## **R-Engineering EOOD**

### XXX-X-XXXX-XX-XXXX-000-00



Title:

# Environmental and Social Management Plan for St. George Solar PV Project

Topic:

Defines arrangements in place for the management of environmental and social aspects during St. George Solar PV Project Execution

Target Group:

R-Engineering EOOD, EPC, Owner's Engineer

	Name	Position	Signature	Date
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Format Checked by:				
Approved by:				



Revision Details						
Rev. No.	Revision Status	Revised chapter/ page	Revision's reason	Revision's promoter	Revision's date	
A	1.0	First draft	First draft for Lender review	N Davies	05 February 2024	
В	2.0	Final Draft	Final draft for disclosure	N Davies	23 April 2024	

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# ABBREVIATIONS

ATS	Action Tracking System
CMP	Contractor Management Plan (generic term for management plans, method statements, work procedures implemented by contractors)
EPC	Engineering, Procurement, and Construction
E&S	Environmental and Social
ESHS	Environmental, Social, Health and Safety
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESMR	ES Monitoring report
HR	Human resources
HUB	Hub substation
IFC	International Finance Corporation
KPIs	Key Performance Indicators
L-S	Ludogorie – Srebarna
NCR	Non-conformance reporting
OHTL	Overhead Transmission Line
PS	Performance Standard
PV	Photovoltaic
SPV	Special Project Vehicle
SUS	Step up Substation

## 1.0 INTRODUCTION

### 1.1. PURPOSE

**R-Engineering EOOD**. (the Project Company) is a special project vehicle (SPV) established to build, own, and operate the St. George Solar PV Project (the Project).

An Environmental and Social Impact Assessment (ESIA) Package has been prepared for the Project. A key part of the Package is the Project Environmental and Social Management Plan (ESMP) as described in this document.

The purpose of this ESMP is to:

- Provide an overview of the environmental and social policies, regulations and standards applicable to the Project to all project staff, including contractors;
- Document and direct the Project Owner's personnel and guide the Engineering, Procurement and Construction (EPC) Contractor for the PV Project on how Project Environmental and Social (ESHS) risks are managed during the construction stage of the Project to conform with applicable policies, regulations and standards and ensure the Project commitments are attained. This includes (i) establishing measures to be applied, (ii) communicating requirements to project staff, including contractors, and (iii) oversite of requirements implementation, as detailed further in this ESMP;
- Document and direct construction contractor for overhead line works (OHTL) on how Project ESHS risks are managed during the construction stage of the Project to conform with applicable policies, regulations and standards and ensure the Project commitments are attained. This includes (i) establishing measures to be applied, (ii) communicating requirements to project staff, including contractors, and (iii) oversite of requirements implementation, as detailed further in this ESMP<sup>1</sup>;
- Clarify ESHS compliance assurance roles and responsibilities during the construction stage of the Project;
- Ensure that adequate processes are in place to appropriately monitor construction activities against Project ESHS policies, regulations and standards;
- Ensure reporting systems are developed and implemented to communicate ESHS compliance performance to Project Owner's leadership and further to all project staff, including contractors; and
- Facilitate continual improvement and ESHS compliance assurance.

This ESMP details the ESHS management processes associated with the construction and commissioning stages of the Project. This ESMP and associated management plans will be revised to accommodate any new mitigation required and reflect lessons learned from the ESHS monitoring.

The ESMP will be subsequently updated and revised as appropriate for the operational stage of the Project to reflect the different ESHS risks at that stage and any lessons-learned to date – referred to as the Operation-ESMP. The Operation-ESMP, along with supporting operational management plans, will be drafted during the end of the construction stage and disclosed not later than two months before the start of St. George Solar PV Project commercial operations.

This ESMP provides an overview of the processes to identify, avoid, mitigate, and manage Project ESHS risks during construction. The ESMP is the central document of the Project ESHS management system and is supported by a series of subordinated ESHS management plans and procedures implemented at Company and Contractor levels:

<sup>1</sup> The final structure of the ESMP between the solar PV EPC Contactor and the overhead line contractor will be defined in the EPC Contractor plans based on the specific contracting structure.



- Project Owner Level ESHS Management Plans see Figure 3 in section 2 for an overview of the various management plans. These plans lay out the processes implemented by R-Engineering EOOD to ensure Project policies, standards and commitments are attained during the construction stage of the Project and guide the EPC Contractor on the requirements and management plans to be implemented for the Project as part of their ESHS management system.
- Contractor Level ESHS Management Plans referred to in this ESMP as Contractor Management Plans (CMP) – see section 2.5 for an overview of the ESHS management plans to be put in place by the EPC Contractor to ensure implementation of the Project policies, standards and commitments during own Project construction activities.

#### Box 1.1 Project ESHS risks management approach

The management of the Project's ESHS risks will follow a "cascade" approach, reflecting good international practice:

- The guiding plans and policies are outlined in this ESMP and related Project Owner Level Management Plans;
- EPC must on this basis develop their own EPC-ESHS Plan (to be approved by R-Engineering EOOD) and Contractor Level Management Plans and method statements;
- EPC must implement and enforce the EPC-ESHS Plan measures in their own activities and those of any of their subcontractors and other service providers;
- EPC undertakes periodic monitoring of EPC-ESHS Plan implementation (and reports to the Project Owner);
- Project Owner conducts its own overall monitoring of the EPC performance (and reports to Lenders);
- Lenders and external advisors conduct independent Project ESHS audits.

Updates/revisions to the ESMP and the EPC-ESHS Plan will be implemented as appropriate to reflect the ongoing findings of the monitoring and audits performed, as well as the corresponding staff training. This approach provides for a robust system with continual improvement of Project ESHS risk management.

## 1.2. THE ST. GEORGE SOLAR PV PROJECT

The developer is Rezolv Energy (the "Company"), an independent clean energy power producer funded by Actis Eastern Europe Energy S.a.r.l. (https://www.act.is/). Rezolv Energy has set up a special project vehicle (SPV) as the Project Company named R-Engineering EOOD as the entity responsible for the development of the St. George PV Project (Phase I and Phase II) (hereafter described as the "PV Project"). In addition to the PV Project, two 110 kV overhead lines (OHTL) will be constructed by the Project to evacuate power to the national grid ("OHTL Project"); together, the PV Project and the OHTL Project are considered the "Project".

For development purposes, the PV Project has been split into two "phases" or "PV power plants" to be built over relevant parts of the Project Site:

- (i) Phase 1 PV power plant with a capacity of 99,5 MWAC "St. George East"
- (ii) Phase 2 PV power plant with a capacity of 99,5 MWAC "St. George West"

The combined phases will have an overall installed capacity of approximately 229MWp.

The PV Project is located in northeast Bulgaria, on the land of the village of Polkovnik Lambrinovo, 5 km south of Silistra in the Silistra District. The Project is located on the site of a former airport, including a 2.5



km runway, a passenger terminal, adjacent infrastructure, and a former military airfield. The land was used by Silistra Airport, which was closed in 2000. The site is located on flat terrain with very minor undulation along the border. The site has a good tarmac road and is connected to Silistra town (approximately 12 km distant) via Route 218 and Route 21. The nearest major international airport and port is in the City of Varna, which is situated approximately 140km from the project via Route 29, Route 71, and Route 207. The majority of the land around the site is agricultural. The PV Project coordinates are as follows:

- Latitude: 44.054837 o
- Longitude: 27,183113o
- Altitude: 122 m.a.s.l

The PV Project consists of the following components which are described in more detail in the ESIA.

- PV Plant Phase I on land plots of 151,2765 ha
- PV Plant Phase II on land plots of 104,51 ha
- Step-up Substation (SUS) one substation with two step-up transformers
- Hub substation located near the village of Smilets (HUB)
- Low Voltage (LV) cables and LV/MV power stations and transformers.

The OHTL Project includes:

- 110 kV double circuit OHTL "Pelikan" connecting to existing 110 kV OHTL "Silistra to Tutrakan" via "loop in loop out" "LILO" connection.
- 110 kV double circuit OHTL "Dorostol" connecting to existing 110 kV OHTL "Silistra to Dorostol" via "LILO connection.

A Project location map is provided in Figure 1 overleaf.







Figure 1: St. George Solar PV Project Location Map



## 1.3. PROJECT RECEPTORS

The nearest villages from the PV Site and OHTL route are:

- Polkovnik Lambrinovo adjacent to the site
- Smilets approx. 1,9 km
- Tsenovich approx. 3,5 km
- Kalipetrovo approx. 2,8 km
- Aydemir approx. 3,6 km
- Silistra approx. 5,7 km
- Babuk approx. 6.0 km (village centre)

The approximate boundaries for the administrative areas of each village are depicted in Figure 5. Most of the land around the site is agricultural and other receptors include agricultural users, farm workers and road users.





Figure 2: Towns and villages administrative areas (approximate)

The residential areas are further illustrated below.



# Figure 3: Residential areas in the direct AOI.

The project is located outside the boundaries of any natural protected area, the closest natural protected area being the BG0000169 Ludogorie – Srebarna (L-S Project Area) which comes within 10m of the protected area as per figure below.



Figure 4: Nearest Protected Area

# 2.0 ST. GEORGE SOLAR PV PROJECT ESHS MANAGEMENT SYSTEM

# 2.1. PROJECT OWNER'S MANAGEMENT SYSTEM CONCEPT

The Project ESHS Management System is based on a four-step iterative process aligned with the Plan-Do-Check-Act model, as represented in Figure 2 overleaf. The concept reflects an adaptive management loop that accommodates changes that occur as the Project moves through the various implementation stages.

All of the main activities corresponding to the above four components of the Project ESHS management system are described in the following sections of this ESMP (to facilitate reader orientation, the respective stage of **[PLAN]**, **[DO]**, **[CHECK]**, **[ACT]** is indicated at the subsection headings).

The Plan-Do-Check-Act model was transposed in the Project's ESHS Management System following a staged approach, organized in three levels (from A to C), as represented in Figure 5.

This process is initiated with the identification of the applicable requirements, regulations and standards and the definition of the principles and leadership commitments stated in the R-Engineering EOOD Code of Conduct & Business Ethics and ESHS Policies<sup>2</sup>. Subsequently, the Project's ESHS risks and impacts were identified and assessed based on the ESIA package of studies performed for the St. George Solar PV Project. The ESIA identified the embedded ESHS controls<sup>3</sup> and defined the mitigation measures required to address the residual ESHS impacts and ensure that the Project requirements, regulations and standards are met. Addressing the ESHS risks and impacts represents a Project commitment, specifically a commitment by the Project Owner to ensure that these measures will be implemented during the Project execution – either by the Project Owner themselves or via the EPC or other parties.

The ESHS mitigation measures that resulted from the ESIA process were transposed into a Commitments Register, serving as a tool which informs this ESMP and the subordinated ESHS management planning and processes to be implemented at the various levels of the Project organization.

This ESMP is a critical component of the Project ESHS risk management system, providing an overview of the processes and tools to manage Project ESHS risks within the frame of the Plan-Do-Check-Act model. The ESMP also sets the requirements for the management planning (operational controls, performance review and evaluation) to be established and maintained by the Project Owner and the EPC Contractors.

The above-indicated management system concept and the relationship between the ESMP, the Project requirements, regulations and standards (see section 2.2), and the management plans at the various levels of the Project ESHS Management System is listed in section 2.4 blow.

<sup>22</sup> Drafting note: Currently under development

<sup>3</sup> The term "Embedded Controls" refers to those protective measures that are anyhow already included in the approved Project Design, such as high-efficiency boilers, air filters, wastewater treatment, etc. – therefore such items do not normally need to also be added as a further commitment.





(Numbers in brackets indicate the ESMP chapters detailing the respective topics)

Figure 5: St. George Solar PV Project ESHS Management System Process



## 2.2. PROJECT REQUIREMENTS, REGULATIONS AND STANDARDS [PLAN]

R-Engineering EOOD and its EPC Contractors are required to meet a number of key ESHS requirements, regulations and standards as outlined below. This ESMP is intended to support the transposition of these standards into Project implementation.

These Project requirements, regulations and standards represent the basis of the Project ESHS management system and are represented in Figure 3 – Level A.

The Project requirements, regulations and standards are explained below. The Owner and the EPC Contractor will maintain a register outlining all legislative and other requirement relevant to the Project and keep this updated regularly.

## 2.2.1 PROJECT OWNER'S CODE OF CONDUCT AND POLICIES

R-Engineering EOOD will develop a set of overarching ESHS company policies, as listed below, and has committed to implementing these on the Project to guide and ensure conformance to the Project Requirements, Regulations and Standards. These apply to all activities, including the construction works program and all staff working on the Project:

- Worker Code of Conduct and Business Ethics;
- Environmental and Social Policy; and
- Health and Safety Policy.

These policies establish the framework for the Project's environmental, social, health and safety management processes as further developed and defined within this ESMP.

## 2.2.2 NATIONAL LEGISLATION AND PERMITTING

Appendix A summarises key environmental legislation documents applicable to St. George Solar PV Project.

The Project Owner and its EPC Contractor will comply with all national laws, regulations and codes of practice requirements and fulfil all applicable regulatory requirements.

To ensure this, the Project Owner will maintain a Legal Register (F001) and Permit and Conditions Register (F002) throughout the project life cycle to consolidate all applicable environmental and social compliance obligations for the St. George Solar PV Project.

The EPC Contractor will set up a process for tracking and implementing any relevant regulatory changes and requirements updates for their activity.

The **Permit register** constitutes an integral part of the EPC Contract. The up-to-date version of the register (updated as changes occur) is available at all times for both the Project Owner and the EPC Contractor though the document sharing and communication platform established for the Project.

## 2.2.3 EU AND INTERNATIONAL LEGISLATION

#### International conventions and protocols

International conventions ratified by Bulgaria and relevant to the St. George Solar PV Project include the following:

- United Nations Economic Commission for Europe (UNECE) Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters 1998, ratified by Law no. 86/2000 (Aarhus Convention);
- The Kyoto Protocol on Climate Change (UNFCC)
- The United Nations Convention on Biodiversity 1992 ratified by Law no. 58/1994
- Convention on the Conservation of European Wildlife and Natural Habitats, 1979, ratified by Law no. 13/1993 (Bern Convention);
- Convention on Conservation of Migratory Species of Wild Animals, 1979, ratified by Law no. 13/1998 (Bonn Convention);
- International Union for Conservation of Natural Resources Red List of Threatened Species
- European Convention on the Protection of the Archaeological Heritage, 1992, ratified by Law no. 150/1997 (La Valetta Convention);

- European Landscape Convention, 2000, ratified by Law no. 451/2002 (Florence Convention);
- The Basel Convention 1989
- The International Labour Organisation's Core Conventions;

Additional details on the above-indicated international conventions and protocols are provided in Appendix A.

#### International Environmental and Social Policies and Standards

The international environmental and social policies and the key good international industry practice standards applicable to the Project are:

- International Financing Corporation (IFC), Performance Standards (PS) (2012);
- IFC Environmental, Health, and Safety Guidelines for Electric Power Transmission and Distribution (2007);
- World Bank Group, General Environmental, Health, and Safety Guidelines (2007); and
- IFC/EBRD Guidance Note: Worker's Accommodation: Processes and Standards (2009);
- Voluntary Principles on Security and Human Rights.
- IFC Good Practice. Managing Contractors' Environmental and Social Performance

### 2.3. ESHS COMMITMENTS REGISTER

Upon completion of the ESIA process, the mitigation measures addressing the project's potential impacts as defined in the ESIA package were transferred into an **ESHS Commitments Register** (the Commitments Register) (Appendix B).

The **ESHS Commitments Register** consolidates the applicable ESHS mitigation measures defined in the ESIA package as actionable measures, management and monitoring activities for implementation during Project execution stages.

The **ESHS Commitments Register** was developed in an easily understandable format, allowing it to be used as a tool by the Project ESHS staff during Project execution. For ease of use and implementation, the Commitments Register is organized to provide for each commitment indication on:

- the Project stage (i.e. construction and operation) the respective commitment applies to,
- responsibility for implementation (i.e. Project Owner or EPC or both),
- Project location/site the respective commitment applies to, and
- the Project Owner's and EPC management plan ensuring implementation of the commitment.

In turn, the Commitments Register informs the Project Owner and the EPC Contractors' Management Plans, which detail the resources and processes to be implemented to ensure the implementation of the commitments.

A printout of the Commitments Register represents an integral part of this ESMP and is provided in Annex 2 of this document. The ESHS Commitments Register includes, in the case of each item, indication of the management plan(s) ensuring the implementation of the respective commitment.

## 2.4. PROJECT OWNER-LEVEL ESHS MANAGEMENT PLANS [PLAN]

The Project Owner is overall responsible for implementing the Project ESHS mitigation measures. To ensure this, a Project ESMP (this document) and supporting topic specific ESHS Management Sub-Plans are developed setting out the Owners minimum requirements in all areas as well as the Project ESIA commitments. These are produced to facilitate the implementation of Project commitments,

requirements, regulations and standards by the Owner and EPC Contractor as applicable and as defined in the plans.

A key objective of the Company sub-ESMPs is to provide the Contractors with the standards/outcomes to be met to enable them to develop their own more specific plans, procedures, and design to demonstrate how this will be achieved in practice. The EPC Contractor must provide all plans four weeks prior to the start of construction.

The Project Owner-level Construction Phase Management Plans are the following:

- Construction ESMP (St\_GEORGES\_ESMP\_00)
- Corporate social responsibility Plan (St\_GEORGES\_ESMP\_02\_CSR)
- Pollution Prevention and Control Plan (including noise, dust, Haz materials, effluent wastewater) (St\_GEORGES\_ESMP\_03\_PPCP)
- Biodiversity Management and Monitoring Plan (St\_GEORGES\_ESMP\_04\_BMMP)
- Waste Management Plan (St\_GEORGES\_ESMP\_05\_WMP)
- Labour Management Plan (St\_GEORGES\_ESMP\_06\_LMP)
- Chance finds procedure (St\_GEORGES\_ESMP\_07\_CFP)
- Stakeholder Engagement Plan (St\_GEORGES\_ESMP\_08\_SEP)
- Occupational health and safety plan (St\_GEORGES\_ESMP\_09a\_OHSMP)
- Community health and safety plan (St\_GEORGES\_ESMP\_09b\_CHSMP)
- Traffic Management Plan (St\_GEORGES\_ESMP\_10\_TMP)
- Emergency preparedness and response plan (St\_GEORGES\_ESMP\_11)
- Contractor Management Plan (St\_GEORGES\_ESMP\_12)
- Livelihoods Restoration Plan (St\_GEORGES\_ESMP\_13)

Supporting forms and templates developed as part of the project ESMS for implementation of the ESMP and supporting management plan requirements are as follows:

- Legislation register (St\_GEORGES\_ESMS\_Forms\_F01)
- Permit matrix (St\_GEORGES\_ESMS\_Forms\_F02)
- Conditions matrix (St\_GEORGES\_ESMS\_Forms\_F03)
- Inspection and audit plan (St\_GEORGES\_ESMS\_Forms\_F04)
- Training matrix (St\_GEORGES\_ESMS\_Forms\_F05)
- Monitoring matrix (St\_GEORGES\_ESMS\_Forms\_F06)
- Monthly E&S reporting (construction) (St\_GEORGES\_ESMS\_Forms\_F07)
- Incident reporting form (St\_GEORGES\_ESMS\_FormsS\_F08)
- Corrective Action Plan (template) (St\_GEORGES\_ESMS\_Forms\_F09)
- Register of project documentation (St\_GEORGES\_ESMS\_Forms\_F10)
- Contractor evaluation form (St\_GEORGES\_ESMS\_Forms\_F11)
- Register of land needs (RE\_ESMS\_F12)
- Monthly E&S reporting operation (St\_GEORGES\_ESMS\_Forms\_F13)
- Community grievance form (St\_GEORGES\_ESMS\_Forms\_F14)
- Community grievance log (St\_GEORGES\_ESMS\_Forms\_F15)
- External consultation Log (St\_GEORGES\_ESMS\_Forms\_F16)

The Project ESHS Management Sub-Plans detail the management and implementation processes required to achieve minimum requirements aligned with GIIP, ESIA commitments, and legislative and

other requirements, regulations and standards. The main roles of the Project ESHS Management Plans are to:

- Define the processes in place to ensure that the Project Owner as an organization implements the Project commitments, requirements, regulations, and standards under their direct responsibility.
- Define the compliance and assurance processes, ensuring that the work planned and performed is conducted according to the Project ESHS commitments, requirements, regulations and standards.
- Ensure that the Project Owner implements ESHS oversight of the EPC Contractors to measure the effectiveness of their self-verification processes with ESHS commitments, requirements, regulations and standards;
- Define and communicate to the EPC Contractors the minimum requirements regarding the specific management procedures they must implement during Project execution as defined by GIIP and the ESIA.

The Project Management Sub-Plans will be include but not be limited to the content outlined the following table.

No.	Project ESHS Management Plan	Aspects covered	
003	Pollution Prevention and Control Plan (noise, dust, effluent discharges, hazardous materials management	<ul> <li>General pollution prevention and protection measures</li> <li>Pollution prevention and protection measures at hazardous materials storages, such as bunding storage areas, tank overfilling prevention measures, etc.</li> <li>Spill prevention containment measures around sensitive equipment, installation of appropriate spill clean-up equipment and development of response procedures</li> </ul>	
		<ul> <li>Measures at source to prevent pollutants from entering the pathway</li> <li>Actions to be followed in case pollutants enter the pathway</li> <li>Management of spill-contaminated soil</li> <li>Wastewater discharge and management</li> <li>Construction dust mitigation and monitoring</li> <li>Noise management, <ul> <li>Noise abatement/mitigation measures</li> <li>Noise monitoring</li> </ul> </li> <li>Hazardous materials storage and handling</li> </ul>	
004	Biodiversity Management Plan (inc. AIS ad topsoil management)	<ul> <li>Plan for implementing mitigation measures identified in the ESIA related to the Project's impact on biodiversity.</li> <li>Mitigation strategy (how the mitigation hierarchy has been followed)</li> <li>Requirements for pre-construction check surveys</li> <li>Management and monitoring measures during the construction phase of the project</li> <li>Roles and responsibilities</li> <li>Measures to avoid the introduction and/or spreading of invasive alien species</li> </ul>	
005	Waste Management Plan (for site and for disposal and management of demolition waste)	<ul> <li>Non-hazardous and hazardous waste management, including:         <ul> <li>Waste hierarchy implementation (i.e. reduction at source, reuse, recycling, energy recovery, responsible disposal);</li> <li>Identification and classification of wastes;</li> <li>Waste register;</li> <li>Waste handling (i.e. collection, segregation and containers, storage, treatment, transport and documentation, disposal);</li> </ul> </li> </ul>	

Table 2-1 Project Owner-level Construction ESHS Management Plans



No.	Project ESHS Management Plan	Aspects covered
		<ul> <li>Waste duty of care process (waste transfer, waste consignment provisions);</li> <li>Monitoring and reporting.</li> </ul>
006	Labour Management	Training and skill development activities;
000	Plan	<ul> <li>Employee grievance mechanism;</li> </ul>
		<ul> <li>Camp and worker accommodation management aspects</li> </ul>
		<ul> <li>Measures for fair treatment, non-discrimination, and equal opportunity in employment.</li> </ul>
		<ul> <li>Requirements related to the provision of safe and healthy working conditions and the health of workers</li> </ul>
		• Management of potential communicable diseases associated with the construction workforce.
		• Behavioural code of conduct for workers when outside of work and interaction with the local community
		Contractor employment practices conformance, reporting and monitoring
		• Management measures related to child labour, forced labour, and third-party workers.
007	Chance Finds	Chance finds procedure
	Procedure	<ul> <li>Chance finds training, management and response</li> </ul>
		<ul> <li>Interface and coordination with relevant authorities</li> </ul>
800	Stakeholder	Stakeholder identification and mapping
	Engagement Plan	Stakeholder analysis
	(including external grievance	Previous engagement activities
	mechanism)	<ul> <li>Stakeholder engagement plan and record-keeping</li> </ul>
		Grievance mechanism
		Monitoring and evaluation
		Internal and external reporting
		Roles and responsibilities
		•
		•
007	Security	<ul> <li>Security arrangements roles and responsibilities</li> </ul>
	Management Plan	• Site access (project personnel identification, visitors identification, vehicles identification etc.)
		Security-related communication arrangements
		Interface with host government agencies and public security forces
		Provisions to ensure compliance with regulations and good industry practice regarding:
		<ul> <li>Security personnel selection and employment</li> <li>Security personnel rules of conduct</li> </ul>
		<ul> <li>Security personnel rules of conduct,</li> <li>Security personnel training, equipment</li> </ul>
		<ul> <li>Monitoring of compliance and investigation process of non-compliance acts</li> </ul>
		Security training program including:
		<ul> <li>Code of Conduct modules specific to security personnel</li> </ul>
		<ul> <li>Voluntary Principles on Security and Human Rights</li> </ul>
		Grievance mechanism
009	Occupational Health	Safety principles and philosophy
a and Safety • H&S policies and commitments		
	Management Plan	Project H&S objectives
	1	H&S management system structure



No.	Project ESHS Management Plan	Aspects covered
		<ul> <li>H&amp;S leadership, organization, competence, communication</li> <li>Contractors H&amp;S management</li> <li>PPE requirements and enforcement</li> <li>Non-conformances and incident reporting, investigation and lessons learned</li> <li>H&amp;S audit &amp; review</li> <li>H&amp;S performance monitoring/ improvement</li> <li>H&amp;S records and documents control</li> </ul>
009 b	Community health and Safety Management Plan (including Project Security Management Plan	•
010	Traffic Management Plan	<ul> <li>General management plan defining common control measures, standards and procedures for construction traffic management aimed at guiding contractors on applicable construction traffic planning and management requirements.</li> <li>Site access and haulage routes (for general and over-dimensioned vehicles)</li> <li>Road traffic management including on-site and off-site/public roads speed limits, vehicle inspection requirements, operating rules and procedures</li> <li>Dust, air emissions, noise abatement requirements and measures</li> <li>Access roads management</li> <li>Road-related accidents prevention</li> <li>Local traffic signage</li> <li>Timing of deliveries</li> <li>Road's closure</li> <li>Road's cleaning</li> <li>Abnormal load road safety and management requirements</li> <li>Communication in advance of heavy and abnormal load construction traffic through communities</li> <li>Training of drivers and equipment operators</li> <li>Community awareness program on traffic-related risks, in line with SEP provisions</li> <li>Monitoring system</li> <li>Internal monitoring and reporting</li> </ul>
011	Emergency Preparedness and Response Plan	<ul> <li>Contractor traffic and transportation management planning requirements.</li> <li>Provision of a consistent and systematic approach to ensure effective control and management of emergencies that may be encountered during project development on project sites.</li> <li>roles and responsibilities, chain-of-command and communication framework</li> <li>decisional workflow in case of emergency</li> <li>different emergency tiers response teams:</li> <li>notification procedure</li> <li>potential emergency scenarios and their management</li> <li>media and public relations during emergency</li> <li>training and drills requirements</li> <li>emergency contact details</li> </ul>
012	Contractor Management Plan	<ul> <li>Subcontractor pre-qualification criteria</li> <li>Subcontractor onboarding requirements</li> <li>Define the approach to managing the E&amp;S performance of contractors, subcontractors, and other third parties during the various phases of the project.</li> <li>Program for audit of E&amp;S performance of EPC contractors and subcontractors, specifying the frequency of audit (at least monthly during the construction phase), reporting and roles and responsibilities</li> </ul>

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#### **Environmental and Social Management Plan**

No.	Project ESHS Management Plan	Aspects covered
013	Livelihoods Restoration Plan	<ul> <li>Livelihood restoration principles and activities</li> <li>Eligibility and entitlements</li> <li>Planning and implementation</li> <li>Monitoring and evaluation</li> <li>Accidental damages compensation process for future unforeseen impacts.</li> </ul>

## 2.5. CONTRACTOR-LEVEL ESHS MANAGEMENT PLANS [PLAN]

The EPC Contractor is responsible for the implementation of the ESHS mitigation associated with the execution of the Project construction activities as defined by the Owner management plans.

