel acquisition (for Power Plant Area, Power Transmission Line or Access Road) is required, what is the actual land size and ownership status?		X	Easement right of 116.88 m ² area has been obtained.
If new land is required (for a Power Plant Area, Power Transmission Line or Access Road) and the site is privately owned, can this land be purchased in a Buyer Willing, Seller Willing manner (excluding expropriation)?		X	Göreme Municipality signed a letter of consent with the landowner on 06.06.2022 and easement right was obtained on 03.11.2023.
Will the sub-project require the acquisition of public lands?		X	No public land acquisition required.



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Has land been acquired for the Power Plant Area, Power Transmission Line or Access Road for the Project in the last 5 years? If yes, by what means (expropriation or voluntary purchase)?		X	
If public land is to be acquired, are there any official/non-official users using the land for income generation?		X	
Will there be loss of/damage to productive trees, fruit plants or crops that generate livelihood income for the households?		X	
Is there any soil contamination observed at the sub-project area?		X	

Impacts of sub-project (in case of rooftop solar sub-project only):			
Will the sub-project affect the daily operation of the building and people?		X	Project activities will not affect the daily functioning of people living in the vicinity.
Is the building protected under the law for the protection of cultural heritage?		X	
Is the building of special significance to any vulnerable group (i.e. disabled people, minorities, youth, etc.)?		X	

Environmental and social/impacts related to sub-project construction/installation			
	Yes	No	Details
Will the sub-project involve the use of forest trees or other natural resources as building materials?		X	Metal material will be supplied as construction material within the scope of construction activities.
Will the sub-project emit greenhouse gases (CO ₂ , NO _x , O ₃) or ozone-depleting substances (CFC, methyl bromide, etc.)?	X		Greenhouse gases will be temporarily emitted during welding activities.
Will the sub-project use, produce, or discharge hazardous and toxic materials (e.g., hospital waste, industrial waste, or other?)	X		Waste welding iron from welding operations and materials such as gloves, overalls and cloths contaminated with them will be generated.
Will the sub-project produce or cause occupational hazards?	X		There will be occupational hazards as the construction machinery and equipment to be operated within the scope of construction activities will be welded and welding machines will be used.



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Will the sub-project cause dust and noise pollution?	X		Emissions and noise from vehicles and equipment to be operated during construction activities are expected.
Will the sub-project cause water pollution?		X	There is no activity that will cause water pollution.
Will the sub-project cause soil pollution?		X	There is no activity that will cause soil pollution.
Will the sub-project result in temporary disruption to the livelihoods of any persons/households?		X	Not expected.
Will the sub-project cause community safety-related hazards?		X	There will be no public safety hazards.
Will the sub-project include significant OHS concerns?		X	Significant problems can be avoided by taking occupational health and safety measures during construction activities such as electrical welding, assembly and vehicle movement.
Will the sub-project cause additional traffic load?	X		There will be temporary additional traffic load due to the addition of logistic support vehicles to the existing traffic for the construction works to be carried out within the scope of the Project.
Will the sub-project cause any adverse impact on the closest sensitive receptors (if there is any)?		X	
Is there a population that can be negatively affected by the sub-project?		X	There is no community expected to be negatively affected during the works to be carried out within the scope of Project Activities.
Other environmental or social impacts (describe the nature and severity of its impact)	<i>All environmental and social impacts have been answered with the relevant questions above. There are no impacts other than these.</i>		

Sub-project Categorization and Need for Safeguards Instruments

Sub-project Category	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/> High
Key Reasons	<p>Short term basic construction activities that require that land leveling and simple excavation and installation of equipment. Low environmental impacts are expected to be temporary and reversible or mitigated with specific mitigation measures.</p> <p>The last part of 116.88m of the energy transmission line (ENH) between 86.16m and 203.04m is located on the private land on 1718 parcel of 0 block. No livelihood activities have been carried out on this area in the past or present. Göreme Municipality signed a letter of consent with the landowner on 06.06.2022. The land acquisition process has been completed for total area of 116.88</p>



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	m ² . The easement right of the property has been taken on 03.11.2023.
Environmental and Social Instruments Required	<input checked="" type="checkbox"/> Simplified Environmental and Social Management Plan (ESMP) <input type="checkbox"/> Occupational Health and Safety Management Plan (OHSMP) <input type="checkbox"/> Stakeholder Engagement Plan (SEP) <input type="checkbox"/> Community Health and Safety Management Plan (CHSMP) <input type="checkbox"/> Resettlement Action Plan RAP <input type="checkbox"/> Ex-post Social Audit (EPSA)

Status	Agency / Official	Name, Signature with Date
Prepared by	Consultant	Dođukan Arıkan
Checked and Categorized as (low, moderate, substantial, or high) by	Consultant	Mehmet Öner AKTEN
Reviewed and Approved by	Consultant	Mehmet Öner AKTEN