To ensure this, the EPC Contractor is required to define and implement their own ESHS compliance monitoring and assurance processes for the Project. These will be outlined in EPC Environmental and Social Management Plan (EPC-ESHS PLAN) and topic-specific Contractor Management Plans (CMP).

CMP, in the sense used throughout this ESMP is the generic term for the Management Plans, Procedures and Method Statements defined and implemented by contractors and incorporating the mitigations addressing the specific ESHS impacts associated with their operations, as guided by this ESMP and the Project Owner-level ESHS Management Plans.

These ESHS Management System components are represented in Figure 6 – Level C and referred to as Contractor Management Plans (CMP).

The EPC Contractor is required to ensure that all requirements set in the Project-level ESHS Management Plans, and which are relevant to the EPC and their subcontractors' activities are transposed and detailed in the EPC-ESHS PLAN and the CMPs.

The CMPs will be compliant with the ESIA package documents, the Commitments Register, the Project Requirements Regulations and Standards referred to in section 2.2 of this ESMP including national and EU regulations, EBRD PRs and IFC PSs and provided prior to the start of construction.

The Project Owner will review and approve the EPC-ESHS PLAN and the CMPs in line with the Project documents approval process.

No construction work is allowed to be performed by the EPC or its subcontractors until the EPC-ESHS Plan and CMPs are pre-approved by the Project Owner and the Lender, in line with the Project's formal documents approval process and the Project Environmental and Social Action Plan (ESAP).



# 2.5.1 EPC CONTRACTOR ESHS PLAN (EPC-ESHS PLAN)

The EPC-ESHS Plan is the operational control document defining EPC Contractor's self-verification and assurance processes to ensure the Project ESHS commitments are implemented at site level.

The EPC-ESHS Plan will detail the roles and responsibilities, the self-verification and assurance processes put in place at the EPC organization level to ensure the requirements of this Project ESMP and the ESHS Commitments are met. This will include all aspects related to staffing, roles and responsibilities, resources, self-verification and assurance processes, communication, and management of non-conformances.

The EPC-ESHS Plan will be structured to provide the information in the following table.

EPIC-HSE Plan Suggested Sections	EPC-ESHS Plan Required Content
Introduction	<ul> <li>Purpose &amp; objective</li> <li>Reference to EPC ESHS Policies and Procedures</li> <li>Applicable ESHS Requirements, Regulations and Standards</li> </ul>
Project ESHS Management	<ul> <li>EPC Project ESHS management concept</li> <li>EPC ESHS Project management documents (EPC-ESHS Plan, CMPs, Subcontractor Method Statements, ESHS requirements etc.)</li> </ul>
Project Organization	<ul><li>Overall EPC ESHS Project Organization</li><li>EPC ESHS Staffing, Roles and Responsibilities</li></ul>
ESHS Management Controls	<ul> <li>EPC ESHS Self-verification (daily/weekly etc., oversight inspections of own and subcontractor activities, joint inspections with Project Owner, monitoring etc.)</li> <li>EPC ESHS Assurance (internal and external audits, management review etc.)</li> <li>Action Tracking System (system for recording and monitoring of ESHS corrective actions/measures until closure)</li> <li>Non-conformity Notification, Recording and Corrective Action (ESHS NCR system)</li> <li>ESHS Incident Reporting and Investigation</li> <li>ESHS Monitoring Program</li> <li>ESHS Reporting (daily, weekly, monthly, KPI reporting etc.)</li> <li>ESHS Documentation Management (ESHS records management)</li> </ul>
Subcontractors Management	<ul> <li>Roles &amp; responsibilities</li> <li>Subcontractor ESHS management planning/method statement requirements</li> <li>Subcontractor requirements for ESHS self-monitoring and reporting to EPC</li> </ul>
Communication Arrangements	<ul> <li>Internal Project communication arrangements (EPC – Project Owner communication)</li> <li>External communication (communication with authorities, external Project stakeholders, etc.)</li> <li>Emergency communication arrangements</li> </ul>
ESHS Training Program	<ul><li>Types of ESHS training</li><li>Training planning, delivery and tracking</li></ul>
Change Management <sup>4</sup>	<ul> <li>ESHS Change Management Process (interfaces with overall Project Change Management process)</li> <li>ESHS assessment of Project/Design changes.</li> </ul>

Table 2-2 EPC-ESHS Plan content

<sup>&</sup>lt;sup>4</sup> A process for requesting, determining feasibility, planning, implementing, and evaluating Project changes.

The structure provided in the table above is a suggestion only. While the EPC may alter the structure of the HSE Plan as needed to align with its management system requirements, the above-indicated content is to be included as a minimum and in a user-friendly and fit-for-purpose format.

## 2.5.2 EPC CONTRACTOR HUMAN RESOURCES POLICY

The EPC Contractor will also provide overarching human resources (HR) policies demonstrating compliance with legal and other requirements stipulated in this ESMP (e.g. IFC PS2). The policy will include detailed information on workforce induction, information on rights, child and forced labour, equal opportunity, migrant workers, promotion of local employment opportunities, labour unions, worker accommodation requirements, provision for retrenchment plans, security personnel, influx management etc. The EPC Contractor will ensure that core labour requirements align with legislation and other requirements and are cascaded down to contracting chains to all subcontractors and suppliers of core materials. The EPC Contractor must be able to evidence this transfer of responsibilities down the contracting chain. Each sub-contractor must demonstrate an HR Policy aligned with the EPC HR Policy.

# 2.5.3 EPC CONTRACTOR CONSTRUCTION MANAGEMENT PLANS (CMP)

The CMPs required to be put in place by the EPC Contractor will generally mirror the topics addressed in the Management Plans set at Project owner level (see Figure 3 – Level B). However, the CMPs are required to present further site-specific implementation details, i.e., how the EPC Contractor and its subcontractors will implement the requirements outlined in the corresponding Project-level Management Plans and in the EPC Contract.

As indicated above, to allow flexibility to the EPC Contractor in defining procedures in line with their own management system process, the mitigation measures addressing the specific ESHS impacts may be defined in Management Plans, Procedures and Method Statements (generically referred to herein as CMPs), as deemed appropriate by the EPC Contractor. However, the EPC Contractor is to ensure that CMPs addressing the below-indicated specific topics are defined and implemented throughout the Project execution:

- Environment, Pollution Prevention and Control CMP (including, among others, air, noise, water supply and wastewater, biodiversity, spill prevention, contaminated land and hazardous materials management)
- Topsoil Management and Site Reinstatement CMP
- Waste Management CMP
- Chance Finds Procedure (pertaining to earthworks operations).
- Labour MP (including employment, working conditions and worker accommodation aspects)
- Traffic and Transport (Logistics) CMP (including social impacts register)
- Occupational Health and Safety Management Plans and Procedures
- Emergency Preparedness and Response CMP
- Security Management CMP (general/applicable Project-wide and site-specific, as needed).
- Subcontractor Management CMP (for management of EPC second and third-tier subcontractors and subcontractor management of their subcontractors)

In defining the mitigation and management measures to be covered by the above-indicated CMPs, the EPC Contractor will use as guidance, in addition to the present ESMP provisions the Project ESIA and the Commitments Register provided in appendix to this ESMP.

St. George Solar PV Project stakeholder engagement activities and community relationships will be managed by the Project Owner in line with the Project Stakeholder Engagement Plan (008). While contractors are not required to perform Project-related stakeholder engagement, the Project Owner will work with the contractors to ensure that their CSR-related activities will align with those the Project Owner envisaged, as applicable.

The EPC ESHS CMPs will be informed by the Project (Company)-level ESHS Management Plans (refer to section 2.6 above) and shall be generally structured to provide the following information:

- Objectives of the management plan/purpose and scope,
- Reference documents (indication of other Project-level documents and EPC CMPs of relevance for the management plan; reference to relevant applicable standards);
- Identification of Project activities/operations associated with the impacts addressed by the respective CMP and triggering the implementation of all or part of the respective CMP requirements;
- Description of management practices employed to implement impact mitigation and ensure accomplishment of related commitments;
- Roles and responsibilities;
- Subcontractors' requirements (including those addressing ESHS aspects in the subcontractor method statements);
- CMP requirements implementation monitoring and reporting; staff training needs.

## 2.6. OPERATIONAL ESHS MANAGEMENT FRAMEWORK

This section provides a framework for the ESHS Management planning to be put in place for the operational stage of the Project. The ESHS Management during operation will ensure that the mitigation measures to be implemented at the operational stage as defined in the Project ESIA and all ESHS commitments applicable at the operational stage are met.

It is envisaged that for the management of the ESHS aspects associated with the operation stage, a similar approach to the management processes detailed in this ESMP will be considered for the ESHS management and performance monitoring.

It is currently envisaged that the operation-stage ESHS Management Framework will comprise the following topic-specific ESHS management aspects:

- Pollution Prevention Management Plan (including, among others, noise, spill prevention, contaminated land and hazardous materials management)
- Site Reinstatement Monitoring Plan
- Occupational H&S Management Plan
- Emergency Preparedness and Response Plan.
- Stakeholder Engagement Plan;
- Community Investment Plan.
- Livelihood Restoration plan (if ongoing obligations are applicable)

These operation-stage management plans will be based on the construction management plans, modified based on lessons learned and anticipating the activities of the operations phase. It is expected that the operation stage ESHS management planning documents will be more concise and targeted specifically at the operation of the solar PV site.

The structure of the operational stage management plans will generally follow the requirements applicable for the construction management plans as specified in this ESMP, adapted to meet operation stage risks and issues as needed.

The above-indicated framework is indicative at this stage and will be refined at the stage of the operational readiness planning. The ESMP will therefore be updated in response to this, not later than 2 months before the St. George Solar PV Project enters operation.

# 3.0 ESHS PROJECT ORGANISATION

## 3.1. ESHS MANAGEMENT PROJECT ORGANIZATION

The Project Owner's ESHS management roles are represented in Figure 4<sup>5</sup> with the support of thirdparty specialists (social, biodiversity) for implementation of the requirements of the ESIA.



Figure 6: Project Owner's Project ESHS Organization Chart

## 3.2. PROJECT OWNER'S ESHS ROLES AND RESPONSIBILITIES [PLAN]

The Project Owner is ultimately responsible for ensuring that all Project activities comply with the Project ESHS policies, regulations and standards. The Project Owner will therefore establish an appropriate organizational structure, responsibilities, practices and will ensure the resources necessary for the ESHS management during the Project execution. Indicated staff may sit within Project Owner or may be part of the Owner's Engineer organization.

Specific main responsibilities of key Project Owners staff are summarized in Table 3-1 below. The staff job descriptions detailing individual responsibilities will be aligned with the requirements summarized herein.

Role	Responsibility
Senior	Overall accountability for the Project including delivery in line with applicable

<sup>5</sup> Names to be completed for next revision prior to start of construction

Role	Responsibility
Management	national and international standards.
	• Ensures allocation of sufficient resources for the ESMP implementation including for ESHS organization, permitting, training, equipment and qualified personnel.
	• Ultimate responsibility for ensuring implementation of required corrective actions including in response to identified ESHS non-compliances or incidents.
	• Ensures periodical review of the ESMP effectiveness in line with the provisions of this plan.
ESHS Manager	• Appropriately qualified professional familiar with ESHS aspects associated with internationally financed projects implementation.
	<ul><li>Performing duties both at corporate level and partially on site.</li><li>Site based full time</li></ul>
	• Provide ESHS resources for implementation of the Project ESHS management requirements.
	• Responsible for identifying any ESHS specialised expert support required at various project implementation stages and sourcing these as needed;
	• Inform EPC and Contractors on ESHS responsibilities as defined in this ESMP and detailed in the topic-specific Management Plans and ensure these are understood and implemented throughout all stages.
	• Ensure that ESHS risks are systematically identified and managed (assessed avoided or mitigated)
	Ensure the review and acceptance by Project Owner of EPC Contractor ESHS Management Plans
	• Ensure the ESHS oversight of EPC Contractors including training, auditing and corrective actions.
	• Manage the ESHS team's budget and ensure that ESHS team's activities are effectively executed.
	• Provide the Project management team with ESHS management advice, guidance and assurance.
	• Communicate the content of this ESMP (including any updates) to the Project Owner and EPC Contractor teams and act as the focal point to promote implementation, performance monitoring and provide guidance and support.
	Manage the review and acceptance of EPC Contractor ESHS Management Plans.
	• Inform EPC Contractors on ESHS responsibilities as defined in this plan and detailed in the Project ESHS Management Plans and ensure these are understood and implemented throughout all construction stages.
	• Act as focal point for EPC Contractor ESHS oversight in accordance with this ESMP.
	• Ensure that all ESHS-related incidents are reported and dealt with effectively and lessons learned are shared in accordance with the Project incident reporting procedure.
	• Support with organization of and participation in the review and audits of the EPC contractor ESHS performance with respect to the requirements of this ESMP.
Communications and Community	• Appropriately qualified professional familiar with social aspects associated with internationally financed projects implementation.
Relations Manager	• Performing duties both at corporate level and supporting on site CLO.
	Provide functional support to the field staff to implement the social

Role	Responsibility
Role	<ul> <li>Responsibility <ul> <li>requirements of this ESMP and of the Project Owner's management system;</li> <li>Coordinate the implementation of the Stakeholder Engagement Plan;</li> <li>Provide timely information to communities on all Project works through regular meetings with stakeholders and ensure that long term relationships are not negatively impacted.</li> <li>Provide information on potential issues with local communities and stakeholders and contribute to implementing specific measures to prevent and mitigate risks.</li> <li>Identify key stakeholders, requiring engagement in the frame of Project stakeholder engagement processes/activities and update regularly the stakeholder mapping in response to stakeholders' activities, and their relationship with the Project.</li> <li>Monitor local developments with potential to impact Project activities, and report to the Project Manager.</li> <li>Ensure that stakeholder engagement activities are documented and evidence (e.g. Minutes of Meetings) are kept on file.</li> <li>Perform regular review and monitoring of SEP implementation.</li> <li>Coordinate and manage implementation of the Project Grievance Mechanism.</li> <li>Ensure Project Grievance Committee Meetings are formally documented and recorded;</li> <li>Coordinate preparation of responses to complainants and agree content with other members of the Project Grievance Committee;</li> <li>Responsible for ensuring responses to complainants are provided in line with the Grievance Mechanism provisions</li> <li>Report to Project Management Team on grievance management.</li> </ul> </li> <li>Take active role in the in the identification of community needs and assist in the decision process regarding Project Owner's community investment program.</li> <li>Oversee Project external communications;</li> <li>Responsible for the successful implementation of Project Owner's activities to ensure they align with Project, health, safety and environmental management requirements and with the CMPs/method statements provisions</li></ul>
	Record HSE incidents and follow up on closure by EPC.
	<ul> <li>Participate in internal and external HSE audits.</li> <li>Report to the ESHS Manager on daily basis and in agreed format on all health, safety and environmental matters and activities performed.</li> </ul>
Community	Appropriately qualified local professional/local community member reporting

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Role		Responsibility
Liaison (CLO)	Officer	<ul><li>to the Communications &amp; Community Relations Manager.</li><li>Based on site permanently for the duration of the construction works.</li></ul>
		Acts as local liaison between the Project and the community/local stakeholders and maintains positive relationship with them.
		• Provide timely information to local community members on all Project works through regular meetings with stakeholders and ensure that long term relationships are not negatively impacted.
		<ul> <li>Provide information to Project management on potential issues with local communities and stakeholders and contribute to implementing specific measures to prevent and mitigate associated risks</li> </ul>
		• Take active role in identification of community needs and assist in the decision process regarding the Project's community investment program. Contribute to the successful implementation of the Project's community investment program.
		• Identify key stakeholders, requiring engagement in the frame of the Project stakeholder engagement processes/activities and support with updating regularly the stakeholder mapping in response to stakeholders' activities and their relationship with the Project.
		<ul> <li>Monitor local community developments with potential to impact Project activities, and report to the Communications &amp; Community Relations Manager.</li> </ul>
		• Support with the Grievance Mechanism implementation at field level. Assist local community members in filing their grievances as needed.
		• Report on all activities performed to the Communications & Community Relations Manager on daily basis and agreed format.

## 3.3. 3.2 EPC CONTRACTOR ESHS ROLES AND RESPONSIBILITIES [PLAN]

It is EPC Contractor's responsibility to ensure that ESHS compliance is achieved according to the requirements and processes defined in this ESMP. In attaining this objective, the EPC Contractor establishes and maintains through its own ESHS Management System a documented process to identify risks and impacts, implements adequate management measures to mitigate these in line with the Project Requirements, Regulations and Standards specified in section 2.2 of this ESMP. EPC Contractor ESHS monitoring of its own activities and its subcontractors ESHS performance is referred to as 'self-verification' and forms the first level of ESHS compliance monitoring under this ESMP.

The EPC Contractor is responsible for:

- Self-verification of its own compliance by maintaining a system to manage ESHS aspects and impacts in line with Project Owner's and its own management system requirements;
- Ensuring that all ESHS Non-conformances and incidents are reported and dealt with effectively and that lessons are learned;
- Ensuring their organizations have adequate resources and expertise for ESHS compliance monitoring and control to meet the ESMP requirements;
- Keeping the Project Owner fully informed of any ESHS issues;
- Recording and reporting monitoring observations, required actions and raising nonconformance reports where appropriate;

- Instructing own and subcontractors' staff in their responsibilities with respect to compliance assurance and incident reporting and response;
- Ensure facilitation of any grievances they may receive into the Project Grievance Mechanism
- Cooperating with the Project Owner in relation to ESHS compliance assurance activities;
- Participating in joint inspections, performance reviews and audits as required by the Project Owner;
- Providing Project Owner with access to monitoring records (including all relevant documentation and databases) as required;
- Ensuring adequate expertise, planning and resources are in place to appropriately identify ESHS risks sufficiently in advance of construction, in order to ensure compliance;
- Identifying ESHS risks as part of its planning processes and through implementation of appropriate mitigation measures and communicating these to its workforce;
- Reporting to the Project Owner on ESHS performance, including KPIs on weekly and monthly basis in a commonly agreed format;
- Maintaining updated registers that capture the range of compliance monitoring and assurance information necessary to demonstrate that Project ESHS standards are being met during construction works execution and reporting on this to the Project Owner.

To ensure implementation of the above, the EPC Contractor is required to structure their organization to include sufficient and adequately qualified ESHS staff. The EPC Contractor is responsible for determining the required number of ESHS personnel to ensure that Project ESHS policies, regulations and standards are met throughout works execution.

Furthermore, the EPC Contractor is responsible to ensure that their subcontractors implement throughout their Project activities the requirements set forth in this ESMP and subordinated plans. For this purpose, the EPC Contactor is required to put in place adequate, documented processes for supervision and monitoring of subcontractor responsibilities.

EPC Contractor's ESHS team is to include appropriately qualified personnel covering following roles (individual positions may combine multiple roles as appropriate):

- 1 x ESHS Manager(s) (responsibilities including Environmental, Social, Health and Safety, and Cultural Heritage aspects) (must be EPC employee)
- 1 X Human resource officer
- 1 x Social officer (must be EPC employee)
- 2 x Senior HSE supervisor (must be EPC employee)
- 1 x Permit to Work officer (must be EPC employee)
- 1 x HSE training officer (must be EPC employee)
- HSE Supervisors (may be EPC or subcontractor employee)<sup>6</sup>
  - Minimum of one HSE officer to 50 persons on site (per subcontractor) (day and nighttime as needed)

<sup>6</sup> Subcontractors will have their own on-site E&S staff. Subcontractors with more than 20 workers shall deploy a dedicated HSE Officer and an additional HSE Officer for each additional 50 workers deployed onsite.

- to ensure permanent presence of one HSE Supervisor on each construction work site (PC site, substations and OHTL) and each shift.
- Subcontractor HR officers (on site) where more than 20 personnel on site, the subcontractor must mobilise a project HR officer/manager for management of labour aspects.

In case, during project execution, the monitoring of EPC Contractor's ESHS performance as performed by the Project Owner indicates insufficient ESHS oversight, compliance assurance resources or practices by the EPC or subcontractors, the Project Owner is entitled to enforce required corrective actions on the EPC Contractor. This may include requiring the EPC Contractor to allocate additional ESHS staff and resources.

## 4.0 ESHS MANAGEMENT CONTROLS

## 4.1. GENERAL APPROACH

ESHS Controls in place during the Project construction stage are based on an ESHS compliance assurance (monitoring and reporting) process to ensure that ESHS Project policies, regulations and standards are met.

Project Owner's management controls ate focused on the following:

- i. implementation of the Project's ESHS Management System described in this ESMP,
- ii. implementation by the EPC Contractor of the Project Policies, Regulations and Standards,
- iii. oversight of EPC Contractor's activities, and
- iv. compliance assurance to verify that the works are performed according to the Project Policies, Regulations and Standards and in line with ESHS management system.

This ESHS compliance assurance process (including the full range of environmental, occupational health and safety, labour and working conditions, socio-economic, community safety and cultural heritage aspects) is implemented at two levels:

- First level: EPC Contractor's Self-Verification program (inspections, monitoring, reporting) to demonstrate compliance with ESHS policies, regulations and standards, and to provide evidence that EPC meets their obligations. Includes oversight of subcontractors.
- Second level: Project Owner's Oversight and Assurance activities, including subcontractor management.

Oversight is performed by the Project Owner's ESHS staff to ensure that Project Owner's own and EPC Contractor's activities (including their ESHS self-verification) are aligned with the Project standards and the provisions of this ESMP. This includes review of EPC ESHS reports, documentation, monitoring data, procedures & plans, undertaking formal site inspections and attending meetings with EPC Contractors to drive performance and address issues.

Assurance activities are performed by personnel (or specialized service providers) not directly involved in the works being checked, to provide an additional layer of assurance beyond self-verification and oversight and measure the compliance of Project activities. Assurance process comprises targeted audits and formal reviews. Assurance activities are typically detailed and focused on defined risk areas or guided by feedback from the results of the self-verification and oversight activities.

In addition to the above, independent audits of compliance with Project Requirements, Regulations and Standards and including both Project Owner's and EPC Contractor's performance are performed periodically, typically on annual basis.

The controls put in place to manage, monitor, measure and report compliance with Project ESHS policies, regulations and standards during the Project construction stage are outlined in this ESMP section.

## 4.2. EPC CONTRACTOR SELF-VERIFICATION PROGRAM [DO]

EPC Contractor is required to operate an Environmental and Social Management System (ESMS) in alignment with the principles of ISO14001 and OHSAS 18001, which requires self-verification of compliance in accordance with the plan-do-check-review cycle (ESMS accreditation to ISO14001 and OHSAS 18001, although recommended, is not a requirement).

As part of its construction works planning, EPC Contractor is required to prepare and implement an EPC EHSH Plan and topic-specific Contractor Management Plans (refer to sections 2.5.1 and 2.5.2). These


EPC Contractor ESHS management planning documents will detail how the EPC Contractor complies with the specific Project ESHS (including environmental, occupational health and safety, labour and working conditions, socio-economic, community safety and cultural heritage aspects) policies, regulations and standards through a self-verification program including:

- Performing ESHS inspections and audits of own (EPC) and subcontractors' activities;
- Performing ESHS monitoring;
- Implementation of a non-conformance and incident notification and response procedure;
- Implementation of an EPC Contractor ESHS Action Tracking System.

## 4.2.1 EPC SUBCONTRACTOR MANAGEMENT (DO)

The EPC Contractor must coordinate, supervise and monitor all its Subcontractors and ensure that safe practices are implemented, and work is conducted safely and in strict compliance with the Project Company ESMP. The EPC Contractor must prepare a Subcontractor Management Plan defining its approach to managing the ESHS performance of their contractor, subcontractors, and other third parties during the various phases of the project. The contractor management approach will be consistent with the general principles described within IFC Good Practice. Managing Contractors' Environmental and Social Performance and will include a program for audit of E&S performance of EPC contractors and subcontractors, specifying frequency of audit (at least monthly during construction phase), reporting and roles and responsibilities. The EPC must verify the sufficient subcontractor's environmental and social safety management system. Personnel from subcontractors will be treated the same way as those from the EPC Contractor.

The EPC Contractor's management team will be responsible for ensuring sub-contractor performance, including:

Adequately informing sub-contractors of the requirements of the Project ESMP (this document) and the Contractor C-ESMP and ensuring they can adhere to the requirements.

- Making sub-contractors fully aware of all the E&S and occupational health and safety (OHS) and labour rights requirements that must be adhered to through back-to-back provision contract documentation.
- Identifying the procedures for monitoring and reporting sub-contractor performance and integrating this into overall site reporting requirements.

The EPC-ESHS Management Plan must include organization charts for the roles set out above. The EPC Contractor must be able to evidence to the Owner of the subcontractor's ESHS qualification, which must be based on demonstrated capability in ESHS management. Risks and hazards associated with the subcontractor's work must be identified and addressed in the EPC Contractor ESMS.

## 4.2.2 EPC CONTRACTOR INSPECTIONS AND AUDITS

To provide assurance that the provisions of the topic-specific management plans/method statements are implemented effectively, EPC Contractors are required to implement a program of documented inspections and audits at Project sites and the associated facilities addressing own activities and those performed by subcontractors.

This includes undertaking walk-around inspections during construction works execution to visually monitor that mitigation measures are implemented, undertaking joint inspections with the Project Owner, and engagement with project-affected parties, stakeholders and regulators. These activities will also include, in addition to the ESHS matters, inspection of subcontractors' workforce management aspects (including labour and working conditions and workers accommodation) against Project Requirements, Regulations and Standards with quarterly frequency.

EPC Contractor's internal audits will be performed in line the EPC Contractor's management system procedures as approved by the Project Owner. As a minimum ESHS internal audits are to be performed by the EPC Contractor on annual basis. Focused audits or performance reviews addressing specific aspects as required in line with the Project stage are to be performed every 6 months. The audits are to be performed by an interdisciplinary team of appropriately qualified health and safety, environmental and social auditors. Project Owner's ESHS staff may join the EPC audit team and participate in the EPC Contractor's internal audits.

# 4.2.3 EPC CONTRACTOR ACTION TRACKING, NON-CONFORMANCE AND INCIDENT RESPONSE AND NOTIFICATION SYSTEM

In response to any issues, observations, non-conformances and incidents, the EPC Contractor is to propose appropriate corrective actions and record these (including responsibilities and timescale for completion) in its own ESHS (including environmental, occupational health and safety, labour and working conditions, socio-economic, community safety and cultural heritage aspects) Action Tracking System (ATS). The ATS shall be implemented to ensure recording and follow-up of Non-conformances and incidents and their associated corrective actions.

Project Owner's ESHS management staff will regularly review EPC Contractor's ATS, typically on weekly basis, and will follow-up on progress to confirm closure of measures.

A two-tier non-conformances management process has been defined for the St. George Solar PV Project (refer to section 4.4) following a risk-based approach in line with the Project Owner's Non-Conformance Management Procedure. Non-conformances identified as result of inspections, monitoring and audits performed are recorded by EPC Contractor as actions to be addressed in line with their own management systems and reported to Project Owner in the monthly reports as a minimum.

EPC Contractor is required to implement their own ESHS Non-conformances and Incident Reporting and Investigation procedures. All ESHS incidents and near misses will be notified to the Project Owner. Incidents will be notified immediately as they occur, while near misses will be reported on weekly basis.

The Project Owner reserves the right to carry out its own investigations of EPC accidents/incidents/nearmisses/non-conformances or assist the EPC investigation teams.

Project Owner's ESHS Manager will review the Non-conformances and incidents reports of the EPC Contractor. Project Owner's ESHS Manager will regularly meet relevant EPC Contractor representatives to review the Action Tracking System and status of actions progress and closure.

## 4.2.4 EPC CONTRACTOR MONITORING AND REPORTING

The procedures for monitoring implementation and outcomes of the ESHS mitigation measures, ESHS KPIs and environmental and social monitoring are defined by the EPC Contractor in their CMPs and method statements. The monitoring frequencies, parameters, methodology and duration are determined based upon the site activities requiring monitoring and are assessed on a case-by-case basis dependent upon construction activity type and location. The EPC Contractor is responsible for reporting monitoring results to the Project Owner on monthly basis.

## 4.3. PROJECT OWNER'S ESHS OVERSIGHT AND ASSURANCE PROGRAM

## 4.3.1 PROJECT OWNER'S ESHS OVERSIGHT (MONITORING) [DO]

ESHS oversight is aimed at monitoring construction activities to determine whether environmental, occupational health and safety, labour and working conditions, socio-economic, community safety and cultural heritage mitigation measures implemented by EPC Contractors are effective (i.e. whether these avoid, minimise the impacts as intended, or whether work practices require revision).

During construction stage, ESHS oversight monitoring is coordinated by the Project Owners ESHS Manager and performed through ongoing review and follow-up on EPC Contractor's weekly and monthly reports and on non-conformance/incident reporting, as well as through inspections of the construction worksites.

The ESHS oversight inspections are performed regularly, on monthly basis, and are intended to highlight key EPC Contractor conformance aspects, and their outcome is used to determine the required actions. In addition to the regular monthly inspections, unscheduled inspections (spot-checks) of critical/key Project areas are performed as needed. The locations and timing of the unscheduled inspections are determined based on the ongoing Project activities and issues, as informed by the EPC Contractor's weekly/monthly reports and the non-conformance/incident reporting outcomes.

The ESHS oversight is aimed at addressing all Project ESHS aspects and worksites and ensuring that each of them are visited by the Project Owner's ESHS management site weekly as a minimum or more often as needed in response to ongoing issues and ESHS management needs.

Checklists may be used in support of the field inspections which may be organized based on specific ESHS topics addressing key aspects associated with the construction works being inspected.

Inspections observations and findings are discussed with EPC ESHS representatives to determine and agree on any actions required.

Project Owner's ESHS oversight (monitoring) reports are generated as simple records to include:

- indication of the construction works/site inspected;
- indication of the construction activities inspected;
- observation notes providing description of positive aspects, good practice or issues/noncompliances identified;
- photographic evidence of the observations made/issues identified.

Where ESHS oversight (monitoring) inspections identify issues or Non-conformances, the remedial actions required in response are discussed and agreed with the EPC Contractor and recorded into the EPC Contractor's ATS.

## 4.3.2 PROJECT OWNER'S REGULAR ESHS OVERSIGHT REPORTING [DO]

A brief ESHS oversight report is provided by the ESHS Manager to the Project Management on monthly basis. The report summarizes the key issues and challenges during the reporting period as resulted from the ESHS oversight inspections and the review of the EPC Contractors' ESHS reports and ATS status.

Regular reporting is intended to keep the Project Management informed on ESHS aspects, so that direction and feedback can be provided to EPC Contractors and leadership support obtained for addressing key and more strategic issues at appropriate decision levels as applicable.

## 4.3.3 PROJECT OWNER'S SOLUTIONS ESHS ASSURANCE AUDITS [CHECK]

Environmental, social, health and safety audits of the EPC Contractor are performed on annual basis or upon attaining specific construction works delivery milestones by the EPC Contractor (e.g. 0 - 50%, 50-100% construction works execution).

The ESHS Assurance Audits are conducted primarily by Project Owner's own staff independent of the activities audited, or by contracted third-party specialists to provide assurance of oversight and self-verification activities.

The EPC Contractors are formally notified about the ESHS audits and their scope which include but may not be limited to:

• EPC Contractor ESHS organization/staffing adequacy;

- EPC Contractor ESHS documentation;
- Implementation by EPC Contractor of the ESMP and CMPs, method statements and specific ESHS Procedures;
- ESHS training and inductions;
- ESHS Key Performance Indicators (KPIs);
- ESHS Non-conformance and incident reporting, tracking and closure.

Audit protocols are developed based on the defined scope and used by auditors for guidance and for recording audit observations including good practice and non-conformances.

Audit outcomes are summarized in reports and formally communicated to and discussed with the EPC Contractor. Any required corrective actions are agreed with the EPC Contractor and recorded in their ATS and/or Non-conformance Reporting system as appropriate. Progress in addressing the audit findings is followed up on a regular basis to close the open and pending actions and reported monthly.

## 4.3.4 KEY PERFORMANCE INDICATORS (KPI) [CHECK]

The Project Owner and the EPC Contractor will track and monitor various performance indicators both leading and lagging so as to identify potential trends in environmental, safety and social performance, as defined in the topic-specific management plans. These are defined in section 4.5 (reporting) below.

#### 4.4. INCIDENT AND NON-CONFORMANCES REPORTING, INVESTIGATION AND CORRECTIVE ACTIONS [ACT]

Non-conformances and incidents are recorded, reported, investigated and addressed.

All non-conformances and incidents (including near misses) will be investigated to establish the immediate and underlying/root causes (plans must be established to deal with immediate risks following unforeseen events) and to identify actions to:

- Evaluate and correct the situation as quickly as possible;
- Assess and limit adverse ESHS consequences of the incident;
- Prevent reoccurrence and improve ESHS performance; and
- Ensure planned actions integrate with other ESHS requirements, including contractor interfaces where appropriate;
- Improve future risk management;
- Ensure lessons are learned throughout the Project organization;
- Demonstrate commitment to effective ESHS management.

Non-conformances are unapproved deviations from Project ESHS Specifications or Standards or deviations from Project Owner's or EPC Contractor's Management Plans. These are typically identified through the oversight and assurance process (e.g. daily monitoring, oversight inspections and audits).

Non-conformities may be categorised as minor or major and are recorded and reported in a pre-defined format including description of source/cause, categorization (severity), description and evidence, responsible party and corrective actions.

Non-conformances are recorded in a register maintained by the EPC Contractor and acting as a tool for following up on non-conformances to closure.

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Incidents are classified using a 3-level severity scale (i.e. Minor, Serious, Major). All incidents and accidents taking place on contractor's locations and/or facilities, while under contract with the Project Owner will be reported to the Project Owner's management by e-mail within 12 hours from incident occurrence. In addition, immediate telephone notification will be made for severity 2 and 3 incidents.

All incident investigations are conducted and documented to appropriate level of detail dependent upon the severity of the incident.

Actions identified as being required in the incident investigation report are recorded on Corrective Action Forms to prevent reoccurrence of similar incident. Action plans for the remedial measures implementation as identified in the investigation are defined and include information on responsibilities, resources required, completion dates and reporting requirements.

The status of corrective actions and associated action plans are tracked and once all the actions are completed, this is recorded in a Corrective Action Form signed off for closure. The status of corrective actions implementation and closure is tracked in the Project Incident Register.

Incident reports and key incident statistics are analysed for trends for each Project activity and reported on a monthly basis as part of the performance monitoring program. Relevant findings are communicated throughout the Project organization.

Arrangements for incident reporting and investigation system, as well as the effectiveness of corrective actions are periodically reviewed, as a minimum with annual frequency, as part of the management review process.

#### 4.5. ESHS REPORTING

The following reporting activities are required to be performed:

- Daily reporting (incidents, non-compliances) EPC Contractor
- E&S weekly reports EPC Contractor
- E&S monthly reports EPC contractor
- E&S completion report (at the end of the construction phase) EPC Contractor
- Quarterly ES Monitoring report (ESMR) (submitted to lenders) Project Company (construction)
- E&S monthly report Project Company (construction)
- Annual ESMR Project Company (operation)
- Annual E&S report (for public disclosure) (operation)
- E&S incident and deviation management report
- Topic specific report as outlined in the relevant sub-plans.

The following parameters are required to be reported.



Monitoring	Parameters	Frequency & Duration	Location	Reporting obligations	Responsibility
Meteorology	Wind speed, temperature, rainfall.	Continuous	Site	Daily summary	EPC Contractor
Biodiversity	Monitoring of biological diversity (all target species) both within the PV territory and in the surrounding territories, including in the nearby protected area BG0000169 Lud Post-commissioning monitoring should be carried out in the first year for an entire field season and include all target groups established in the preliminary studies carried out in 2023, and a report on the monitoring should be submitted (as well as interim reports for the periods: January-February, March-June, July- August, September-December) and, if necessary, to propose new measures or make changes to the initially proposed ones. In the event		Site	Construction and 1 <sup>st</sup> year operation	Project Company
OHS and environmental and social statistics (including COVID-19 statistics)	<ul> <li>Numbers of fatalities, accidents and injuries and near misses. Incident reporting and follow-up actions.</li> <li>Daily H&amp;S inspections by qualified personnel.</li> <li>Construction and operations auditing, inspection and reporting schedule.</li> <li>Reviews of incident and accident reporting, drill reporting and any corrective actions identified, where relevant.</li> </ul>		Site	Monthly construction report. (Noted: the EPC contract defines immediate reporting obligations for a fatality or serious E&S incident)	EPC Contractor
Pollution control	<ul> <li>Number of reported spills (zero or downward trend to be maintained)</li> <li>Number of reported incidents of concrete washout in undesignated area (zero)</li> <li>Water quality monitoring in S-L Protected Area</li> </ul>	Monthly	Site	Autofit	EPC Contractor



Monitoring	Parameters	Frequency & Duration	Location	Reporting obligations	Responsibility
Waste	<ul> <li>Weekly and monthly waste generation volumes for construction wastes (segregated by waste stream)</li> <li>Operational waste streams</li> <li>Waste contracts with authorised waste disposal facilities</li> <li>Monthly volume of waste generated (per type)</li> </ul>	Monthly	Site	Monthly construction monitoring report	EPC Contractor
Resource Use	<ul> <li>Volume of construction water tankered to site.</li> <li>Volume of potable water delivered to site.</li> <li>No unauthorised release of contaminated or potentially contaminated water to ABIS canal or ground (zero)</li> </ul>	Monthly	Site	Monthly construction monitoring report.	EPC Contractor
Environment	- Dust episodes, soiling of vegetation, dust resuspension on the roads and dust clouds at work fronts, efficacy of stormwater drainage system, ABIS canal quality (visual)	Daily (visual)	Site	Daily inspection checklist	EPC Contractor
Cultural heritage	<ul> <li>Log and report all chance finds identified.</li> <li>Should items of cultural heritage be found on or near the Project site, these should be regularly monitored to ensure they are properly signposted, their buffer zones are maintained and that no harm has come to the items.</li> </ul>	As relevant	Site	Monthly	EPC Contractor
Labour and worker grievance statistics	Number of workers, gender of workers and if they are local or not and subcontractor statistics.	Weekly	Site	Monthly construction monitoring report	EPC Contractor



Monitoring	Parameters	Frequency & Duration	Location	Reporting obligations	Responsibility
Labour accommodation	<ul> <li>Compliance of accommodation against the labour accommodation plan</li> </ul>	Monthly	Labour accommodation	Monthly construction monitoring report or accommodation audit report	EPC Contractor
Labour and working conditions	<ul> <li>Review of working conditions, paysheets and payslips, leave allocation, and interview with workers to verify findings.</li> </ul>	Monthly	Site	Monthly construction monitoring report or labour audit report	EPC Contractor
Security incidents	- Security incidence. Incident reporting and follow-up actions.	Monthly	Site	Monthly construction monitoring report	EPC Contractor
Worker Grievances	<ul> <li>Number of worker grievances received (grievance log). Responses and follow-up actions (e.g. Conduct noise monitoring in the event of a noise complaint or evidence of exceedance of community noise guidelines values)</li> </ul>	Monthly	Site/local communities	Monthly construction monitoring report	EPC Contractor

## 4.6. EXTERNAL REPORTING [ACT]

The Project Owner will prepare an annual report on environmental; health and safety performance and implementation of the stakeholder engagement plans and grievance procedure. The annual report will be disclosed on the Project website.

In addition, the Project Owner commits to following external reporting:

- Statutory Notifications and Reporting to national regulatory bodies as required in line with the applicable regulations and Project permits,
- Community engagement and grievances; and
- Incident Notification and Reporting.

According to the incident reporting procedure in place, medium and major incidents (fatalities included) are to be reported to authorities within 2 hours from occurrence. Any such incidents will be also reported to St. George Solar PV Project lenders within 12 hours<sup>7</sup>.

All environmental and social incidents will be appropriately documented, notified and reported in accordance with established procedures as indicated in previous sections of this ESMP.

Incident notification and reporting to relevant national regulatory bodies will be performed in line with applicable regulations in force and as stipulated in permits and licenses.

<sup>7</sup> Note: to be confirmed based on CTA

## 5.0 MANAGEMENT OF CHANGE [DO]

The process in place to manage changes impacting ESHS aspects of the Project are integrated in the overall change management process applicable to all Project Changes.

ESHS changes addressed in this ESMP section include:

- new planned activities or processes and or changes in project activities, design or footprint leading to potential impacts that were not subject to assessment as part of the Project ESIA package;
- changes to ESHS management, mitigation and monitoring commitments not considered in the Project ESIA package;
- changes/updates of legal and regulatory requirements, technical codes and business objectives that may trigger potential impacts that were not subject to assessment as part of the Project ESIA.

Triggers for consideration in relation to changes specified above may include:

- Design refinement or detailed design outcomes
- Changes in construction methodologies;
- Field obstacles during construction;
- Results of further field surveys and monitoring;
- Comments/concerns submitted by public/stakeholders/lenders;
- Changes in regulations or requirements by regulatory bodies.

The Management of Change provides for a simple ESHS management of change process, as represented in Figure 8 below.





Figure 7: ESHS Change Management Process

The ESHS change management process is managed by the ESHS Manager and comprises the following main steps.

#### **Change Identification**

ESHS changes are identified various ways, including requests by the EPC, engineering, construction teams and are summarised in a Management of Change Form.

#### **Change Impact Analysis and Notification of Changes**

Upon receiving the Management of Change Form, the HSE Manager with the support of the ESHS Specialist undertakes performs:

- An assessment of proposed change risks
- A screening review of any proposed changes that have the potential to give rise to new or additional significant impacts (positive or negative) which differ to those identified as part of the ESIA Package.

The Screening will be performed by/under the direction of the ESHS Manager with involvement, as warranted, of other Project Owner staff and EPC Contractor Environmental Expert/Design Team, and/or with support from external specialized consultants. To assist with the review, a Change Screening Matrix will be used.

The potential outcomes of the Changes Screening can be grouped in 3 tiers in relation to environmental and social impacts (in line with the corresponding definitions in the ESIA package) as follows:

- Tier 1 Changes Changes where the potential impact of the change prior to mitigation will be no more than minor.
- Tier 2 Changes Changes where the potential impact of the change prior to mitigation will be moderate.
- Tier 3 Changes Change were the potential impact of the change prior to mitigation will be major.

Tier 1 Changes will be implemented by the Project Owner without notifying the St. George Solar PV Project lenders.

For Tier 2 Changes, Project Owner will inform the Project Lenders of the change, but will not have to secure their approval prior to implementing the change.

For Tier 3 Changes, Project Owner will seek approval from the Project Lenders prior to implementing the change.

The following changes will be considered as Tier 3 Changes:

- Changes to the Project design and footprint or activity that may result in a potential new major impact, or elevate an impact already assessed to a potential major impact.
- Changes in commitments to mitigate or avoid potential impacts that may result in a potential new major impact.

## 6.0 ESHS TRAINING [DO]

#### 6.1. OBJECTIVES

The Project Owner is committed to ensure that ESHS training is delivered to all staff as required for delivering their roles. In the frame of the recruitment process, Project staff is verified for competency and experience. Following employment with the Project, the staff receive adequate induction and ongoing ESHS training according to a training plan.

The aim of the induction training is to make Project staff aware of the actual or potential actual or potential ESHS risks associated with their work activities, their behaviour, and of the potential consequences of departure from the Project ESHS procedures.

In addition to the induction, the new Project staff will further undertake specific ESHS training commensurate with their roles. Employed training process shall take into account different levels of responsibility, ability, language skills, and risks associated with each position.

A system for evaluating the effectiveness of the training or action taken will be implemented. Training records will be documented and held on file.

EPC Contractor and service providers are contractually bound to implement specified ESHS training requirements.

## 6.2. EPC OBLIGATIONS

The EPC Contractor's ESHS training and competency requirements are contractually specified.

EPC Contractor shall ensure that all construction employees (own and subcontractor staff) are adequately qualified and have the ESHS knowledge and skills required for the execution of their work duties.

Prior to the commencement of the work, EPC Contractor shall submit a Training Plan identifying specific training requirements against each job title for review and acceptance by the Project Owner.

The Training Plan is to be based on an analysis of training requirements and should comprise:

- an induction training program to be delivered to all personnel (own and subcontractor staff), vendor representatives and site visitors;
- general and job/task-specific training as needed for the performance of the duties to which the person (own and subcontractor staff) is assigned to.

The Training Plan will include a Competency/ Training Matrix. The Competency/ Training Matrix is to be developed as a tool documenting and comparing the required competencies for a position with the existing skill level of the employees performing the roles and shall be used to determine the training needs. The Competency/ Training Matrix is also to be used as a tool for managing people development.

The Training Plan and the Competency/ Training Matrix are to provide the mechanism to ensure that training is timely delivered, and the training program is effective. For this purpose, the EPC Contractor is to perform regular evaluations throughout the construction works period to ensure that the Training Plan has achieved its objectives i.e. that all staff (own and subcontractor employees) are suitably qualified, competent and fit for their job duties. The frequency and timing of such evaluations is to be determined by the EPC Contractor and subject to Project Owner's approval.

Implementation of ESHS training requirements will be reviewed by the Project Owner throughout the contract period according to the provisions of this ESMP.

## 7.0 MANAGEMENT REVIEW [CHECK]

Management Review is a key element of the ESMP Cycle (Figure 1), closing the adaptive management loop as part of the continual improvement process of the implemented management system.

Project Owner's and EPC Contractor's management reviews are undertaken at several levels of the organization and include the following:

- Project Owner performance reviews.
- EPC Contractor's ESHS functional and project cross-functional reviews.
- Project management meetings.
- Weekly and monthly ESHS function meetings.

Project Owner's senior management periodically review the overall effectiveness of the ESHS management system, annually as a minimum. The scope of the ESHS Management Review include:

- Provide management with a summary of yearly ESHS performance, including:
  - Non-conformances and corrective actions
  - Monitoring and measurement results
  - Audit results
  - Stakeholder feedback and concerns (as resulting from the stakeholder engagement process)
  - Adequacy of ESHS resources
  - ESHS performance
  - o ESHS incident trends, response, and reporting.
- Identify opportunities for and drive continual improvement.
- Summarize the significant ESHS risks and envisaged risk management in the following period.

The annual ESHS Management Review will inform the annual ESHS planning and targets as well as any changes including resource needs.



## Attachments



## ATTACHMENT 1: RELEVANT LAWS AND REGULATIONS

Topic Covered	Legislation	Legislation Number and Date	Relevance to Project
Accidents a Emergencies	<i>nd</i> Ordinance on ascertaining, investigation, registration and reporting of the occupational accidents	SG № 61 of 21/01/2001 SG № 19 of 19/02/2002	This ordinance regulates the procedure of ascertaining, investigation, registration and reporting of the occupational accidents.
Archaeology Cultural Heritage	<ul> <li>/ Ordinance № 5/14.05.1998 for designation of immobile cultural and historical items as cultural monuments</li> </ul>	SG № 60 of 27/05/1998 SG № 20 of 06/03/2001	This ordinance covers the procedure for designation of the immobile cultura and historical items as cultural monuments.
	Ordinance to implement the terrain archaeological surveys	SG № 18 of 01/03/2011	This ordinance covers the exploration of archaeological items.
	Guide to implement the terrain archaeological surveys	SG № 12 of 07/02/1997	This ordinance covers the exploration of archaeological items.
Biological Impact	:	2004/35/EC SG № 91/25 of 09/2012 SG № 38 of 18/05/2012	This Act makes provision for: 1. Obtaining and furnishing information concerning the state of the environment; 2. The control of the state of the environment;
			<ol> <li>The control of the state of the environment;</li> <li>The assessment of the impact on the environment;</li> <li>The planning and implementation of environmental protection activities; and</li> <li>The rights and duties of central and local authorities, bodies corporate and physical persons as regards environmental protection.</li> </ol>
	5	SG № 77 of 2002 SG № 32 2002 of 24/04/2012	<ul> <li>The articles of relevance are: Article 2</li> <li>1. Conservation of natural habitat types of representatives of the Republic of Bulgaria and of Europe and habitats of endangered, rare and endemic plant, animal, and fungal species within a National Ecological Network;</li> <li>2. Conservation of the protected plant, animal, and fungal species of the flora, fauna, and mycota of the Republic of Bulgaria, as well as of those subject to use and trade; and</li> <li>6. Conservation of centuries-old and remarkable trees. Article 3 Development a National Ecological Network which shall comprehend:</li> <li>1. Special Areas of conservation part of the European Ecological Network NATURA 2000, which may incorporate protected areas;</li> <li>2. Protected areas outside Special Areas of conservation; (2) In the National Ecological Network priority will be included CORINE sites, Ramsar sites, Important Plant Areas and Important Bird Areas. Art. 37. Species from Appendix 3 are protected in all Bulgaria. Art. 38 prohibitions for capture, killing or any kind of breaching of species included in Appendix 3.</li> </ul>



Art 4 84 Exceptions to the prohibitions for species in Annex № 3. Art 40         Writen permission from the Minister of the Minister of the Minister of Environment and Water Art. 43 is determined by an Regulation approved by the Minister of Environment and Water and Minister of Agriculture and Food.           Ordinance № 8 for terms and conditions. № 4 of 16/01/2004         This ordinance sets the terms of conditions for issuing permits under Art. 43 is determined by an Regulation approved by the Minister of Agriculture and Food.           Biodiversity Act for animal and plant species. Isolated in Appendix № 3. the species isolated in Appendix № 3. the species, bools and methods of capture and killing of Annex № 5         The ordinance regulates the terms and conditions for the development of natural habitats and of wild fauna and flart Species. Species population status, its priority habitats, threats and limiting factors and regime of their elaboration of actor plans for animal and plant species. Species population status, its priority habitats, threats and limiting factors and regime of their protection.           Directive on the conservation of natural papeliances.         SG № 73 of 19/08/2003           Directive on the conservation of natural papeliances.         SG № 73 of 19/08/2001           Directive on the conservation of natural species.         SG № 73 of 11/01/2011           Directive on the conservation of natural species.         SG № 73 of 11/01/2011           Directive on the conservation of natural species.         SG № 73 of 11/01/2011           Directive on the conservation of natural species.         SG № 73 of 11/01/2011           Directive on the conserva			
for issuing permits for exemptions from the prohibitions, introduced by the Biodiversity Act for animal and plant species of Appendix Ne 3, the species of Appendix Ne 3, the species of Appendix Ne 3, the species outside the Appendix Ne 3 and Ne 4 and indiscriminate use of appliances, tools and methods of capture and killing of Annex Ne 5     The ordinance regulates the terms and conditions for the development of action plans for animal and plant species, species population status, its for a Directive on the conservation of matural habitats and of wild fauna and flora - for a Directive on the conservation of natural and plant species     92/43/EEC 79/409/EEC     The ordinance regulates the terms and conditions for the development of action plans for animal and plant species, species population status, its protection.       Directive on the conservation of wild bursh of action plans for animal and plant species     92/43/EEC 50 k 73 of 19/08/2003     This directive covers the conditions and procedures for assessment of the conditions and order for the elaboration of action plans for animal and plant species     92/43/EEC 50 k 73 of 11/01/2011     This directive covers the conditions and procedures for assessment of the compliance of plans, programmes, projects and investment projects that will significantly affect Natura 2000 sites       Forestry Act     SG Ne 19 of 08/05/2011 SG Ne 38 of 18/05/2012     This Act regulates the ownership and the management of Bulgarian forests and forest resources. It applies to all forests, as well as the lands included in the nation (regardless of their property status. Forest within protected areas is also regulated by the Protected Terntories Acts and the Biodiversity Act.       Rules for implementation of the Forestry Act, adopted by Decree Ne 80 of 1998     SCI Ne 41 of 10/04/988 SG Ne 7 of 21/01/2011			Written permission from the Minister of the Ministry of Environment and Water for exceptions. Art. 51 Terms and conditions for issuing permits under Art. 49 is determined by an Regulation approved by the Minister of Environment and Water and Minister of Agriculture and Food.
Directive on the conservation of natural habitats and of wild fauna and for a Directive on the conservation of wild birds - Ordinance № 5 on the conditions and order for the elaboration of action plans for animal and plant species       The ordinance regulates the terms and conditions for the development of action plans for animal and plant species and investment protective on the conservation of natural habitats and of wild fauna and flora - SG № 73 of 19/08/2007       The ordinance regulates the terms and conditions for the development of action plans for animal and plant species         Directive on the conservation of action plans for animal and plant species       92/43/EEC       This directive covers the conditions and procedures for assessment of the compliance for Assessment of flants and of wild fauna and flora - SG № 73 of 11/09/2007         Ordinance for Assessment of plans and projects that will significantly affect Natura 2000 sites       SG № 19 of 08/05/2011 SG       This Act regulates the ownership and the management of Bulgarian forests and forest resources. It applies to all forests, as well as the lands included in the national forest fund, regardless of their property status. Forest within protected areas is also regulated by the Protected Territories Acts and the Biodiversity Act.         Rules for implementation of the 80 of 1998       SG № 41 of 10/04/998 SG № 7 of 21/01/2011       Relevant articles are:         Directive on the conservation of matural habitats and of wild fauna and flora and birds and of wild fauna and flo		for issuing permits for exemptions from the prohibitions introduced by the Biodiversity Act for animal and plant species listed in Appendix № 3, the species of Appendix № 4 for all bird species outside the Appendix № 3 and № 4 and indiscriminate use of appliances, tools and methods of	
Directive on the conservation of natural habitats and of wild fauna and flora - Ordinance for Assessment of plans and flora - Ordinance for Assessment of plans and flora - SG № 73 of 11/09/2007       This directive covers the conditions and procedures for assessment of the compliance of plans, programmes, projects and investment proposals with the subject and aims of protected zones preservation.         Net as 000 sites       SG № 19 of 08/05/2011 SG       This Act regulates the ownership and the management of forests in Bulgaria with the aim to ensure the sustainable management of Bulgarian forests and forest fund, regardless of their property status. Forest within protected areas is also regulated by the Protected Territories Act and the Biodiversity Act.         Rules for implementation of the S0 of 18/05/2011       SG № 41 of 10/04/998 SG       Relevant articles are: Art 1. The rules set conditions and order for management, reproduction, use and protection of forests and forest lands, and relationships associated with ownership of them.         Directive on the conservation of natural habitats and of wild fauna and flora and Directive on the conservation of wild fund and biors. Protected Areas Act       92/43/EEC       The purpose of this Act is to conserve and preserve protected areas as a national and human wealth asset and as a special form of conservation of Bulgarian nature, conducive to the advancement of culture and science and to public wefare.         Ordinance on developing protected SG № 13 of 15/02/2000       Under Article 3:		Directive on the conservation of 92/43/EEC natural habitats and of wild fauna and flora Directive on the conservation of wild birds - Ordinance № 5 on the conditions and order for the elaboration of action plans for animal	action plans for animal and plant species, species population status, its priority habitats, threats and limiting factors and regime of their
Forestry Act       SG № 19 of 08/05/2011 SG № 38 of 18/05/2012       This Act regulates the ownership and the management of forests in Bulgaria with the aim to ensure the sustainable management of Bulgarian forests and forest resources. It applies to all forests, as well as the lands included in the national forest fund, regardless of their property status. Forest within protected areas is also regulated by the Protected Territories Acts and the Biodiversity Act.         Rules for implementation of the Forestry Act, adopted by Decree №       SG № 41 of 10/04/998 SG № 7 of 21/01/2011       Relevant articles are: Art. 1. The rules set conditions and order for management, reproduction, use and protection of forests and forest lands, and relationships associated with ownership of them.         Directive on the conservation of natural habitats and of wild fauna and flora and Directive on the conservation of wild birds - Protected Areas Act       92/43/EEC 79/409/EEC SG № 133 of 11/11/1998 SG № 133 of 11/11/1998       The purpose of this Act is to conserve and preserve protected areas as a national and human wealth asset and as a special form of conservation of Bulgarian nature, conducive to the advancement of culture and science and to public welfare.         Ordinance on developing protected SG № 13 of 15/02/2000       Under Article 3:		Directive on the conservation of natural habitats and of wild fauna and flora - Ordinance for Assessment of plans and projects that will significantly affect	the compliance of plans, programmes, projects and investment
Forestry Act, adopted by Decree №       № 7 of 21/01/2011       Art. 1. The rules set conditions and order for management, reproduction, use and protection of forests and forest lands, and relationships associated with ownership of them.         Directive on the conservation of natural habitats and of wild fauna and flora and Directive on the conservation of wild for and Directive on the conservation of wild SG № 13 of 11/11/1998       The purpose of this Act is to conserve and preserve protected areas as a national and human wealth asset and as a special form of conservation of Bulgarian nature, conducive to the advancement of culture and science and to public welfare.         Ordinance on developing protected SG № 13 of 15/02/2000       Under Article 3:		Forestry Act SG № 19 of 08/05/2011 SG	Bulgaria with the aim to ensure the sustainable management of Bulgarian forests and forest resources. It applies to all forests, as well as the lands included in the national forest fund, regardless of their property status. Forest within protected areas is also regulated by the Protected Territories
habitats and of wild fauna and flora and       79/409/EEC       national and human wealth asset and as a special form of conservation of         Directive on the conservation of wild       SG № 133 of 11/11/1998       Bulgarian nature, conducive to the advancement of culture and science         birds - Protected Areas Act       SG № 19 of 08/03/2011       and to public welfare.         Ordinance on developing protected       SG № 13 of 15/02/2000       Under Article 3:		Forestry Act, adopted by Decree № № 7 of 21/01/2011	Art. 1. The rules set conditions and order for management, reproduction, use and protection of forests and forest lands, and relationships
		habitats and of wild fauna and flora and79/409/EECDirective on the conservation of wildSG № 133 of 11/11/1998birds - Protected Areas ActSG № 19 of 08/03/2011	The purpose of this Act is to conserve and preserve protected areas as a national and human wealth asset and as a special form of conservation of Bulgarian nature, conducive to the advancement of culture and science and to public welfare.
	<u>.</u>	Ordinance on developing protected SG № 13 of 15/02/2000	



	areas management plans		(1) A management plan shall regulate the activities in the respective protected area within the boundaries delimited by the designation order of the said area; and
EIA	Environment Protection Act	85/337/EEC, amended by	<ul> <li>(2) Biotic and abiotic features and anthropogenic factors within areas adjoining the protected area may be subject to investigation where:</li> <li>1. The protected area is part of a habitat of European importance, or a habitat included in lists under international conventions in the sphere of biodiversity;</li> <li>2. A need is ascertained to clarify the impact of the said features and factors on the protected area; and</li> <li>3. This is expressly indicated in terms of reference endorsed according to the procedure established by this Regulation.</li> <li>(3) The information, conclusions and assessments in the cases covered under Paragraph (2) shall be indicated in the plan under separate items.</li> </ul>
EIA		97/11/EC, amended and supplemented by Directive 2003/35/EC SG № 91/25 of 09/2002 SG № 38 of 18/05/2012	
	Ordinance on the conditions and order	85/337/EEC, amended by	This legislation relates to:
	of conducting EIA including	97/11/EC, amended and	1. Assessment of the need for making an EIA;
	environmental impact assessment in transboundary aspect	supplemented by Directive 2003/35/EC	<ol><li>Terms and procedure for consultations. Determination of the scope, the contents and the form of the EIA report;</li></ol>
	transboundary aspect	SG № 87 of 23/03/1995 SG № 3 of 11/01/2011	3. Organisation of public discussion on the EIA report.
Health Impacts	Health Act	SG № 7004 SG № 40 of 29/05/2012	This act regulates public relations connected with the health of citizens (including the affected by the project).
	Healthy and Safety at Work Act	SG № 124 of 23/12/1997 SG № 7 of 24/01/2012	The articles of interest are: Art. 25 paragraph 1 the employers shall provide services to employees of registered occupational medicine. Art. 25 paragraph 1 the employers shall provide services to employees of registered occupational medicine.
			<ul> <li>Art. 25a paragraph 1 the main activities of the occupational health services are:</li> <li>1. Assistance to employers to create an organization for health and safety at work;</li> <li>2. Assessment of professional risks and analysis of health conditions of</li> </ul>
			<ol> <li>Assessment of professional risks and analysis of nearth conditions of the workers;</li> <li>Proposing measures to eliminate and reduce the risk;</li> <li>Health monitoring of workers; and</li> </ol>
			5. Training of employees and officials on the rules for health and safety



		at work.
	Ordinance № 2/22.03.2004 on the № 2 (SG № 37 of 22/03/2004) minimum requirement for health and safety in carrying out construction works	This ordinance covers the health requirements for carrying out constructio work, ensuring healthy and safe working conditions and environmenta protection.
	Ordinance № 5 on the order, manner and № 5 (SG № 47 of 1999) frequency of risk assessment	This ordinance shall regulate the procedure, manner and frequency of risk assessment for health and safety of employees.
	Ordinance № 36 for the conditions for the exercise of public health control Nº 36 (SG № 63 of 07/08/2009 and SG № 38 of 17/05/2011)	<ul> <li>This ordinance covers the conditions and procedures for the exercise of public health control subjects of public importance; products and goods of importance to human health; the activities of importance to human health; the factors of environment.</li> <li>Article 19 Para 1 The regional health inspections assess compliance with health requirements of investment projects and project at the request of physical or legal persons and elaborated health conclusion. Article. 20 Para. 1 State health inspectors from Regional Health Inspectorate w participate in the state acceptance committee for commissioning or constructions from the first, second and third category.</li> </ul>
	Ordinance № 3 for minimum safety and № 3 (SG № 46 of 2001) health of workers using personal protective equipment at work	This ordinance covers the specifies the minimum safety and health or workers using personal protective equipment at work.
	Ordinance № 3/14.05.1996 on MNE (2006) 56047 instructing the employees on safety, SG № 44 of 01/07/1996 hygiene and fire protection at work	The ordinance regulates the instructing of the employees on safety hygiene and fire protection at work.
	Ordinance № 14/7.08.1998 on the MNE (2006) 56049 occupational health services SG № 95 of 14/08/1998	This ordinance sets rules for the internal organisation, tasks and functions of the state labour medicine services.
	Ordinance № 15/31.05.1999 on the MNE (2006) 56378 arrangements and requirements for SG № 54 of 19/06/1999 development and implementation of physiological modes of work and recreation	The ordinance describes the arrangements for schedule of work and rest during the working day in order to reduce the tiredness and to keep good health.
	Ordinance № 3/28.02.1987 on the SG № 16 of 27/02/1987 obligatory preliminary and periodic SG № 78 of 30/09/2005 medical examinations of the workers	Organisation of the obligatory preliminary and periodic medica examinations of the workers.
Land Impacts	Spatial Planning Act     SG № 1/02       SG № 87 of 02/01/2001       SG № 3 of 18/05/2012	Chapters of importance are: Ch. 2 Purpose of Territories and Landed Property; Ch. 3 Arrangement of Territories and Landed Property; Ch. 4 Technical Infrastructure's Net and Facilities; Ch. 5 Arrangement schemes; Ch. 6 Arrangement plans; Ch. 8 Investment design and permission of construction; Ch. 9 Beginning of the construction works and relationship "Who is Who" in the construction process;



			Ch. 10 Design and Construction Insurance; Ch. 11 Completion of the construction works. Usage Permission; and
			Ch. 13 Temporary roads. Crossing of third-party land ownership and right of way Removing existing constructions.
	Regulation № 16/9.06.2004 on the Energy Sites Servitudes (SG № 88/2004, last amended, SG № 77/2.09.2008);		Articles of interest are: Art. 14 - Minimal margins (dimensions) of easement zones for energy sites for storage, transmission, distribution or transformation of natural gas.
	Soil Act	2004/35/CE SG № 89 of 06/11/2007 SG № 98 of 14/12/2010	Under Article 2; this act discusses: 1. Prevention of soil deterioration and the damages; 2. Conservation of the soil;
	Agricultural Land Conservation Act	2004/35/CE SG № 35 of 24/04/1996 SG № 39 of 20/05/2011	Under Chapter 2 and 4, this act discusses: 1. Protection of the agricultural lands against damages; and 2. Reinstatement of lands.
	Ordinance № 3 on the limit values of hazardous substances in the soil	f № 3 (SG № 71 of 12/08/2008)	<ul> <li>The norms for the permissible limits of harmful substances in the soils are determined on the basis of the risk assessment for the environment and the human health at three levels:</li> <li>1. Low assessment concentrations;</li> <li>2. Maximal permissible concentrations; and</li> <li>3. Interventional concentrations.</li> </ul>
	environmental liability with regard to the	a 2004/35/CE 9 SG № 89 of 22/10/1996 f SG № 30 of 22/03/2002	<ul> <li>This ordinance covers:</li> <li>1. Reinstatement of damaged terrains;</li> <li>2. Stripping, storage and utilization of the humus layer; and</li> <li>3. Terrains for reinstatement, humus utilization and sites for humus depose.</li> </ul>
Labour and Working Environment	Ordinance on working time, rest and leave	SG № 19 of 06/03/2012	Description of requirements relating working time, rest and leave.
	Ordinance № 7 on the minimal requirements for health and safety of the working sites and in usage of working equipment		Under section 3, 7 and 9, articles of importance are: 1. Workshops, other production building and working sites; 2. Working environment, Dust, toxic and other substances; and 3. Providing of PPE and clothing gear.
	Labour Code	SG № 26 of 01/04/1986 SG № 49 of 29/06/2012	<ol> <li>Chapter 13: Health and Safety at Work regulates:</li> <li>Obligations of the employer in order to ensure health and safety at work so that any risk for the workers could be eliminated;</li> <li>Obligation of the employer to provide sanitary, welfare and medical services;</li> <li>Special work clothes and PPE;</li> <li>Limited Duration of work in harmful or hazardous environment;</li> <li>Periodical medical examinations; and</li> <li>Prevention and reporting of injuries and diseases.</li> </ol>



Ordinance on the essential requirements and conformity assessment of electrical equipment designed for use within certain voltage limits	MNE (2007) 55758 SG № 37 of 08/05/2007	The ordinance sets essential requirements and describe the conformity assessment of electrical equipment designed for use within certain voltage limits.
Ordinance № 11/2.03.1987 Ordinance on the rooms for personal hygiene of women and rest of pregnant women's	MNE (2006) 55945 SG № 57 of 24/07/1987	The ordinance sets requirements for the construction and equipment of rooms for rest, personal hygiene and toilets for pregnant women and the responsibility of the management.
Ordinance № 7/16.06.1993 on the prohibition of certain dangerous and heavy jobs for pregnant women		The ordinance is related to prohibition of certain dangerous and heavy jobs for pregnant women.
Ordinance № 4/2.08.1995 on the signs and signals of work safety and fire protection		This ordinance describes the signs and signals of work safety and fin protection.
	SG № 91 of 09/08/1998 SG № 102 of 22/12/2009	The ordinance shall regulate the functions and tasks of officials and of the specialised authorities at enterprises.
Ordinance № 16/31.05.1999 on the Physiological Standards and Rules for Manual Handling of Loads		The ordinance sets the physiological norms and rules for manual handling of loads and the responsibilities of employers and employees.
	SG № 8 of 30/01/2004 SG № 2 of 06/01/2012	Requirements on the protection of the Health and Safety of Workers from the Risks Related to Chemical Agents at Work.
Ordinance № 5/20.04.2006 to ensure the health and safety of workers in limited employment relationship or in temporary employment relationship	MNE (2006) 56199 SG № 43 of 26/05/2006	The ordinance requires health and safety of workers in limited employment relationship or in temporary employment relationship.
Ordinance № 3/25.01.2008 on the minimum health and safety requirements regarding the exposure of workers to the risks arising from vibration	MNE (2007) 51246 SG № 40 of 06/07/2005	The ordinance sets minimum health and safety requirements regarding the exposure of workers to the risks arising from vibration.
Ordinance № RD-07/8 of 20.12.2008 on minimum requirements for signs and signals for safety and/or health at work	SG № 3 of 13/01/2009	This ordinance sets the minimum requirements for signs and signals of worsafety and fire protection.
n Clean Air Act	2008/50/EC	The basic indices, characterizing the quality of the air in the surface

Impacts



Atmosphere		SG № 45 of 28/05/1996 SG № 38 of 18/05/2012	<ol> <li>layer of the atmosphere, are the levels of:</li> <li>Suspended particles;</li> <li>Fine dust particles;</li> <li>Carbon dioxide;</li> <li>Lead (aerosol); and</li> </ol>
	Ordinance № 7/3.05.1999 on Ambient Air Quality Assessment And Management	96/62/EC SG № 45 of 14/05/1999	5. Benzene. Part. 3. A combination of measurements and modelling techniques may be used to assess ambient air quality where the levels over a representative period are below a level lower than the limit value, to be determined according to the provisions referred to in Article 4 (5). Part 4. Where the levels are below a level to be determined according to the provisions referred to in Article 4 (5). Part 4. Where the levels are below a level to be determined according to the provisions referred to in Article 4 (5), the sole use of modelling or objective estimation techniques for assessing levels shall be possible. This provision shall not apply to agglomerations in the case of pollutants fo which alert thresholds have been fixed according to the provisions referred to in Article 4 (5).
	Ordinance № 2/19.02.1998 for limited values (concentrations in waste gases) of harmful substances emitted in the ambient air from stationary sources	SG № 51 of 06/05/1998 SG № 19 of 08/03/2011	The ordinance states that the aim is to keep emission values low to prevent or reduce emissions of harmful substances into the air from stationary sources.
	Ordinance № 16/12.08.1999 of the emission of volatile organic compounds from storage, loading or unloading and transport of petrol	- (	This Regulation sets the requirements for limited emissions of volatile organic compounds.
	Directive of the European Parliament and of the Council relating to the assessment and management of environmental noise - Protection from Environmental Noise Act	2002/49/EC SG № 74 of 13/09/2005 SG № 41 of 02/06/2009	<ul> <li>Chapters of importance are: Chapter 2:</li> <li>1. Previous, current and future noise conditions;</li> <li>2. Exceedance of the limit values of the noise indicators;</li> <li>3. Type and location of the items with the regulated noise characteristics; and</li> <li>4. Number of the population in the area subject to noise impact. Chapter 5:</li> <li>1. Control on the sources of environmental noise; and</li> <li>2. Control on the execution of the conditions set in the ESIA permit.</li> </ul>
	Directive of the European Parliament and of the Council relating to the assessment and management of environmental noise - Ordinance № 6 on noise indicators, limit values of the noise indicators, assessment methods for environmental noise	SG № 58 of 18/07/2006	This ordinance covers: 1. Environmental Noise Indicators; 2. Limit values / norms; and 3. Assessment methods.



	indicators, as well as assessment methods related to the negative impact on human's health				
	Directive on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors - Ordinance on the requirements and the evaluation of the compatibility of the machines and equipment for use outdoors as regards the noise emitted in the ambient air	2000/14/EC SG № 11 of 10/02/2004 SG № 37 of 08/05/2007	This ordinance: 1. Determines the machines and equipment for use outdoors; and 2. Specifies the permissible levels of sound power of machines and equipment for use outdoors.		
	Ordinance № 6 on the emission standards for permissible levels of harmful and dangerous substances in wastewater discharged in water bodies	2006/11/EC SG № 97 of 28/11/2000 SG № 24 of 23/03/2004	This ordinance sets out the limit Values for Admissible Contents of Dangerous and Harmful Substances in the Wastewater Discharged in the Water Bodies.		
Waste	The state policy on waste management i	w materials, provide safe disposal	ncept aiming to prevent waste, promote reuse through recycling, regeneration o and storage of waste, increase producers' responsibility, stimulate investment i		
	The policy on waste management is carried out by the Ministry of Environment and Water, assisted by Directorate Waste management and soil protection, in accordance with EU and national legislation – Environment Protection Act, Waste Management Act, regulations, national planning and strategic documents – National Plan for Waste Management 2014-2020, National Strategic Plan for Urban Wastewater Treatment Plants Sludge Management 2014 2020, National Strategic Plan for Construction and Demolition Waste Management 2011-2020 and National Strategic Plan for Gradual Reduction of Biodegradable Waste.				
	In the context of European Commission waste policy and the development of circular economy, the linear economic model of the type "get, produce and dispose" no longer corresponds to the needs of modern society and the limited nature of natural resources. According to the accepted hierarchy of waste priority is given to waste prevention, followed by preparation for reuse, recycling, recovery and finally disposal, being the most undesirable option.				
	In this sense, the state policy on waste management is focused on the integration of new, sustainable from environmental and economic point of view models where everything that can be utilized and recycled from household waste is separated to be transformed into energy, raw material for the industry, fertilizer for the plants and only minimal amounts of waste are disposed at the newly built regional landfills.				
			consistent with the policies at European level and the key aspects of the nation cling of packaging waste by 2030 and 10% maximum landfill disposal by 2030		
	International legislation EU WASTE FRAMEWORK DIRECTIVE The Waste Framework Directive (2008/9	8/EC), and subsequent amendme	nts including Directive 2018/851, provides a comprehensive foundation for the		

The Waste Framework Directive (2008/98/EC), and subsequent amendments including Directive 2018/851, provides a comprehensive foundation for the management of waste across the European Community. The objective of the Directive is to improve waste management with a focus on sustainable material management. This should be undertaken with "a view to protecting, preserving and improving the quality of the environment, protecting human



health, ensuring prudent, efficient and rational utilisation of natural resources, promoting the principles of the circular economy, enhancing the use of renewable energy, increasing energy efficiency, reducing the dependence of the Union on imported resources, providing new economic opportunities and contributing to long-term competitiveness".

The following articles within the Directive are of relevance to the Project within the scope of this chapter:

• Article 3 defines waste as: "any substance or object that the holder discards or intends or is required to discard". It is important to note that the definition of 'discard' set out in the Waste Framework Directive includes any substance or object that is discarded for disposal or that has not been subject to acceptable recovery (including recycling); and

• Article 4 defines the elements of the Waste Hierarchy (Figure below):



The main principles of the Waste Hierarchy are:

• Prevention: using less material in design and manufacture; keeping products for longer; re

use; using less hazardous materials;

The first option is to prevent the production of waste by choosing, from the design phase, the best technologies. It is not always possible to avoid the production of waste. Measures must be taken to minimize the amount of waste generated. This will be done through reuse, recycling and energy recovery as well as through the selective collection of waste in order to recover it.

Reducing the amount of waste is also achieved through the efficient use of resources, monitoring the flow of materials used and results, training employees to comply with the legal provisions in the field, establishing a construction waste recycling program and identifying companies specialized in the transport, disposal and waste recycling.

Preparing for reuse: checking, cleaning, repairing, refurbishing, whole items or spare parts;

• Recycling: turning waste into a new substance or product; includes composting if it meets quality protocols; Measures will be taken to reuse all recyclable waste.



• (Other types of) recovery: anaerobic digestion; incineration with energy recovery; gasification and pyrolysis which produce energy (fuels, heat and power); recovering materials from waste; some backfilling; and The operations will be carried out, the main result of which is the replacement of some materials with recovered waste.

• Disposal: landfill and incineration without energy recovery. Disposal/storage will be the last option chosen when the others have been exhausted.

• Article 14 identifies that responsibility for the costs of waste management shall be borne by the producer of the waste;

• Article 15 outlines responsibility for waste management. This includes responsibilities for the waste transfer process such as the need to ensure professional waste collection and transport results in delivery to appropriate treatment installations;

• Article 17 sets out measures for the control of hazardous waste. Obligations to ensure the production (i.e. generating), collection and transportation of hazardous waste, as well as its storage and treatment, are carried out in conditions providing protection for the environment and health;

• Article 18 outlines that hazardous waste must not be mixed with non-hazardous waste, with the exception that if a Best Available Technique (BAT) is applied at permitted facilities.

#### National legislation

Waste Management Act	2006/12/EC SG № 86 of 30/09/2003 SG № 36 of 26/04/2011	<ul> <li>This directive:</li> <li>1. Specifies the base conditions in waste management and determinate the different type of waste;</li> <li>2. Covers obligations of parties engaged in activities related to waste; and</li> <li>3. Covers control over the waste management.</li> </ul>
Ordinance № 3 on the classification of wastes	2000/532/EC SG № 44 of 25/05/2004	This ordinance covers: 1. Terms for waste classification, including toxic waste; and 2. Registration of each type of waste / obligations of the waste owner.
Ordinance on the packaging and packaging waste	94/62/EC SG № 19 of 09/05/2004 SG № 29 of 08/04/2011	<ul> <li>This ordinance covers:</li> <li>1. Give general information for organizing the separate collection of waste;</li> <li>2. Specifies the right way for disposal of packaging waste and the necessary requirements for performing of collection, transportation, separation and utilization of packaging waste.</li> </ul>
Ordinance on the requirements for production and launch to market of batteries and accumulators, and for treatment and transportation of waste batteries and accumulators	2006/66/EC SG № 58 of 15/07/2005 SG № 29 of 08/04/2011	This ordinance specifies the conditions for storage and handling of used batteries.
Ordinance on the requirements for marketing of electrical and electronic equipment and treatment and transportation of waste electrical and		This ordinance specifies all conditions and requirements in collection, storage, handling and transportation of waste electrical and electronic equipment.



	electronic equipment		
	Ordinance on the treatment and transportation of industrial and other hazardous waste	2008/98/EO SG № 29 of 1999	<ul> <li>This ordinance:</li> <li>1. Determines the general conditions for handling of industrial and hazardous waste;</li> <li>2. Determines the requirements in collection, adoption and temporary storage of industrial and hazardous waste; and</li> <li>3. Specifies the conditions in transportation of industrial and hazardous waste, including transport documentation and requirements to the transport vehicle.</li> </ul>
	Ordinance on the requirements for treatment and transportation of processed lubricants and waste oil products	SG № 90 of 11 /11/2005 SG	<ul> <li>This ordinance:</li> <li>1. Specifies the prohibition on waste oil disposal to surface and ground water and soil;</li> <li>2. Requires contract to be made with licensed waste oil treatment company, holding valid waste management permit under Waste Management Act; and</li> <li>3. Specifies the requirements for handling of waste oils - temporary storage facilities and transportation condition and documentation.</li> </ul>
Water	Water Act	2008/105/EC SG № 67 of 1999 SG № 80 of 14/10/2011	This law covers the ownership and water management on the territory of the Republic of Bulgaria as a national indivisible natural resource and the ownership of the water economic systems and facilities; summary of the permits: the issued permit regulates water management, usage and protection.
	Ordinance № 13 on the characterization of surface water	2008/105/EC SG № 37 of 08/05/2007 SG № 80 of 14/10/2011	This ordinance covers the characterization of surface water.
Soils		2004/35/CE	<ul><li>Under Article 2; this act discusses:</li><li>1. Prevention of soil deterioration and the damages;</li><li>2. Conservation of the soil:</li></ul>
	Ordinance № 3 on the limit values of hazardous substances in the soil	№ 3 (SG № 71 of 12/08/2008)	<ul> <li>The norms for the permissible limits of harmful substances in the soils are determined on the basis of the risk assessment for the environment and the human health at three levels (presented in the impact assessment chapter):</li> <li>1. Low assessment concentrations;</li> <li>2. Maximal permissible concentrations; and</li> <li>3. Interventional concentrations.</li> </ul>
Noise	The Noise Level Guidelines (IFC, WHO) refer to noise originating from facilities as well as stationary noise sources and are commonly applied as design standards for industrial and infrastructure facilities. <u>National Legislation:</u>		



• Ordinance No. 6 of 26.06.2006 on the environmental noise indicators, considering the degree of discomfort during the different parts of the day, the limit values of the environmental noise indicators, the assessment methods of the noise indicator's values and the harmful effects of noise on public health, Issued by the Minister of Health and the Minister of Environment and Water, prom. SG 58 of 18.07.2006

• Ordinance No. 54 of 13.12.2010 on the activities of the national system for environmental noise monitoring and on the requirements for conducting selfmonitoring and provision of information from industrial sources of environmental noise, Issued by the Minister of Health and the Minister of Environment and Water, prom. SG 3 of 11.01.2011, entering into force on 12.02.2011

IFC Noise	e Level Guid	elines <sup>89</sup>
Type of	Daytime	Night-time
Receptor	07:00 -	22:00 -
-	22:00	07:00
	1-hr LAeq	1-hr LAeq
	(dBA)	(dBA)
Residential	55	45
institutional		
or		

<sup>&</sup>lt;sup>8</sup> <u>https://www.ifc.org/content/dam/ifc/doc/2023/ifc-general-ehs-guidelines.pdf</u>

<sup>&</sup>lt;sup>9</sup> Guidelines values are for noise levels measured out of doors. Source: Guidelines for Community Noise, World Health Organization (WHO), 1999. 23.04.24



educational 10			
Industrial or commercial	70	70	

<sup>&</sup>lt;sup>10</sup> For acceptable indoor noise levels for residential, institutional, and educational settings refer to WHO (1999).

#### APPLICABLE INTERNATIONAL LEGISLATION AND PROTOCOLS

#### International Environmental and Social Policies and Standards

- International Financing Corporation (IFC), Performance Standards (PS) (2012);
- IFC Environmental, Health, and Safety Guidelines for Electric Power Transmission and Distribution (2007);
- World Bank Group, General Environmental, Health, and Safety Guidelines (2007);
- IFC/EBRD Guidance Note: Worker's Accommodation: Processes and Standards (2009);
- Voluntary Principles on Security and Human Rights.

#### International conventions and protocols

• The Kyoto Protocol on Climate Change (UNFCC)

Romania became a signatory to the UNFCC in 1998 with a full ascension in 2002. This obligates Romania to assure that the future development in the country meets the conditions of the Convention.

Relevant to the present Project are the requirements associated with the potential generation of greenhouse gas. Further conditions of relevance include:

- Enhancement of energy efficiency in relevant sectors;
- o Protection and enhancement of sinks and reservoirs of greenhouse gases;
- o Promotion of sustainable forest management practices, afforestation and reforestation;
- o Promotion of sustainable forms of agriculture;
- o Implementation of measures to limit and/or reduce emissions of greenhouse gases; and
- Limitation and/or reduction in methane emissions.
- The United Nations Convention on Biodiversity 1992

This Convention seeks to conserve biodiversity and promote its sustainable use. It requires the identification and monitoring of the biodiversity in an area and adopting the necessary conservation measure. Romania become party to this Convention in 1994.

• The Basel Convention 1989

This was developed under the auspices of the United Nations Environmental Programme (UNEP) in response to the growing worldwide awareness of the problem of international traffic in hazardous waste.

The Basel Convention 1998 is the first and foremost global environmental treaty that strictly regulates the trans-boundary movement of hazardous wastes. It obligates parties to ensure environmentally sound management, especially during the disposal process.

The objectives of the Convention are to:

- Ensure that waste is disposed of as near as possible to the place or source of its generation;
- Reduce trans-boundary waste and where it cannot be avoided, to be disposed of in an environmentally sound and efficient manner; and

- Provide assistance to developing countries in the management of hazardous waste and the generation.
- International Union for Conservation of Natural Resources Red List of Threatened Species

The IUCN Red List, in 1994, was founded in order to provide a comprehensive inventory of the global conservation status of biological species, and to set of precise criteria to evaluate the extinction risk of thousands of species and subspecies. These criteria are applicable to all species and all regions of the world.

- Convention on the Conservation of European Wildlife and Natural Habitats, 1979, ratified by Law no. 13/1993 (Bern Convention);
- Convention on Conservation of Migratory Species of Wild Animals, 1979, ratified by Law no. 13/1998 (Bonn Convention);
- United Nations Economic Commission for Europe (UNECE) Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters 1998, ratified by Law no. 86/2000 (Aarhus Convention);
- European Convention on the Protection of the Archaeological Heritage, 1992, ratified by Law no. 150/1997 (La Valetta Convention);
- European Landscape Convention, 2000, ratified by Law no. 451/2002 (Florence Convention);
- The International Labour Organisation's Core Conventions;



**ATTACHMENT 2: COMMITMENTS REGISTER** 

Ref.	Phase	Commitment	Topics	Responsibility	Source Document	Management Plan Reference	Project Worksite
0	1	2	3	4	5	6	8
1	Construction	<ul> <li>Maintain a Project mandatory 250m buffer zone between temporary construction compounds (laydown, waste, parking area, stockpiles) and the L-S Protected Area</li> <li>Construct new road sections following site clearance and stockpile management requirements, including ensuring any stockpiles are covered to minimise dust events.</li> <li>Excavation, handling and transport of erodible materials shall be avoided under high wind conditions where practicable.</li> <li>Eve water (from a sustainable source) or other control measures such as chemical bonding agents or aggregate to control dust.</li> <li>Demarcate delivery roads and access tracks at site and ensure all workers stick to demarcated areas.</li> <li>No plant or equipment to be stored less than 250m from the L-S Protected Area</li> <li>No onsite cement batching - use existing concrete batching plants in the local area for cement production or use pre-cast concrete blocks</li> </ul>	Air emissions Construction dust	EPC contractor	ESIA 2024	Pollution Prevention & Control Plan	Site Construction Laydown Area Temporary Access Roads
2	Construction	Mitigation of impacts in relation to generation of dust and vehicle / machinery emissions will be managed through the development of the CESMP and CTMP for the construction phase which will specify appropriate measures for the management of dust and fugitive emissions: Onstruction Traffic Management Plan (CTMP) to incorporate all relevant mitigation measures for vehicle movement nearby and within the project areas Minimise open excavation areas Minimise tockpiling of soil and earther material through coordination of earthworks and excavation activities (excavation, grading, compacting, etc.); Minarise of loading/moniton that ensure this by wetting the material, covering it, using trucks with buckets/containers suitable for the type of material transported, etc. Devodery construction materials will be handled in such a way as to reduce the level of particles that atmospheric currents can carry to a minimum. The activities of loading/unloading means of transport, which generate dust in periods of strong wind, will be avoided. The activities left for long periods, apply grass seed or other covers; Thuring of any material anywhere on construction sites is banned; Restrict vehicle speeds on construction sites is banned; Restrict vehicle speeds on construction sites and all access roads to minize potential generation of dust; Restrict vehicle speeds on construction sites and vehicles must be a daily practice (sprinkling, vacuming, cloths). Conduct periodic checks, according to the legislation in the field, for the machines and terms of transport involved in the construction orks, so that they are in good technical condition and do not emit exhaust gases beyond the permitted limits. Restrict wehicle speeds on construction activities, respecting the construction of new engines, respectively the emission control systems, considering the global trend of manufacturing engines with how fuel consumption on power unit and restrictive emission control. Restrict wehicle spreads on densitien water level of carbom monoxide and t		EPC contractor	ESIA 2024	Pollution Prevention & Control Plan	All Project Worksites
3	Operation and maintenance	<ul> <li>To reduce the impact on the air environment factor, the following general measures will be taken, considering that the operational project does not pose any risks associated with emissions to air:</li> <li>Beriodic checks will be carried out on machinery and road/site vehicles so that they are in good technical condition and do not emit exhause gases beyond the permitted limits</li> <li>Waste will be stored in specially arranged places for the shortest period of time</li> <li>Exploitation roads will be maintained</li> <li>Maximum travel speeds of vehicles used in maintenance will be imposed</li> <li>Elanning and complying with the maintenance and operation plans of the PV plant, carrying them out in a safe manner.</li> </ul>	Air emssions	Projecy owner/ O&M contractor	ESIA 2024	OESMP	Project site
4	Design/Contract/ Construction	<ul> <li>•All equipment to have a noise level of less than 85dB(A) at 1m from the equipment.</li> <li>•Beduce project traffic routing through community areas wherever possible (consider exclusion of Access option 3)</li> <li>•Baseline noise assessment and access point at representative receptors in Polkovnik Lambrinovo and along R218</li> </ul>	Noise	Project owner	ESIA 2024	Pollution Prevention & Control Plan	All Project Worksites

Construction	• No noisy or high-noise activities are to be undertaken outside regular working hours (7 am to 6 pm) without prior approval of the Project Company.	Noise	EPC contractor	ESIA 2024	Pollution Prevention &	All Project Worksites
	• Eocate all equipment and laydown area at least 250 m from any sensitive receptors (specifically ).				Control Plan	
	• All observations and non-conformances will be managed through a corrective action tracker and reviewed weekly. and L-S Protected Area.					
	•No blasting without prior approval of the Project Company.					
	• Equipment maintenance, and noise/ vibration emissions and monitoring during construction will be managed through the development of a robust Construction Environmental					
	Management Plan (CEMP). The mitigation measures for noise impacts will include, as a minimum, the following:					
	• Adhering to a speed limit of 15-20km/h for trucks on the construction site					
	<ul> <li>Development of the CTMP (see mitigation measures propose for traffic management);</li> </ul>					
	• Taking advantage of the natural topography as a noise buffer during facility design					
	Temporary acoustic screening if required; installing acoustic enclosures for equipment casing radiating noise					
	Select equipment with lower sound power levels					
	Anstall suitable mufflers on engine exhausts and compressor components					
	Brotall vibration isolation for mechanical equipment					
	• Broid simultaneous work activities that generate high levels of noise/ vibration emissions;					
	•Prior notification of local residents in case of important work activities that generate noise and/or vibrations;					
	Bestriction of construction activities to daytime hours and weekdays;					
	•Eimiting the hours of operation for specific pieces of equipment or operations, especially mobile sources operating through community areas					
	•Developing a mechanism to record and respond to complaints					
	•Monthly noise measurements of the noise level at the nearest sensitive receivers will asist in demonstrating compliance of construction activities with required noise levels. The noise level					
	will be measured near the nearest house or other sensiitive receptor in Polkovnik Lambrinovo (minimum of 2 points) and at the access road of the PV plant from road 218 during the					
	material transport activities and compared to the admissible limits.					
	•Monitor the grievance log for noise-related complaints.					
	• Conduct noise monitoring in case of a noise complaint or evidence of exceedance of community noise guidelines values.					
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Construction	Mitigations to address soil compaction and erosion:	Geology and soil	EPC contractor	ESIA 2024	Topsoil Management and	
	•Sites/vegetation clearance, sites preparation, excavations, and improvement of existing roads and construction of additional access roads should not be carried out during periods of				Site Reinstatement Plan	Construction Laydow
	torrential rain or storms and heavy wind, to minimize compaction and erosion;					Temporary Access Ro
	•Grade temporary access roads so their slope is not too large to avoid the build-up of fast-running run-off water during extreme precipitation events.					
	• Rehabilitation interventions in the priority areas (i.e. areas where there is a low likelihood of natural revegetation or where areas are prone to compaction and erosion from surface runoff)					
	should be prioritised;					
	•The top layer of fertile soil should be removed (where possible) during construction works and stored. Topsoil stripping is usually done by removing the upper layer of the soil up to 2m.					
	•The topsoil will be stored and used to rehabilitate affected construction areas. The topsoil stockpiles' height should not exceed 2m.					
	•Should compaction and erosion events be identified, appropriate remedial actions, including restoration of the compacted and/or eroded areas, and where necessary, the relocation of the					
	paths causing the compaction and/or erosion, should be undertaken,					
	•Eand/vegetation clearance should only be undertaken immediately prior to construction activities taken place there,					
	•Dinnecessary land/vegetation clearance should be avoided					
	•Minimise unnecessary soil/vegetation disturbance during construction.					
	•Use only demarcated areas for laydown and access (construction and operation)					
	Minimise trenches or other steep-walled excavations					
	Backfill open excavations as soon as possible after construction activity					
	• The footprints for all construction sites and areas for associated facilities/infrastructure (e.g. borrow and disposal areas, lay-down areas, construction/management sites and temporary					
	offices) should be restricted to minimum feasible extent with measures implemented to avoid footprint creep,					
	• Dnless foreign material, such as aggregate (e.g. crushed stone, ballast, gravel, sand), needs to be inserted, after the installation of features requiring the excavation of a deep holes, soil					1
	• Dnless foreign material, such as aggregate (e.g. crushed stone, ballast, gravel, sand), needs to be inserted, after the installation of features requiring the excavation of a deep holes, soil should be replaced in the holes so as to mimic the pre-construction profile.					
	should be replaced in the holes so as to mimic the pre-construction profile.					
	should be replaced in the holes so as to mimic the pre-construction profile. • Adopt tension stringing technique to avoid impact on soils between the towers and stringing points.					
	should be replaced in the holes so as to mimic the pre-construction profile. •圅dopt tension stringing technique to avoid impact on soils between the towers and stringing points. •聲onfine traffic movement to existing roads/tarmac areas within the PV Site.					
	should be replaced in the holes so as to mimic the pre-construction profile. •圅dopt tension stringing technique to avoid impact on soils between the towers and stringing points. •聲onfine traffic movement to existing roads/tarmac areas within the PV Site.					

Construction	Mitigations to addresss soil contamination:	Geology and soil	EPC contractor	ESIA 2024	Pollution Prevention &	Site
	• Contract a licensed contractor to collect, transport and treat domestic, construction and hazardous wastes from Project sites,				Control Plan;	Construction Laydown Are
	• Prohibit dumping any types of solid waste to the soil, or burning waste of sites,				Waste Management Plan	Temporary Access Roads
	• Ensure that hazardous materials are stored in designated areas that are designed with impermeable floor, inflammable walls and accessible to authorized personnel,					
	• Pazardous waste shall be properly managed in accordance with existing legislation on hazardous waste					
	•Maintenance works are restricted to specially designated platforms with strict control of accidental spills,					
	• Procedures for responding to emergencies / accidental spills of hazardous materials, fuel and handling, and waste management are developed and implemented,					
	• 🗈 case of accidental/unintended spillage, the contaminated soil should be immediately collected and stored as hazardous waste.					
	• Øil interceptors and silt traps shall be implemented to manage and retain sediments on site for surface water runoff.					
	•Spill containment and clean-up kits will be available on-site, and clean-up from any spill shall be appropriately contained and disposed of at a bound landfill site.					
	• Preparation of guidelines and procedures for immediate clean-up actions following any oil, fuel or chemical spillages.					
	•Develop a site-specific Emergency Response Plan for soil clean-up and decontamination.					
	•Implement a training program to familiarize staff with emergency procedures and practices related to contamination events.					
	•Develop and implement a waste management plan (as part of the cESMS) to ensure that waste is disposed of correctly such that soil contamination is minimized.					
	•Bund of areas where hazardous substances are stored (e.g., fuel, waste areas).					
	• Euel, oil, and used oil storage areas shall be contained in bunds of 110 per cent capacity of the stored material;					
	Befuelling shall be carried out in designated areas using strict protocols					
	• Construction vehicles/pieces of machinery and equipment shall be serviced regularly at off-site locations;					
	•Ensure that all construction plant and equipment are maintained in a good state of repair with minimal leaks;					
	•Ensure storage areas have impermeable floors and containment of capacity to accommodate 110% of the volume of the largest waste container;					
	• Behabilitation and re-vegetation of cleared areas adjacent to the project development area. In addition, after completion of construction, all the temporary roads and embankments will be					
	reinstated, lands will be re-cultivated, and the micro relief will be reproduced.					
	• Adequate sanitary facilities should be provided for the construction workforce. One mini toilet is recommended for every seven workers and not less than 1:15 workers.					
	•Excensed companies shall be contracted to manage and dispose of wastes, wastewater and sludge from the septic tank.					
Pre-construction	•Ensure all compensation is paid prior to commencement of construction activities	Land Use	Project owner	ESIA 2024	Compensation records	Poject
						,
Construction	• Activities within the perimeter will be carried out on strictly necessary areas provided by the project, without occupation of additional land.	Land Use	EPC contractor	ESIA 2024	Pollution Prevention &	All Project Worksites
	• Construction equipment and means of transport will only transit the areas provided by the project, on well-established routes, without affecting additional land surfaces.				Control Plan	
	•Materials, raw materials and/or waste warehouses will not be set up in the vicinity of the locations, on other surfaces than those provided by the project (existing project boundary).					
	• The technological processes that produce a lot of dust, such as the case of earth fillings, will be reduced in periods of strong wind or a more intensive wetting of the surfaces will be carried					
	out, to avoid affecting the use of the neighbouring lands.					
	• Waste will be temporarily stored strictly in the areas provided by the project, until it is handed over to specialised companies in order to take over the waste from the site - this will ensure					
	waste generated by way the project will not adversley impact areas outside the site.					
	• After completion of construction works, the contractor will sanitise and restore all the surfaces used for any purpose during the works, in a way that meets the environmental protection					
	measures. Thus, areas temporarily removed from agricultural use will be returned to agricultural use after completion of construction.			1		
	• Dpon the completion of construction activities, fully reinstate leased land and ensure it is handed over in its original conditions, to the extent possible					
						<u> </u>

Construction/	Mitigation measures to address impact on water quality (groundwater and surface water resources):	Groundwater and surface	EPC contractor	ESIA 2024	Pollution Prevention &	All Project Worksites	
operations	•Prohibit groundwater for potable or construction-related purposes.	water		LJIA 2024	Control Plan	All Floject Worksites	
operations	•Ensure the drainage system includes a containment system for collecting intermittent contaminated wastewater streams, from abnormal operating scenarios or during wet cleaning of panels						
	(maximum of 4 times per year).						
	Bortable latrines or septic tanks are to be installed at least 250 m away from the site boundary (in particular, in the northwest of the site near the L-S Protected Area).						
	•All concrete will be delivered to the site pre-mixed or pre-cast from third parties with approved water use licences						
	•Dindertake groundwork to ensure appropriate site drainage (avoiding contamination runoff risk).						
	•Øndertake due diligence of the WWTP in Silistra for alignment with GIIP						
●∎ ar	●No storage or laydown areas within 250m of the L-S Protected Area boundary or off-site residential receptors						
	•Install sediment traps and culverts as part of the drainage infrastructure around the Project sites prior to clearance and earthorks, so as to prevent any sediment run-off into the surrounding						
	area.						
	• Provide culverts along new access roads to facilitate drainage along with ditches. Where practical, exposed surfaces and friable materials should be covered.						
	• Provide sufficient toilets at active work areas for staff and workers and these should be serviced regularly by a competent and suitably qualified person.						
	• Contractors and applicable Project staff should be trained regarding proper methods for transporting, transferring and hazardous substances that have the potential to impact water						
	resources.						
	• Areas where spillage of contaminants occurs should be excavated (to the depth of contamination) and suitably rehabilitated. If any other minor spillage occurs, it should be cleaned						
	immediately, and the contaminated area should be rehabilitated.						
	• The washing of Project vehicles in any surface water bodies in and around Project site(s) will be strictly prohibited. All Project vehicles should be washed at designated washbays on site/s.						
	These wash bays will include oil/grease and sediment traps for grey water.						
	Undertake concrete washout in designated and signed areas to prevent leaks or spread of wastewater.						
	•Construct the concrete washout area and maintained it in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations.						
	•The concrete washout area will have an impermeable surface with dedicated drainage systems.						
	•Dndertake the removal of any sludge residues as solid hazardous waste only by a licensed waste/wastewater contractor and handle as a hazardous waste.						
	• Prevent any ad-hoc maintenance of vehicles/equipment in and around the Project site(s). All vehicles/equipment should be maintained at a designated workshop. The workshop will include						
	an oil/grease trap.						
	• Maintain all active work areas in a good and tidy condition; debris and waste should be contained in such a way that they cannot become entrained into surface run during periods of heavy						
	rain.						
	• Management of sewage shall be by a licenced contractor.						
	• Provide hazardous waste storage areas with secondary containment. Moreover, hazardous waste should be stored in sealed/covered containers to prevent rainwater intrusion.						
	• Provide all dangerous and hazardous material stores and handling areas with secondary containment capable of holding 110% of the total capacity of all tanks/vessels.						
	•Confine the loading and unloading of dangerous and hazardous material to areas that are provided with secondary containment and in line with hazardous material handling procedures.						
Construction	•Develop and implement a grievance procedure in the event of any water reduction and subsequent water availability complaints being received.	Groundwater and surface	Project owner	ESIA 2024	Stakeholder Engagement	All Project Worksites	
		water			Plan		
Construction	EPC contractor will develop a Wastewater Management Plan in compliance with Bulgarian legislation, IFI Requirements and GIIP (Good international industry practice) that will also include	water Wastewater	EPC contractor	ESIA 2024	Plan Waste Management Plan	All Project Worksites	
Construction	EPC contractor will develop a Wastewater Management Plan in compliance with Bulgarian legislation, IFI Requirements and GIIP (Good international industry practice) that will also include measures to ensure:		EPC contractor	ESIA 2024		All Project Worksites	
Construction			EPC contractor	ESIA 2024		All Project Worksites	
Construction	measures to ensure:		EPC contractor	ESIA 2024		All Project Worksites	
Construction	measures to ensure: • The construction contractor must ensure that the temporary offices have adequate wastewater handling and disposal facilities. Their disposal must be made in close collaboration with the		EPC contractor	ESIA 2024		All Project Worksites	
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Construction	<ul> <li>measures to ensure:</li> <li>The construction contractor must ensure that the temporary offices have adequate wastewater handling and disposal facilities. Their disposal must be made in close collaboration with the local government authorities (i.e., municipalities) and licensed companies.</li> <li>Excavation must not occur in extreme weather conditions (rain, strong wind).</li> <li>Prohibited to discharge of the resulting water during the construction period, on the ground, on the site or in the vicinity.</li> <li>The removal of the oil products accidentally leaked from the machines in operation will be carried out using absorbent materials that will then be stored in specially arranged spaces and handed over to the authorized units for collection and/or disposal.</li> </ul>		EPC contractor	ESIA 2024		All Project Worksites	
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	Construction	<ul> <li>Develop a construction site Waste Management Plan (as part of the cESMS)</li> <li>Require EPC contractor to conduct a duty of care audit for proposed general waste, construction waste, hazardous waste and recycling facilities in the municipality and region to confirm compliance with GIIP for acceptance by the Project Company.</li> <li>EPC contractor to ensure all subcontractors use approved waste disposal routes only following the outcomes of the waste due diligence audits.</li> <li>Site all temporary onsite waste storage areas at least 200 from the L-S Protected area</li> </ul>	Solid waste	EPC contractor	ESIA 2025	Waste Management Plan	All Project Worksites
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14	Construction/ operation	The EPC contractor and Q&M contractor will develop a Waste Management Plan appropriate to the project stage in compliance with Bulgarian legislation, IFI Requirements and GIIP that will also include measures to ensure: •Diffices have adequate waste handling and disposal facilities. Arrangements for collecting non-hazardous, paper/cardboard, plastic, and metallic waste. Their disposal and recycling must be made in close collaboration with the local government authorities (i.e., municipalities) and licensed waste recycling companies. Provision of chemical/ mini toilets for workers at the base camp must be in the ratio of 1.7 and maximum of 1.15 (four to worker), respectively, to maintain hygienic and clean surroundings. •Ebod/organic waste and recyclables, such as paper, plastic, scrap metal waste, etc. must be appropriately segregated and stored in designated waste bins/containers and periodically deposited in approved disposal areas or sold to licensed recycling companies. •Ebod/organic waste and recyclables, such as paper, plastic, scrap metal waste, etc. must be appropriately segregated and sent back to the manufacturer or reused in other forms and locations; •Esure electrical waste (consumbles, spare parts and obsolete equipment) and broken solar panels are adequately packed and sent back to the manufacturer or reused in other forms and locations; •Segregation, reuse and, where feasible, recycling of wastes by registered operator; construction contractor must follow the 3R policy to manage the solid wastse •Nates torage/collection areas shall be fenced, laid at the botom with an impermeable cover and equipped with follow the 3R policy to manage the solid wastse. •Nates torage/collection areas shall be fenced, laid at the potentime within solid impermeable bunding with 110% capacity of storage containers, to avoid contanination of solis, surface and groundwater in the event of spillage/leakage. •Novidance of refuelling on site to prevent windblown litter across and outside site. •Eoorgening of solid waste con	Solid waste	EPC contractor	ESIA 2026	Waste Management Plan	All Project Worksites
15	Construction	<ul> <li>In-situ testing of soil to ensure it is not contaminated and can be reused or disposed into land.</li> <li>Iraining – contractor staff to be able to identify signs of potential contamination (smell of HC, staining).</li> </ul>	Solid waste	EPC contractor	ESIA 2024	Construction Waste Management Plan	All Project Worksites
17	Construction	<ul> <li>Implement relevant construction standards (e.g. 'Construction Code of Practice for the Sustainable Use of Soils on Construction Sites' – DEFRA, 2009).</li> <li>Demarcate the construction zone or servitude for the TL corridor on a map and on the ground clearly using high visibility tape for instance, to avoid impacting on sensitive areas outside of the permitted construction area</li> <li>Avoid locating construction camps and material/equipment laydown areas within or near identified natural or semi-natural habitat</li> <li>Itilise existing roads wherever possible</li> </ul>	Designated and protected areas	EPC contractor	ESIA 2024	Biodiversity Management Plan	All Project Worksites
8	Pre-construction	<ul> <li>Prior to financing, conduct Critical Habitat Assessment for potential critical habitat triggers (e.g. based on CH criteria i, v, vi per EBRD PR6) for the potential trigger species highlighted in the ESIA</li> <li>Design where possible lighting that is activated to work only during movement and the emitted light should be outside the ultraviolet spectrum if possible - for some types of insects, amphibians and reptiles, this can reduce their barrier effect or disorientation in space. For nocturnal birds of prey, it will reduce the element of anxiety</li> <li>Before the start of construction and during all stages of the construction, a team of environmental biodiversity experts must be present to the territories and, if necessary, remove amphibians or reptiles from the areas intended for construction, in accordance with the construction scheme. Thus, the probability of mortality of individuals will be significantly reduced.</li> </ul>	Habitats Habitat loss / degradation / fragmentation	Project owner/EPC contractor	ESIA 2025	CHA report	Site

	Construction	•Worker/contractor training/awareness, supervision regarding impacts to animals and protection of species	Habitats	EPC contractor	ESIA 2025	<b>Biodiversity Management</b>	All Project Worksites
		• Prohibit poaching and interactions with fauna and flora in the worker code of conduct	Habitat loss /degradation /			Plan	
		• Evoid locating construction camps and material/equipment laydown areas within or near identified natural or semi-natural habitat	fragmentation				
		•Develop a suitable post-construction habitat restoration plan for temporary areas used during construction					
		•Use existing access roads or upgrade existing roads wherever possible before considered new access road construction	-General provisions				
		• Place appropriate limits on the number of vehicle movements to and from the Project site					
		<ul> <li>Bestrict vehicles to the use of authorized access roads only</li> <li>Prohibit the use of herbicides to limit the spread of grass, tree and shrub vegetation in PP areas - this will limit possible negative effects on insects, amphibians and entrants, such as</li> </ul>					
		mortality or possible disease					
		•Where possible, storage of materials should only be in areas around the airport runway - this will lead to limiting effects of temporary soil damage and reducing the area for reproduction,					
		development and foraging in most animal groups and will reduce unnecessary trampling of territory and changes in mechanical composition which is important to invertebrates					
		•During construction, minimise impacts such as trampling, passage of heavy equipment and storage of materialss as this limit disturbances, reduces affected areas and limits potential deaths	;				
		of individuals (plants, invertibrates, small mamals, amphibiansetc), i.e. the impact on species will be limited to the areas of construction and will not cause adverse impacts over larger areas.					
		•All activities should be carried out only during the daylight hours to reduce the anxiety of nocturnal animals.					
		• In the event that a fence is installed - provide access areas/passages through which rabbits, foxes, jackals, land turtles and other small species can pass. The size of the opening must be not					
		less than 40/40 cm for every 100 linear meters of length of the fence along its entire perimeter.					
		• Reduce the speed limit of equipment and personnel vehicles to 20 km/h within the Lambrinovo airport's runway and road areas will significantly decrease the risk of amphibians, small					
		<ul> <li>mammals, and invertebrates being run over.</li> <li>Establishment, posting, and enforcement of vehicular speed limits, and other traffic management measures.</li> </ul>					
		•Examinent, posing, and enforcement of venicular speed innes, and other traine management measures.					
		• Prepare decommissioning management plan (including management of biodiversity impacts) prior to decommissioning.					
0							
2	Construction	• Apply a rotation scheme on small areas moving from east to west to remove vegetation around the PV facilities - panels, inverters and others in accordance with the instructions of an	Habitats	EPC contractor	ESIA 2026	Biodiversity Management	All Project Worksites
		ecologist/biologist, as a result of monitoring (before starting removal activities of vegetation). This will enable species from the groups of amphibians, reptiles, mammals and partially from	Habitat loss / degradation /			Plan	
h		invertebrates to move to neighbouring territories and limit disturbance and possible mortality.	fragmentation				
•	Construction	Check for introduction of species included in the list of invasive and potentially invasive alien species (of higher plants for Bulgaria, indicator SEBI10 - Invasive alien species for Europe	Habitats	Project owner/EPC	ESIA 2024	Invasive Species	All Project Worksites
	construction	(source EAES http://eea.government.bg/bg/soer /2010/biodiversitv-nem/biologichno-raznoobrazie-natsionalna-ekologichna-mrezha-1)	Introduction/spread of	contractor	2017 2024	Management Plan	
		•Compile a suitable invasive alien plant (IAP) species control plan and programme to manage IAP's within the control of the development	invasive species				
		Implement IAP species surveillance and control plan within areas in the projects control, focusing particularly on areas of natural habitat					
1		•Monitor IAPs to inform further management intervention					
L	Construction	<ul> <li>Implement buffer zones or exclusion areas around important nesting or foraging sites to minimize disturbance</li> </ul>	Birds	Project owner/EPC	ESIA 2024	Biodiversity Management	All Proiect Worksites
			Habitat loss /degradation /	contractor		Plan	- <b>,</b>
			fragmentation				
		• Avoid site clearance during the breeding season. Where avoidance is not possible, use (ECoW) to prepare the environmental documentation on delivery of ecological requirements on site					
		before construction activities commence in order for contractors to meet key development milestones; The ECoW will monitor that site based construction activities are delivered in					
2		accordance to relevant laws and Project commitments;					
<u>-</u>	Construction	Install fence and mark work areas to minimise effects of vegetation clearance on birds.	Birds	EPC contractor	ESIA 2024	Biodiversity Management	All Project Worksites
			Direct Mortality			Plan	,
			Installation of overhead				
			transmission lines and pylons				
3							
	Construction		D: 1	D · · /500	5614 2024		
		•Conduct thorough surveys to identify and protect nesting sites before construction begins. Implement buffer zones around active nests and restrict construction activities within these areas		Project owner/EPC	ESIA 2024	Biodiversity Management	All Project Worksites
		during breeding season	Installation of overhead	Project owner/EPC contractor	ESIA 2024	Biodiversity Management Plan	All Project Worksites
		during breeding season •Eit suitable bird diverters at 5m intervals on OHTL	Installation of overhead transmission line and pylons		ESIA 2024		All Project Worksites
		during breeding season	Installation of overhead transmission line and pylons		ESIA 2024		All Project Worksites
	Pre-construction	during breeding season •Eit suitable bird diverters at 5m intervals on OHTL •Eits auitable bird diverters at 5m intervals on OHTL •Enstall insulation, covers, and other avian protection devices on electrical equipmenton OHTLs to prevent perching and contact. Regularly inspect and maintain the electrical infrastructure to ensure its effectiveness in mitigating electrocution risks.	Installation of overhead transmission line and pylons	contractor		Plan	
	Pre-construction	<ul> <li>during breeding season</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Enstall insulation, covers, and other avian protection devices on electrical equipmenton OHTLs to prevent perching and contact. Regularly inspect and maintain the electrical infrastructure to ensure its effectiveness in mitigating electrocution risks.</li> <li>•Conduct pre-construction checks for presence of bat roosts near construction sites</li> </ul>	Installation of overhead transmission line and pylons				
4	Pre-construction	<ul> <li>during breeding season</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Enstall insulation, covers, and other avian protection devices on electrical equipmenton OHTLs to prevent perching and contact. Regularly inspect and maintain the electrical infrastructure to ensure its effectiveness in mitigating electrocution risks.</li> <li>•Conduct pre-construction checks for presence of bat roosts near construction sites</li> </ul>	Installation of overhead transmission line and pylons Bats	contractor Project owner/EPC		Plan Biodiversity Management	
5		<ul> <li>during breeding season</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on electrical equipmenton OHTLs to prevent perching and contact. Regularly inspect and maintain the electrical infrastructure to ensure its effectiveness in mitigating electrocution risks.</li> <li>•Eonduct pre-construction checks for presence of bat roosts near construction sites</li> <li>•Einplement noise reduction measures to minimize noise-related disturbance near bat roosts</li> <li>•Eontrol of lighting to prevent light spill outside of construction areas through use of directional cowls</li> </ul>	Installation of overhead transmission line and pylons Bats Habitat loss /degradation / fragmentation	contractor Project owner/EPC contractor	ESIA 2024	Plan Biodiversity Management Plan	All Project Worksites
	Construction and	<ul> <li>during breeding season</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on OHTL</li> <li>•Eit suitable bird diverters at 5m intervals on electrical equipmenton OHTLs to prevent perching and contact. Regularly inspect and maintain the electrical infrastructure to ensure its effectiveness in mitigating electrocution risks.</li> <li>•Conduct pre-construction checks for presence of bat roosts near construction sites</li> <li>•Emplement noise reduction measures to minimize noise-related disturbance near bat roosts</li> <li>•Control of lighting to prevent light spill outside of construction areas through use of directional cowls</li> <li>•Establishing buffer zones around bat roosts</li> </ul>	Installation of overhead transmission line and pylons Bats Habitat loss /degradation / fragmentation Bats	contractor Project owner/EPC contractor Project owner/EPC	ESIA 2024	Plan Biodiversity Management Plan Biodiversity Management	All Project Worksites
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	Construction and operation Construction and operation Construction	during breeding season  •Pit suitable bird diverters at 5m intervals on OHTL  •Pistall insulation, covers, and other avian protection devices on electrical equipmenton OHTLs to prevent perching and contact. Regularly inspect and maintain the electrical infrastructure to ensure its effectiveness in mitigating electrocution risks.  •Eonduct pre-construction checks for presence of bat roosts near construction sites •Pimplement noise reduction measures to minimize noise-related disturbance near bat roosts •Eontrol of lighting to prevent light spill outside of construction areas through use of directional cowls  •Establishing buffer zones around bat roosts •Bit plement proper lighting protocols to minimize disturbance  •In the areas where no PV installations are constructed, but are part of the plant's service areas, grass and shrub vegetation should not be removed or should be revegetated. This will enable these areas to serve as temporary and permanent refuges for amphibians, reptiles, mammals and invertebrates •Pirohibit the use of pest control measures (rodenticides) to limit the population of rodents - it will cause unwanted mortality among rodents, but also re-poisoning of predatory mammals or birds.  •Establish exclusion zones or limiting construction activities in close proximity to active burrows •Establish exclusion zones or limiting construction equipment when woprking near active burrows •Establish exclusion zones or limiting construction equipment when woprking near active burrows •Englement a relocation plan. This involves capturing and translocating reptiles to suitable habitats away from the construction zone, ensuring their safety;Emplement measures to avoid	Installation of overhead transmission line and pylons Bats Habitat loss /degradation / fragmentation Bats Direct mortality Mammals Habitat loss /degradation / fragmentation. Direct loss of species Mammals Noise and vibration	contractor Project owner/EPC contractor Project owner/EPC contractor Project owner/EPC contractor EPC contractor	ESIA 2024 ESIA 2024 ESIA 2024 ESIA 2024	Plan         Biodiversity Management         Plan         Control Plan	All Project Worksites All Project Worksites All Project Worksites All Project Worksites

	Construction	•Implement strict noise and disturbance control measures during construction phase. This includes limiting construction activities during sensitive periods	Mammals Habitat loss /degradation / fragmentation Noise	EPC contractor	ESIA 2024	Biodiversity Management Plan	All Project Worksites
30	Construction	<ul> <li>Before the start of construction and during all stages of the construction, a team of environmental biodiversity experts must be present to the territories and, if necessary, remove amphibians or reptiles from the areas intended for construction, in accordance with the construction scheme. Thus, the probability of mortality of individuals will be significantly reduced.</li> <li>Establish buffer zones and construction exclusion zones around sensitive herpetofauna habitats to minimize disturbance</li> </ul>	Herpetofauna Habitat loss /degradation / fragmentation	EPC contractor	ESIA 2024	Biodiversity Management Plan	All Project Worksites
32	Construction	• Implement noise and vibration mitigation measures such as limiting noisy activities during sensitive periods (e.g., breeding season) and use equipment with noise reduction technologies.	Herpetofauna Noise and Vibration Disturbance	EPC contractor	ESIA 2024	Biodiversity Management Plan	All Project Worksites
33	Construction	<ul> <li>Establish avoidance and exclusion zones around known reptile habitats to minimise risk of direct impacts. Clearly mark and communicate these zones to construction personnel to ensure compliance;</li> <li>Implement a relocation plan. This involves capturing and translocating reptiles to suitable habitats away from the construction zone, ensuring their safety;</li> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures</li> </ul>	Herpetofauna Direct loss of species	Project owner/EPC contractor	ESIA 2024	Biodiversity Management Plan	All Project Worksites
34	Construction	<ul> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures; Bentify and compensate all land users for reduction in subsidies, including both formal and informal land users and prior to accessing the land;</li> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures; Provide compensation for loss of assets at replacement cost;</li> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures; Ensure appropriate disclosure of information, consultation, and the informed participation of those affected;</li> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures; Ensure appropriate disclosure of information, consultation, and the informed participation of those affected;</li> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures; Ensure appropriate disclosure of information, consultation, and the informed participation of those affected;</li> <li>Provide comprehensive training to construction workers and equipment operators on reptile conservation and the importance of implementing mitigation measures; Emprove or, at a minimum, restore the livelihoods and standards of living of affected persons to pre-project levels, so as to facilitate sustainable improvements to socio-economic status;</li> </ul>	Livelihood	Project owner/EPC contractor	ESIA 2024	Land Acquisition and Livelihoods Restoration PlanPlan	All Project Worksites
35	Construction	<ul> <li>Where possible seek to unbundle procurement contracts so that local community members have a greater chance of supplying the Project and advertise procurement contracts locally and in local languages.</li> <li>Confirm Silistra District communities will be considered 'local' for the purpose of local hiring.</li> <li>Where possible (i.e., the suppliers are competitive and can meet the technical requirements which need to be achieved), the Project Company (and their contractors) will seek to procure materials and services from SMEs based in the neighbouring locations to ensure that the positive effects of using SMEs are experienced as close to the Project site as possible to enhance the positive benefits of the Project at this location. This includes SMEs owned by women which shall be identified by the Company during the Project execution stage. Details will be included within the Contractor and Supply Chain Management Plan.</li> </ul>	Economy, employment and Income	Project owner/EPC contractor	ESIA 2025	Contractor and Supply Chain Management Plan.	Project sites
36	Construction	<ul> <li>Selection criteria, job profiles, and number of workers for the construction phase with specific attention to the enhancement of the local community, women, and vulnerable groups' employment.</li> <li>Clear communication of required involvement of local workforce and local companies, explaining requirements on qualification, availability, eventual training, etc.</li> <li>Description of the recruitment process and details of the recruitment information disclosure to local communities.</li> <li>Details of vocational trainings available to employed construction workers.</li> <li>Description of the Worker's Code of Conduct, highlighting labour conditions with an aim to reduce the risk of gender-based violence and harassment.</li> <li>Require all workers to sign the "code of conduct – workers"</li> <li>Details of worker's grievance mechanism that will be disclosed during the recruitment process and the employment period.</li> <li>A commitment to provide workers with a sufficient notice period as to when their job contract terminates.</li> <li>Monitoring indicators and the reporting timeline for the recruitment process and management of the workforce.</li> </ul>	Economy, employment and Income	Project owner/EPC contractor	ESIA 2024	Workforce Management Plan	All Project Worksites
	Construction and Operation	•Ensure regular, open and transparent communication with all stakeholders	Economy, employment and Income	Project owner/EPC contractor	ESIA 2024	Stakeholder Engagement Plan	All Project Worksites and location, Social Aol
57	Construction	• ascertain, prior to the construction phase, whether the local services are sufficient for workforce influx and, where appropriate, liaise with relevant authorities to limit the negative impact of the Project on local users' access to public services.	f Infrastructure and public services	Project owner/EPC contractor	ESIA 2024	Workforce Management Plan	All Project Worksites

Construction	• EPC Contractor to be cartified to ISO (15001 (or equivalent)	Occupational health and	Project owner/EPC	ESIN 2024	Occupational Health and	All Project Worksites
	<ul> <li>•EPC Contractor to be certified to ISO 45001 (or equivalent)</li> <li>•EPC Contractor to implement communication systems to enable communications from any part of the site.</li> </ul>	Occupational health and safety	contractor	ESIA 2024	Safety Plan	All Project Worksites
	<ul> <li>Install safety signage throughout the Project site, following GIIP specifications and codes of practice.</li> </ul>					
	Establish comprehensive OHS Plans for construction prior to commencemnet of costruction					
	Ensure all workers receive induction and regular ongoing OHS training					
	• EPC Contractor and subcontractors to hire HSE Managers and Officers (1:50 for construction workforce)					
	• Øonduct Project specific risk assessment.					
	•Develop a project specific Emergency Preparedness and Response Plan (EPRP)					
	• Include in the EPRP a medical evacuation procedure to enable injured workers to access appropriate emergency facilities.					
	•Ensure medical preparedness includes permanent on-site paramedic, first aid facilities and first aiders (ratio of 1:50 first aiders/workers) on site.					
	• Provide worker shelters, toilets and provisions (including drinking water) at work fronts across the site (not just at the main site camp).					
	• EPC contractor to employ at least one HSE Manager and one EPC Contractor HSE Officer for every 50 workers.					
	• Subcontractors with more than 20 workers shall deploy a dedicated HSE Officer and an additional HSE Officer for each additional 50 workers deployed onsite.					
	• Implement mitigation measures in relation to lead in the soil (including an assessment of required personal protective equipment (PPE) for workers and training in the risk of lead					
	contamination)					
	• Workers to receive correct PPE, free of charge and to be replaced when needed.					
	• Workers must receive appropriate training, prior to commencement of work and on an ongoing basis through toolbox talks, oriented by training plans.					
	<ul> <li>Drills (including OHS, spills, and emergency drills) should be undertaken regularly.</li> <li>Dirist aid facilities to be available at all work fronts.</li> </ul>					
	<ul> <li>Establish an accident and incident reporting procedure. Including providing incentives for reporting near misses and corrective actions.</li> </ul>					
	•Establish an accident and incident reporting procedure. Incidenting providing incentives for reporting near misses and corrective actions.					
Design/ contract/	• Incorporate safety requirements into the project design (design of the route of the OHTL to avoid health risk for the public and ensure the OHTL does not pass directly over any residential	Community health and safety	Project owner/EPC	ESIA 2024	Workforce Management	Social Aol
construction	property).		contractor		Plan	
	• Where necessary include fencing, safety signage (in locally used languages) and other relevant features to deter community members from entering the Project site.					
	• Dndertake a stakeholder engagement campaign to inform community members of the possible risks and impacts of the construction of the Project (refer to SEP), including traffic, grievance					
	mechanism, worker conduct, GBVH risks.					
	<ul> <li>Brepare a plan/strategy to guard workers and community members against contracting communicable diseases.</li> </ul>					
	•Employ local security guards and female guards where possible					
	•Dindertake OHS and emergency drills throughout the construction and operations phases.					
	<ul> <li>Installation of anti-climbing devices to avoid accidental or intentional attempts to access the site;</li> </ul>					
	•Painting with fluorescent colours of towers near the roads to make them visible.					
	•Design of the route of the OHTL to avoid health risk for the public and ensure the OHTL does not pass directly over any residential property					
	• Preventative maintenance to ensure the robust connection of the lighting protection (earthing) system					
	• Recommended techniques to prevent the electrocution hazards include use of signs, barriers, to prevent shock;					
	• The provision of automatic fire detection systems linked to automatic shutdown systems will allow them to be dealt with in the shortest possible time by disconnection from the power					
	supply systems. This prevention is connected with the Substation;					
	•After any damage has been assessed and documented in case of storm damage / wind damage, the utility companies will be notified. Lastly, if safe to do so, the damaged areas will be					
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Construction	<ul> <li>After any damage has been assessed and documented in case of storm damage / wind damage, the utility companies will be notified. Lastly, if safe to do so, the damaged areas will be protected from further damage</li> <li>Enforcement of Workers' Code of Conduct containing a set of rules on behavioural standards and cultural awareness requirements for all employees (including security personnel)</li> <li>Bouse workers from outside the area from the direct AOI in accommodation away from the immediate communities as much as possible, thereby reducing potential social tensions.</li> </ul>	Community health and safety	Project Owner	ESIA 2024	Workforce Management Plan	All Project Worksites
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Construction and	After any damage has been assessed and documented in case of storm damage / wind damage, the utility companies will be notified. Lastly, if safe to do so, the damaged areas will be protected from further damage     Protected from further damage     enforcement of Workers' Code of Conduct containing a set of rules on behavioural standards and cultural awareness requirements for all employees (including security personnel)     enforcement of Workers from outside the area from the direct AOI in accommodation away from the immediate communities as much as possible, thereby reducing potential social tensions.     Undertake cultural awareness training for migrant workers, should it be deemed necessary.     Security Personnel will have to:	Community health and safety	Project owner/EPC		Plan Workforce Management	All Project Worksites All Project Worksites
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Construction and	<ul> <li>After any damage has been assessed and documented in case of storm damage / wind damage, the utility companies will be notified. Lastly, if safe to do so, the damaged areas will be protected from further damage</li> <li>Enforcement of Workers' Code of Conduct containing a set of rules on behavioural standards and cultural awareness requirements for all employees (including security personnel)</li> <li>Bouse workers from outside the area from the direct AOI in accommodation away from the immediate communities as much as possible, thereby reducing potential social tensions.</li> <li>Undertake cultural awareness training for migrant workers, should it be deemed necessary.</li> </ul>	Community health and safety	Project owner/EPC		Plan Workforce Management	
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Construction and operation	•After any damage has been assessed and documented in case of storm damage / wind damage, the utility companies will be notified. Lastly, if safe to do so, the damaged areas will be protected from further damage •Enforcement of Workers' Code of Conduct containing a set of rules on behavioural standards and cultural awareness requirements for all employees (including security personnel) •Bouse workers from outside the area from the direct AOI in accommodation away from the immediate communities as much as possible, thereby reducing potential social tensions. •Undertake cultural awareness training for migrant workers, should it be deemed necessary. Security Personnel will have to: •Sign a "code of conduct – security" •Brain mediate in the rules of force, culturally appropriate engagement, and the Project's grievance mechanism. •Wara a uniform so that they are easily identified as security personnel, including a unique reference/label that can be used to make a grievance about a specific person. •Barder any incident. •Brain details about the Project's grievance mechanism that can be used to address any concerns promptly associated with the actions of security personnel and details as to how this is to be disclosed	Community health and safety - Security	Project owner/EPC contractor	ESIA 2025	Plan Workforce Management Plan	All Project Worksites
Construction and operation Contract / pre	<ul> <li>After any damage has been assessed and documented in case of storm damage / wind damage, the utility companies will be notified. Lastly, if safe to do so, the damaged areas will be protected from further damage</li> <li>Enforcement of Workers' Code of Conduct containing a set of rules on behavioural standards and cultural awareness requirements for all employees (including security personnel)</li> <li>Bouse workers from outside the area from the direct AOI in accommodation away from the immediate communities as much as possible, thereby reducing potential social tensions.</li> <li>Undertake cultural awareness training for migrant workers, should it be deemed necessary.</li> <li>Security Personnel will have to:</li> <li>Sign a "code of conduct – security"</li> <li>Be trained in the rules of force, culturally appropriate engagement, and the Project's grievance mechanism.</li> <li>Wear a uniform so that they are easily identified as security personnel, including a unique reference/label that can be used to make a grievance about a specific person.</li> <li>Bave adequate communications equipment so that personnel can request support during the start of any incident.</li> <li>Undertand details about the Project's grievance mechanism that can be used to address any concerns promptly associated with the actions of security personnel and details as to how this is to be disclosed</li> <li></li> </ul>	Community health and safety - Security Labour and working	Project owner/EPC contractor Project owner/EPC	ESIA 2025	Plan Workforce Management Plan Workforce Management	
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	Pre-construction/	The following measures required by IFC PS 2 will be implemented during the pre-construction and construction phase for the economy, employment and livelihood component:	Labour and working conditions	Project owner/EPC contractor	ESIA 2024	Workforce Management Plan	All Project Worksites
	construction	Collaborate with the State Employment Offices;     Collaborate with local institutions (Municipality and Administrative Units)	conultions	CONTRACTOR		ridii	
		• Put in place transparent and fair recruitment procedures					
		Implement Worker code of conduct (including grievance mechanism)					
		•Strictly follow the Bulgarian Code of Work requirements;					
		• JFC PS 2 Labor and Working Conditions;					
		•Adopt and maintain human resources policies and management systems or procedures with the requirements of PS 2 and national law. These policies and procedures will be					
		understandable and accessible to workers, and in the main language(s) spoken by the workforce. HR policies and management will ensure:					
		•Non-discrimination and equal opportunities to all workers;					
		<ul> <li>Compliance with national laws and international standards regarding employment of minors;</li> <li>Avoidance of any form of forced labour and child labour;</li> </ul>					
		• Provide clear and transparent information on wages, benefits and working conditions;					
		• Provide workers with a safe and healthy work environment;					
		• ase an international workforce for a term-limited period for compliance and training purposes, where national personnel cannot be sourced.					
		• Implement a grievance mechanism open to employee and non-employee workers. Ensure that all workers directly and indirectly employed are informed on how to submit grievances.					
		• Prepare a Worker Accommodation Management Plan					
		• Provide equal trainings for men and women;					
		In field training during the development of implementation phase, also through Contractor/s and Sub-Contractors;      Extendiate training and to training any provide the transformer to increase the increase t					
		<ul> <li>•Establish training and re-training program that specifically target women, to increase their opportunities;</li> <li>•Define number of persons to be interviewed for a new position which need to be women;</li> </ul>					
		• Denie number of persons to be interviewed for a new position which need to be women; • Dearly indicate that the position opportunity is for both men and women;					
		• Provide a women friendly working environment.					
						1	
	Construction/	•Contractors will be contractually required to maximise use of local workforce in the Project;	Labour and working	Project owner/EPC	ESIA 2024/GIIP	Workforce Management	Project site
	operations -	• Prioritize employment of members of vulnerable groups and individuals	conditions	contractor		Plan Stakobolder er state	
	enhancement	• The presence of a CLO through the construction phase will allow any future issues to be identified and addressed referring to women and vulnerable groups and individuals;	Economy, employment and			Stakeholder engagement plan	
		<ul> <li>Bh order to increase the project's Local Content, the Company will aim to procure goods, services and materials from local businesses to the extent possible;</li> <li>Ensure priority of woman owned business during the procurement process</li> </ul>	Income			pian	
		<ul> <li>Company will provide information on procurement, tendering, and contracting processes with a transparent and clear approach, to ensure that equal access to opportunities is guaranteed;</li> </ul>					
		• Information on procurement opportunities will be given to local businesses, through tailored communication with Local authorities and other appropriate parties;					
		•Eocal companies identified as able to provide goods, materials and services during the strategical analysis will be contacted directly providing information on tendering opportunities					
	Construction	• Require all workers to sign the "code of conduct – workers"	Labour and working	EPC contractor	ESIA 2024	Health & Safety	Project site
		<ul> <li>• Provide workers with safety equipment to prevent occupational health issue and reduce the number of accidents at work</li> <li>• Provide regular training on first aid and safety responses in order to limit accidents' impact on workers' health</li> </ul>	conditions			Management Plan	
		•Elovide regular training on instald and salety responses in order to innit accidents impact on workers meaning					
	Construction	•Ensure appropriate accommodation is provided to all workers, in line with IFC PS2 and national requirements	Labour and working	EPC contractor	ESIA 2024	Workforce Management	Project site
	construction		conditions		L3IA 2024	Plan	Froject site
	Construction	•Demarcate construction boundaries and minimize areas of surface disturbance;	Landscape	EPC contractor	ESIA 2024	Topsoil Management and	Project site
		•Where possible, locate laydown areas and construction camps in areas that are already disturbed or cleared of vegetation;				Site Reinstatement Plan	
		•Eor the construction site maintenance, conduct good housekeeping on site to avoid litter and minimize waste;					
		• Dise existing tracks/roads for access, where possible; and • Within the environmental management system, prepare a restoration management plan including replanting indigenous species, and landscaping and rehabilitating construction vards					
		• Within the environmental management system, prepare a restoration management plan including replanting indigenous species, and landscaping and rehabilitating construction yards.					
	Construction and	<ul> <li>Where possible, locate laydown areas and construction camps in areas that are already disturbed or cleared of vegetation;</li> </ul>	Visual	EPC contractor	ESIA 2024	Topsoil Management and	Project site
	Construction and operation	•Monere possible, locate laydown areas and construction camps in areas that are already disturbed or cleared of vegetation; •Eor the construction site maintenance, conduct good housekeeping on site to avoid litter and minimise waste;	visudi		LJIA ZUZ4	Site Reinstatement Plan;	ri oject site
		•Minimise night lighting while guaranteeing the minimum safety level;				Health & Safety	
		•Dise of materials that will minimize light reflection should be used for all Project components;				Management Plan	
		•Existing vegetation should be retained to the greatest extent possible. Vegetation should be retained along roads, and other Project infrastructure				-	
	Construction and	• Behabilitation of all viable disturbed areas (e.g. temporary access tracks and laydown areas) must be undertaken following construction. This must be done in such a way so as to facilitate	Ecosystem services	EPC contractor	ESIA 2024	Topsoil Management and	All Project Worksites
	operation	natural regeneration of vegetation;				Site Reinstatement Plan:	
		•Maintain ongoing engagement between the Project and local communities, with communities informed in advance of any vegetation clearing to allow pre-harvesting of resources such as				Stakeholder Engagement	
		building materials or other useable resources.				Plan	
	Docign/	Biolude in Dreject contract requirements to rectore evicting reads or private preparts during or at the and of construction estimities. Any increases to will have a section because the	Traffic	EDC contractor	ESIA 2024	Traffic and transport	All Project Morkeiter
	Design/ pre- construction	• Binclude in Project contract requirements to restore existing roads or private property during or at the end of construction activities. Any improvements will leave a positive legacy on the local road conditions, benefiting the local communities.	Traffic	EPC contractor	ESIA 2024	Traffic and transport Management Plan	All Project Worksites
		•Consider excluding Access option three which requires access through the village of Polkovnik Lambrinovo.				management ridit	
		Design laydown area and delivery approach to minimise vehicle stopping outside the site.					
		• Biclude clause in the EPC contract that that any damage to road (wear and tear over the construction period) must be repaired and 'made good'.					
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	Construction	<ul> <li>Prepare a traffic and transportation management plan (TMP)</li> <li>Work with local authorities in scheduling truck deliveries, especially oversized truck deliveries, to reduce impacts on road function and safety. Specifically: <ul> <li>Where safe and feasible, schedule deliveries to minimise travel impacts for other road users based upon local conditions and the results of stakeholder engagement.</li> <li>Consider scheduling deliveries during non-peak hours and at intervals to avoid queuing of delivery vehicles along public roads near the access points to internal Project roads.</li> <li>Demarcate delivery roads and access tracks across the site and ensure all workers stick to demarcated areas.</li> <li>ELO to engage the local community to inform them of the start of construction works and timings for large vehicle deliveries</li> <li>The driving along unsurfaced roads.</li> <li>No night-time deliveries</li> <li>Maximum of 40 km/h on the section of road between R218 and Polkovnik Lambrinovo</li> <li>During preconstruction surveys, perform a photographic assessment of road condition and private properties adjacent to the local road and R218.</li> </ul> </li> </ul>	Traffic	Project owner/EPC contractor	ESIA 2024	Traffic Management Plan; Stakeholder Engagement Plan	All Project Worksites
52	Construction	Include in TMP the following GilP as a minimum:  Measures to transport Project components as well as transportation of workers.  Prepare a disclosure plan for community members, to inform as to the start of construction works and timing and Project impacts along the transportation route.  Plan and implement awareness campaigns on risk related to the traffic increase, especially in the schools present in the area.  Plan and implement awareness campaigns on risk related to the traffic increase, especially in the schools present in the area.  Plan and implement awareness campaigns on risk related to the traffic increase, especially in the schools present in the area.  Plan and implement awareness (on transport for construction and submit reports to local road authorities. (pre-construction),  Transportation will be protected and patrolled by crash trucks and/or possible police escort to guarantee the safety of other road users and to inform the respective authority for the overloaded trucks.  Address transport all necessary road improvements or alterations prior to deliveries. If necessary, construct bypasses to avoid hazards to properties or other road users at construined road segments or intersections. (pre-construction, decommissioning)  Postain permits and implement all necessary roads will adequate geometrics and load-bearing capacity for safe passage. (pre-construction, construction, operations, decommissioning).  Peagair oad damage resulting from construction raffic during construction period Plan truck routes for non-oversized loads using roads with adequate geometrics and load truck speed limits during the construction pass.  Prequent testing of drivers to eliminate dirik driving, also check for use of satabelts and identify speed limits that area monitored during the construction phase.  Planetrake route and access surveys on road condition and ensure that damage to existing roads are repaired promptily and that roads are left in original or better condition at the end of construction activities. Work w	Traffic	Project owner/EPC contractor		Traffic Management Plan; Stakeholder Engagement Plan	All Project Worksites
53	Construction, operation, decommissioning	<ul> <li>Establish and implement standards addressing the following:</li> <li>Training and accreditation for project drivers, including contractors.</li> <li>Driver fitness standards, including mandatory rest periods and prohibition of drug/alcohol use.</li> <li>Th-vehicle monitoring systems to monitor vehicle speed and location (Project vehicles and contractors).</li> <li>Project and contractor standards for vehicle safety and maintenance.</li> <li>Security response for vehicle incidents.</li> <li>Poad stability standards.</li> </ul>	Traffic	EPC contractor	ESIA 2024	Traffic Management Plan	All Project Worksites
55	Construction	<ul> <li>Project Company to confirm no feature of archaeological interest are known through formal communication with the National Institute of Archaeology under the Academy of Sciences of Bulgaria</li> <li>EPC contractor to establish a chance-find procedure (including national and lender requirements and following GIIP) for the construction phase or any phase that requires excavation work.</li> <li>Train excavation workers in chance find procedure during the induction.</li> <li>Should items of cultural heritage be identified, they should be managed in line with the chance find procedure and any requirements of the National Institute of Archaeology under the Academy of Sciences of Bulgaria of any find.</li> </ul>	Cultural heritage	Project owner/EPC contractor	ESIA 2024	Cultural Heritage Management Plan	All Project Worksites

# ATTACHMENT 3: MITIGATION AND MANAGEMENT SUMMARY OF ESIA

### **MITIGATION AND MANAGEMENT COMMITMENTS - PRE-MOBILIZATION PHASE**

Objective	Activity	Action	Responsibility	Timescales	Relevant Management Plan / Monitoring / KPl
Comply with national permit requirements.	Environmental permits Labor permits Construction permits Transportation permits	Develop Permit Register (name, phase, requirements, and lead)     and set out conditions register.	Project Company / EPC Contractor	Pre-construction	Permit matrix – monthly updates
Pre-mobilisation biodiversity surveys	Pre-site clearance	<ul> <li>Check for introduction of species included in the list of invasive and potentially invasive alien species (of higher plants for Bulgaria, indicator SEBI10 - Invasive alien species for Europe (source EAES <u>http://eea.government.bg/bg/soer/2010/biodiversitv-nem/biologichno-raznoobrazie-natsionalna-ekologichna-mrezha-1</u>)</li> <li>Apply a rotation scheme on small areas moving from east to west to remove vegetation around the PV facilities - panels, inverters and others in accordance with the instructions of an ecologist/biologist, as a result of monitoring (before starting removal activities of vegetation). This will enable species from the groups of amphibians, reptiles, mammals and partially from invertebrates to move to neighbouring territories and limit disturbance and possible mortality</li> <li>Remove amphibians or reptiles from the areas intended for construction, in accordance with the construction scheme.</li> </ul>		Pre-mobilisation	Biodiversity survey plan (prior to survey) Biodiversity survey report (post-survey)
Pre-mobilisation roads condition survey	Pre-construction	<ul> <li>Undertake a survey of the condition of the roads that will be used by construction traffic and record details. Identify areas where work may be required to improve quality/make roads suitable for construction traffic.</li> </ul>		Pre-mobilisation	Survey report
Pre-mobilisation	Transportation routes, risk assessment and traffic counts	Undertake transportation route risk assessment including traffic counts to better understand the potential impacts of the Project generated traffic (construction and operations)		Pre-mobilisation	Traffic risk assessment and traffic count report
Implement robust ESMS for the duration of the Project	Site implementation from NTP to COD	<ul> <li>Prepare the Owner ESHS Management</li> <li>Establish the EPC-ESHS Management Plan</li> </ul>	Project Company EPC Contractor	Pre-Financial close Pre-Construction	C-ESMS EPC-ESMS
Demonstrate contractor capacity to implement the E&S requirements for the Project.	Organization	<ul> <li>Populate Project Company Project Implementation Team (as per section 3.0 of ESMP)</li> <li>Define Contractor Project Implementation Team (as per section 3.0 of ESMP)</li> </ul>	Contractor	Pre-mobilization	Sponsor organogram (approved by Lenders)
Ensure a transparent and robust supply chain	Supplier selection	Unbundle procurement contracts so that local community members have a greater chance of supplying the Project and advertise procurement contracts locally and in local languages.	Project Company / EPC Contractor	Pre-mobilization	Panel procurement DD (performed by Company affiliate).



Objective	Activity	Action	Responsibility	Timescales	Relevant Management Plan / Monitoring / KPl
		<ul> <li>Perform panel supply chain due diligence or obtain third-party supply chain due diligence reports to verify potential suppliers' credentials regarding the occurrence of forced labour, child labour or occupational health and safety failures. The supply chain will be mapped (to the polysilicon level) and verified by an independent consultant for the point of origin. For all other materials adopt the Company Supply Chain and Procurement Policy that includes the following obligations:         <ul> <li>Prohibit forced labour at the Site and in the supply chain.</li> <li>Prohibit the hiring of child labour at the Site and in the supply chain.</li> <li>Preference for using local suppliers where possible.</li> <li>Maintain an employee register.</li> <li>Preference suppliers who remove packaging waste for ultimate disposal (following Uzbek regulations and transboundary waste disposal obligations)</li> </ul> </li> </ul>			Supply Chain and Local Employment and Procurement (see Appendix C)
Promote the use of local workers on the Project	Procurement of local labour and contractors	<ul> <li>Develop Local Hiring Procedure as part of the Labour and Working Conditions Plan including: <ul> <li>Workforce requirements for the construction and operation phase for Company, the EPC Contractor and subcontractors, including the number of E&amp;S personnel and their qualifications.</li> <li>Key competencies for all roles with plenty of notice to mobilize local recruitment.</li> <li>Hiring needs.</li> <li>Local counterparts for advertising project needs (skilled and unskilled workers) may be sourced from the local labour pool.</li> <li>Mechanism for promoting women working on the Project.</li> <li>Prioritise local unskilled/semiskilled local employees.</li> <li>Definition of working terms and conditions (salary, etc.) for each role on site.</li> <li>Nominate an EPC Contractor HR manager to oversee employment matters on the Project.</li> </ul> </li> </ul>	Contractor (subcontractors)	Pre-mobilization	Local Hiring Plan (accepted by Project Company) EPC Contractor HR manager
Implement good international industry practice (GIIP) for site management and coordination.	Notification of works	<ul> <li>Following GIIP undertake the following:</li> <li>Plan and give regulators advanced warning of potential problems and the start of work.</li> <li>Always display on Site the emergency number for regulators and local community leaders at key worksites.</li> <li>Ensure site personnel know the correct procedure for reporting incidents</li> </ul>	EPC Contractor	Pre-mobilization	Monthly update via the PIT
	Managing sub-contractor mobilization)	<ul> <li>Follow IFC Good Practice Guidance note: Managing Contractors Environmental and Social Performance (section 4.5) including:</li> <li>Sub-contractors should provide work completion certificates and EHS certificates to prove their past environmental performance before hiring.</li> </ul>	Contractor (subcontractors)	Part of the contractor tender process	Proof of checks, training records Site inspection records HR policies approved by EPC Contractor



Objective	Activity	Action	Responsibility	Timescales	Relevant Management Plan / Monitoring / KPI
		<ul> <li>Ensure subcontractors have a copy of the Project ESMP and Owner ESHS Management Sub-plans and EPC-CMPs as part of the tender process. Ensure sub-contractors attend environmental training/induction sessions (communicated to workers in their main language(s) spoken).</li> <li>Audit the performance of sub-contractors during the Project.</li> <li>Adhere to the local hiring policy (see below) for prioritizing local contractors.</li> <li>Require sub-contractors to provide a copy of their HR policy for approval, or they commit to following the EPC Contractor's/ Project Company HR policy that meets Lender and ILO requirements and prohibits explicitly child and forced labour use, OHS management and encourages non-discrimination.</li> </ul>			
	Management and site control	<ul> <li>Nominate a person within Contractor's organization with defined responsibility for the ESHS role in Project.</li> <li>All method statements to include ESHS requirements.</li> <li>All PTW forms to include reference to ESHS (including community and climate risks).</li> <li>Through relevant training, ensure everyone on Site is aware of their responsibilities and liabilities with respect to the environment and social responsibility.</li> <li>Through site induction, inform staff and visitors of Project environmental issues and standards (including labour, climate, ESHS and security risks).</li> <li>Display warning signs at key work sites prominently</li> <li>Make Project Company environmental policy available to all on Site</li> </ul>	EPC Contractor	Throughout project works	Successful third-party audit (Project Company)
		<ul> <li>Protect primary work sites against vandalism, theft, and breakage with permitter fence (a temporary permitter fence must be erected if the permanent site fence is not erected at mobilisation)</li> <li>Define responsibilities for site's security in a Security Management Plan (as defined below) while the services are being performed.</li> <li>Secure the Project boundary with a secure fence.</li> </ul>	EPC Contractor		
	All Site works	<ul> <li>Establish a safe working environment with an occupational health and safety (OHS) plan that addresses potential hazards, identifies preventive and protective measures, including training and use of PPE, and describes documentation and reporting of accidents, diseases and incidents.</li> <li>Where possible, the storage of materials should be carried out only in areas around the airport runway</li> </ul>	Contractor (subcontractors)	Throughout project works	OHS Plan



Objective	Activity	Action	Responsibility	Timescales	Relevant Management Plan / Monitoring / KPl
	Liaison with the local community	<ul> <li>Identify the key local representatives and inform them of the Project's progress.</li> <li>Nominate a community point of contact in the Contractor team and Operations team (Contractor social officer)</li> <li>Display a contact board at the perimeter of key work sites stating contact details in case of a complaint or comment.</li> <li>Use this board to display information about project phasing and other relevant matters.</li> <li>Implement the requirements of the grievance mechanism and stakeholder engagement plan (SEP)</li> <li>Deal with any grievances that arise quickly and follow the defined grievance procedure.</li> <li>Create a log of grievances and ensure they are appropriately followed up and resolved.</li> </ul>	Project Company CLO	Start of Site works – ongoing after that.	Monthly audits Communication records CLO Daily Site walk around Grievance logs Number of complaints
Ensure general site housekeeping and environmental protection	Daily and weekly site inspections of permanent work sites	Work sites will be subjected to "walk-round" site inspection by the contractors' EHS management staff daily.	EPC Contractor (oversight by Project Company)	Throughout project works	Site inspection records Number of complaints Target zero
Asbestos	Asbestos containing material (ACM) risk assessment	<ul> <li>Undertake ACM risk assessment to determine the likelihood of ACM being present in the remaining and former airport buildings (construction waste).</li> <li>If ACMs are identified, an ACM Management and Disposal Plan shall be developed, and appropriate ACM waste disposal shall be undertaken.</li> </ul>	EPC Contractor (oversight by Project Company)	Prior to construction	ACM risk assessment report / ACM Management and Disposal Plan
Noise	Establish baseline at all nearest noise sensitive receptors including along transportation route	<ul> <li>Supplement noise baseline in Polkovnik Lambrinovo at the nearest sensitive receivers. The noise level will be measured near the nearest house or other sensitive receptor in Polkovnik Lambrinovo (minimum of 2 points) and at the access road of the PV plant from road 218 during the material transport activities and compared to the admissible limits. Monitoring locations will be recorded to allow repeat monitoring if required</li> </ul>	Project Company	To be completed before start of construction	Noise baseline report
Vibration	Conduct photographic survey of properties along the R218 and "local access road"	Obtain photographic baseline along R218 and "local road" in case of complaints or instances of dilapidation which may be attributed to the	Project Company	To be completed before start of construction	Road and property condition report



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
Dijective Minimise dust generation within the direct AOI (250m from he works)	Project Activity         Earthworks, material handling (measures to control dust from vehicle activities described under traffic and transportation) (C&D)         Infrequent maintenance activities (O&M).	<ul> <li>Action</li> <li>As part of the Environment, Pollution Prevention and Control CMP, develop procedures for the implementation of the following GIIP and the requirements of the Project Owner Pollution Prevention and Control Plan: <ul> <li>Locate activities and rock/earth stockpiles more 250m from the L-S Protected Area.</li> <li>No plant or equipment to be stored less than 250m from the L-S Protected Area</li> <li>Construction Traffic Management Plan (CTMP) to incorporate all relevant mitigation measures for vehicle movement nearby and within the project areas</li> <li>Use off-site concrete batching off-site for all concrete needs.</li> <li>Minimise stockpiling of soil and earthen material through coordination of earthworks and excavation activities (excavation, grading, compacting, etc.)</li> <li>Demarcate work areas and access roads.</li> <li>Cover, seed, or fence stockpiles to prevent wind whipping.</li> <li>Keep stockpiles for the shortest possible time.</li> <li>Consider the prevailing wind direction when siting stockpiles to reduce the likelihood of affecting sensitive receptors.</li> <li>Burning of any material anywhere on the Project construction sites is strictly prohibited</li> <li>Minimise amounts of material handling and avoid double handling.</li> <li>Minimise open excavation areas</li> <li>Seal or re-vegetate completed earthworks as soon as reasonably practicable after completion.</li> <li>Ensure all vehicles carrying loose or potentially dusty material are fully sheeted to or from the Site.</li> <li>Cement and other fine powders will be sealed or put in bunded containers after use.</li> <li>Regular (daily) visual monitoring of dust episodes, soiling of vegetation, dust resuspension on the roads and dust clouds.</li> <li>Minimise vegetation clearance (when is possible) to reduce exposure of bare soil, and revegetate cleared areas as soon as possible.</li> <li>Provide workers with relevant PPE, including dust masks.</li> <li>Require all contractors to have an on-site area for shelter during d</li></ul></li></ul>	Responsibility EPC Contractor (subcontractors)	Timescale         Construction	Monitoring / KP Site inspection records Community grievances
Minimize the impact of	Earthworks, material	to resolve the situation in the logbook. As part of the Environment, Pollution Prevention and Control CMP, develop procedures for the	EPC Contractor	Construction	Site inspection
fugitive emissions from vehicle exhausts and	handling/vehicle movements	implementation of the following GIIP and the requirements of the Project Owner Pollution Prevention and Control Plan:	(subcontractors)		records

### MITIGATION AND MANAGEMENT COMMITMENTS – CONSTRUCTION



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
equipment on receptors along with the direct AOI and delivery routes up to the Material and Equipment Laydown Area.		<ul> <li>Use modern machines and equipment, which comply with the latest EURO standards regarding construction of new engines, emission control systems, considering the global trend of manufacturing engines with low fuel consumption on power unit and restrictive emission control.</li> <li>Conduct periodic checks, according to the legislation in the field, for the machines and means of transport involved in the construction works, so that they are in good technical condition and do not emit exhaust gases beyond the permitted limits.</li> <li>All construction machinery and equipment to be maintained in good working order</li> <li>Monitor all engines and equipment that are turned off when not in use.</li> <li>Locate machinery and dust-causing activities (e.g., access roads, stockpiles) away from nearby sensitive receptors where practicable and more than 250m from the S-L Protected Area.</li> <li>Minimise movement of construction traffic around the Site (use demarcated routes only).</li> <li>Keep vehicle movements to a minimum.</li> <li>Enforce speed limits and reduce vehicle movements (maximum of 10km/h) for project vehicles on unsurfaced roads)</li> </ul>			Construction reports
Minimise noise emissions	Operation of site equipment	<ul> <li>vehicles on unsurfaced roads).</li> <li>Demarcate specific routes from the existing road to the right of way that maintain a buffer of at least 250m from NSR where possible.</li> <li>Restriction of construction activities to daytime hours and weekdays</li> <li>No noisy or high-noise activities are to be undertaken outside regular working hours (7 am to 6 pm) without prior approval of the Project Company</li> <li>Select equipment with lower sound power levels</li> <li>Install suitable mufflers on engine exhausts and compressor components</li> <li>Install vibration isolation for mechanical equipment</li> <li>Avoid simultaneous work activities that generate high levels of noise/ vibration emissions</li> <li>Inform nearby dwellings on the timing and duration of works and when the noisiest stages will likely occur (ongoing through the process).</li> <li>Plant and equipment are to be examined daily for defects before the start of work, and under no circumstances should defective equipment be used.</li> <li>Acoustic covers on machine engines are to remain closed when in operation.</li> <li>Avoid unnecessary revving of engines and equipment to be switched off when not in use.</li> <li>Site operatives are to be briefed on keeping noise to a minimum.</li> <li>No blasting without prior approval of the Project Company.</li> <li>Locate static plant (e.g., generators) to take advantage of any screening to break the line of sight from receptors.</li> <li>Brief site operatives to keep noise minimal as part of the induction process.</li> <li>Following the SEP, inform receptors when work will commence and any particular noisy works.</li> <li>Use the community grievance mechanism (CGM) to receive and process noise complaints.</li> </ul>	EPC Contractor (subcontractors)	Construction	Site inspection records Construction reports
	Construction traffic	<ul> <li>Limit vehicle speeds on-site to a maximum of 20km per hour.</li> <li>All vehicles to undergo regular maintenance schedules following national statutory requirements.</li> </ul>	EPC Contractor (subcontractors)	Construction	Site inspection records Construction reports
Minimise waste generation	Construction PB/BESS/OHTL / substation	Select PV panel suppliers that can ensure take-back and recycling of PV panels during the operation phase and end-of-life decommissioning.	Project Company	Construction	Waste logs



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
		<ul> <li>Ensure selected PV modules and battery supplier contract includes all costs for returning and decommissioning PV panels (intermittently during operation and end of life).</li> <li>Prohibit the following materials in EPC Contract / Procurement Policy         <ul> <li>Asbestos</li> <li>PCB containing materials</li> <li>Lead-based paints</li> <li>Pesticides and herbicides as defined under the Stockholm convention.</li> </ul> </li> <li>Consider off-site manufacture and design for disassembly to minimise resource use.</li> </ul>			
Minimise impact on water resources	Construction PV/OHTL / substation	<ul> <li>Construct the perimeter drainage system, to act as a cut-off drain to protect the S-L Protected Area during earthworks as set out in Pollution Prevention and Control Plan which includes the surface water management requirements.</li> <li>Ensure the drainage system includes a containment system for collecting intermittent contaminated wastewater streams, from abnormal operating scenarios or during wet cleaning of panels (maximum of 4 times per year).</li> <li>No storage or laydown areas within 250 m of the S-L Protected Area</li> <li>No groundwater abstractions for potable or construction-related purposes.</li> <li>Sanitary waste will be collected in portable latrines or septic tanks, and wastewater will be collected for disposal off-site in a municipal wastewater treatment facility (under licence).</li> <li>Portable latrines or septic tanks must be installed at least 250m from the S_L Protected Area, with leak prevention and detection measures.</li> <li>Undertake groundwork to ensure appropriate site drainage (avoiding risk of contaminated runoff)</li> <li>No direct discharge or uncontrolled releases of potentially contaminated water to the ground, e.g., concrete washout or oily wastewater (see actions on spill control below).</li> <li>Establish a controlled concrete washout area (on Site) (note – no concrete batching on site)</li> <li>Areas where spillage of contaminants occurs should be erchabilitated.</li> <li>The washing of Project vehicles in any surface water bodies in and around Project site(s) will be strictly prohibited. All Project vehicles should be washed at designated wash bays on site/s. These wash bays will include oil/grease and sediment traps for grey water.</li> <li>Prevent any ad-hoc maintenance of vehicles/equipment in and around the Project site(s). All vehicles/equipment should be maintained at a designated workshop. The workshop will include an oil/grease trap.</li> <li>Maintain all active work areas in a good and tidy condition</li></ul>	EPC Contractor (subcontractors)	Construction	Site inspection records Construction reports
Sustainable water use	Construction PV/OHTL / substation	<ul> <li>Drinking/potable and construction water will be sourced from the municipal supply and tankered to the Site (under permit).</li> <li>All concrete will be delivered to the Site pre-mixed with approved water use licences.</li> <li>Potable water should be obtained from a sustainable source (and not obtained from S-L Protected Area).</li> </ul>	EPC Contractor (subcontractors)	Construction	Site inspection records Construction reports



Objective	Project Activity	Action	Responsibility
Objective Minimise impact from wastewater	PV Site/ROW clearance	<ul> <li>The contractor will develop a Wastewater Management Plan in compliance with Bulgarian legislation, IFI Requirements and GIIP (good international industry practice) that will also include measures to ensure:</li> <li>Temporary offices have adequate wastewater handling and disposal facilities. Their disposal must be made in close collaboration with the local government authorities (i.e., municipalities) and licensed companies.</li> <li>Provide sufficient toilets at active work areas for staff and workers and these should be serviced regulariy by a competent and suitably qualified person.</li> <li>Undertake due diligence of the WWTP in Silistra for alignment with GIIP</li> <li>Excavation must not occur in extreme weather conditions (rain, strong wind).</li> <li>Prohibit discharge of the resulting water during the construction period, on the ground, on the site or in the vicinity.</li> <li>Removal of oil products accidentally leaked from machines in operation will be carried out using absorbent materials that will then be stored in specially arranged spaces and handed over to the authorized units for collection and/or disposal.</li> <li>Handling of materials or other substances used in technologies will be carried out in such a way as to avoid their dissolution and entrainment by precipitation waters.</li> <li>Equipment and vehicles will be periodically checked to avoid the possibility of accidental leaks due to defects.</li> <li>Storage of materials within the construction site must be secure with adequate and efficient handling practices to avoid losses and accidental pollution</li> <li>Provide culverts along new access roads to facilitate drainage along with ditches. Where practical, exposed surfaces and friable materials should be covered.</li> <li>Washing of vehicles and equipment will be done exclusively in areas specially designed for such operations.</li> <li>Avoidance of refuelling on site to prevent oil splils. If this is not possible, procedures will be developed to avoid accidental splilage, li</li></ul>	Responsibility EPC Contractor
		<ul> <li>prevent and combat accidental pollution.</li> <li>Comply with the environmental and execution conditions of the works imposed in the project for the execution of the works.</li> <li>Good general housekeeping.</li> </ul>	
		<ul> <li>Conduct continuous training and education awareness of all project employees regarding waste management practices to avoid reducing the risks of waste generation and potential impact during the construction phase.</li> <li>Sanitary wastewater tanks to be properly maintained and inspected to ensure tanks do not overflow.</li> <li>Site inspections will be carried out regularly by the EPC Contractor to ensure that all wastewater generated is properly managed, and no leakages or spill occur. In the event of a</li> </ul>	



Timescale	Monitoring / KPI
Timescale Construction	Monitoring / KPI Wastewater discharges

Objective	Project Activity	Action	Responsibility
Objective Minimise road hazards, congestion, and damage to road infrastructure (surfaced roads) and residents along the route (see also CHS below)	Project Activity         PV Site/ROW clearance         Equipment delivery	<ul> <li>spill or overflow, immediate action will be taken in accordance with spill containment procedures and clean up procedures.</li> <li>Engage a licensed waste/wastewater contractor for the periodic emptying of septic tanks.</li> <li>Any wastewater disposed of offsite must be assigned to appropriately licenced waste contractors and be transported to appropriate wastewater managements facilities.</li> <li>Contractors should use a pre-defined route to the material and equipment laydown area (EPC to confirm delivery route)</li> <li>Design laydown area and delivery approach to minimize vehicle stopping outside the site</li> <li>Obtain any necessary approvals.</li> <li>Include clause in the EPC contract that that any damage to road (wear and tear over the construction period) must be repaired promptly and that roads are left in original or better condition at the end of construction activities</li> <li>Survey the condition of roads to be used for concrete supply, equipment, and component deliveries prior to construction and submit reports to local road authorities. (pre-construction).</li> <li>During preconstruction surveys, perform a photographic assessment of road condition and private properties adjacent to the local road and R218.</li> <li>Undertake periodic route and access surveys throughout construction on road conditions and ensure that any damage to existing roads is repaired promptly and that roads are left in original or better condition at the end of construction activities</li> <li>Undertake road improvements where needed to facilitate road traffic generated by the Project.</li> <li>Consider excluding access option three which requires access through the village of Polkovnik Lambrinovo.</li> <li>Work with local authorities in scheduling truck deliveries, especially oversized truck deliveries, to reduce impacts on road function and safety. Specifically, where safe and feasible, schedule deliveries to minimise travel impacts for other road users based upon local conditions and the results of stakehol</li></ul>	Responsibility         EPC Contractor (subcontractors)
		<ul> <li>Work with local authorities in scheduling truck deliveries, especially oversized truck deliveries, to reduce impacts on road function and safety. Specifically, where safe and feasible, schedule deliveries to minimise travel impacts for other road users based upon local conditions and the results of stakeholder engagement.</li> <li>Consider scheduling deliveries during non-peak hours and at intervals to avoid queuing of delivery vehicles along public roads near the access points to internal Project roads.</li> <li>Demarcate delivery roads and access tracks across the site and ensure all workers stick to demarcated areas.</li> <li>CLO to engage the local community to inform them of the start of construction works and</li> </ul>	
		<ul> <li>timings for large vehicle deliveries</li> <li>Install appropriate signage to inform local communities and road users of site access points.</li> <li>No night-time driving along unsurfaced roads.</li> <li>No night-time deliveries</li> <li>Maximum of 40km/h on the section of road between R218 and Polkovnik Lambrinovo</li> <li>Signage on R218 and local roads after Silistra to advise road users of the construction site entrance.</li> <li>No stopping of Project-related vehicles or abnormal loads is allowed between Silistra and the Relimination.</li> </ul>	
		<ul> <li>Project site.</li> <li>Plan and implement awareness campaigns on risks related to the traffic increase, especially in the schools present in the area.</li> </ul>	
Develop Transport and Traffic management Plan (TMP)	Project construction and operations	<ul> <li>Develop TMP to include the following GIIP and align with IFC EHS General Guidelines. Include in TMP the following GIIP as a minimum:</li> <li>Measures to transport Project components as well as transportation of workers.</li> </ul>	



Timescale	Monitoring / KPI
Construction	Approved Traffic and Transportation Management Plan Training logs/ attendance sheets Signage in place



Timescale	Monitoring / KPI

Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
		Only company employees are to be transported in the company vehicle			
Minimise road hazards, congestion and damage to road infrastructure (unsurfaced roads/construction areas)	Equipment delivery	<ul> <li>Ensure drivers are trained to drive heavy goods vehicles (HGVs) on unsurfaced roads (where necessary).</li> <li>Check that all drivers have the necessary license for their vehicles.</li> <li>Ensure all vehicles have up-to-date maintenance records.</li> <li>Minimise transport of workers along the unsurfaced road sections and use pool vehicles where possible.</li> <li>Notify the Project Company at least 10 days in advance of start of PV Panel deliveries and abnormal loads so that they may inform the local communities about the delivery of any wide/heavy loads and how it could impact their road use.</li> </ul>	EPC Contractor (subcontractors)	Construction	Traffic and Transport (Logistics) CMP Training logs/ attendance sheets Maintenance records Meeting minutes/ attendance sheets/ (SE log – maintained by Project Company)
Minimise traffic-related accidents (surfaced and unsurfaced roads)	Equipment delivery	<ul> <li>Demarcate delivery roads and access tracks across the Site and ensure all workers stick to the demarcated area.</li> <li>Maximum of 40km/h on the section of national roads used to access the Site.</li> <li>Minimise pedestrian interaction with construction vehicles.</li> <li>All drivers are to undergo a driver's induction training and sign the driver's code of conduct.</li> <li>Employ safe traffic control measures, including road signs and flag persons, to warn of dangerous conditions along the unsurfaced road to the work fronts.</li> <li>Report all traffic accidents and statistics in weekly EHS reporting (all contractors)</li> <li>All drivers carrying personnel or material along unsurfaced roads must undertake off-road driver training.</li> <li>Provide awareness training to receptors (local residents).</li> <li>No night-time driving along unsurfaced roads.</li> <li>Establish and implement standards addressing the following:         <ul> <li>Training and accreditation for project drivers, including contractors.</li> <li>Driver fitness standards, including mandatory rest periods and prohibition of drug/alcohol use.</li> <li>In-vehicle monitoring systems to monitor vehicle speed and location (Project vehicles and contractors).</li> <li>Project and contractor standards for vehicle safety and maintenance.</li> <li>Security response for vehicle incidents.</li> <li>Load stability standards.</li> </ul> </li> </ul>	EPC Contractor (subcontractors)	Construction	Training logs/ attendance sheets



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KP
Animise impact o soils (contamination)	Site/ROW clearance	<ul> <li>Develop a Topsoil Management and Site Reinstatement CMP that includes the following GIIP requirements and aligns with IFC EHS Guidelines: General: <ul> <li>Avoid total removal of vegetation of the whole Site where possible, e.g., around the edges of the Site and the substation site (as set out in the Biodiversity Management Plan)</li> <li>Refuelling of delivery vehicles is to be undertaken in Silistra.</li> <li>Refuelling ground to prevent seepage of any spillages to soil/groundwater.</li> <li>Drip trays must be used when refuelling and servicing vehicles or equipment not on the designated refuelling hardstanding surface.</li> <li>Oil interceptors and silt traps shall be implemented to manage and retain sediments on site for surface water runoff.</li> <li>Spill containment and clean-up kits will be available on-site, and clean-up from any spill shall be appropriately contained and disposed of at a bound landfill site.</li> <li>Preparation of guidelines and procedures for immediate clean-up actions following any oil, fuel or chemical spillages.</li> <li>Develop a site-specific Emergency Response Plan for soil clean-up and decontamination.</li> <li>Implement a training program to familiarize staff with emergency procedures and practices related to contamination events.</li> <li>Develop and implement a waste management plan (as part of the cESMS) to ensure that waste is disposed of currectly such that soil contamination is minimized.</li> <li>Fuel, oil, and used oil storage areas shall be contained in bunds of 110 per cent capacity of the storage containers will be regularly checked and maintained</li> <li>Construction vehicles/pieces of machinery and equipment shall be serviced regularly at off-site locations</li> <li>Ensure that all construction plant and equipment are maintained in a good state of repair with minimal leaks</li> <li>Rehabilitation and re-vegetation of cleared areas adjacent to the project development area. In addition, after completion of construction, all the temporary roads and embank</li></ul></li></ul>	EPC Contractor (subcontractors)	Construction	Environment, Pollution Prevention and Control CMP Site inspection records Construction reports
Minimise impact to soils (degradation)	Site/ROW clearance	<ul> <li>Existing excavated material from clearance of the site (undertaken prior to commencement of the project) will be handled and disposed of (if necessary) appropriately taking into account Bulgarian waste management and other relevant requirements and provisions of this ESMP.</li> <li>Demarcate specific tracks to site/ROW and track vehicles to ensure only demarcated routes are used.</li> <li>Confine traffic movement to designated routes/tarmac areas within the PV Site.</li> <li>Control access to areas within the Site that are not required for construction.</li> <li>Topsoil will be stored and used to rehabilitate affected construction areas. The topsoil stockpiles' height should not exceed 2m.</li> </ul>	EPC Contractor (subcontractors)	Construction phase	Site inspection records Construction reports



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
Implement sustainable site clearance and rehabilitation practices to avoid impact on natural habitats.	Site/ROW clearance	<ul> <li>Existing excavated material from clearance of the site (undertaken prior to commencement of the project) will be handled and disposed of (if necessary) appropriately taking into account Bulgarian waste management and other relevant requirements and provisions of this ESMP.</li> <li>Demarcate the PV plant construction zone and servitude for the TL corridor on a map and on the ground clearly using high visibility tape or other high visibility method, to avoid impacting on sensitive areas outside of the permitted construction area</li> <li>Implement relevant construction standards (e.g. 'Construction Code of Practice for the Sustainable Use of Soils on Construction Sites' – DEFRA, 20096F6F).</li> <li>Topsoil Management and Site Reinstatement MP will address topsoil removal following sustainable land-use practices:</li> <li>When stripping, stockpiling, or placing soil, do so in the driest condition possible and use tracked equipment to reduce compaction.</li> <li>Topsoil to be stripped to a thickness defined by depth below the surface and a distinct colour change.</li> <li>Clearly define topsoil and sub-soil stockpiles of different soil materials for reuse of topsoil.</li> <li>Keep soil storage periods as short as possible.</li> <li>Monitor soil restoration</li> <li>Immediately restore topsoil and vegetative cover using seeded restoration techniques for all disturbed areas (where work is not planned) in the PV Site</li> <li>Reuse materials on-site wherever possible</li> <li>No imported soils or aggregates</li> <li>Regular checks and surveys for AIS every three months</li> <li>Organic topsoil (superficial layers) will be used on-site and near the Site for revegetation activities.</li> </ul>	EPC Contractor (subcontractors)	Plan – pre-NTP Construction phase	Site inspection records Construction reports
Minimise secondary impacts on soils from vegetation removal and works.	Site ROW rehabilitation	<ul> <li>Rehabilitate the compacted area to support the return of the impacted area to the original state as quickly as possible following the completion of the works. This may require aeration of the topsoil, enrichment of the topsoil or reintroduction of selected species and shrubs. Do not rely on natural rehabilitation.</li> <li>Reflect natural gradient and relief when reinstating soils.</li> </ul>	EPC Contractor (subcontractors)	Construction phase	Rehabilitation plan
Ensure appropriate handling, storage, and disposal of solid and hazardous waste to minimize impacts to groundwater, land, and workers.	Site/ROW clearance	<ul> <li>Existing excavated material from clearance of the site (undertaken prior to commencement of the project) will be handled and disposed of (if necessary) appropriately taking into account Bulgarian waste management and other relevant requirements and provisions of this ESMP.</li> <li>Environment, Pollution Prevention and Control MP to include a Waste Management Plan (WMP) to include the following GIIP requirements and to meet WBG EHS General Guidelines:</li> <li>Identity and characterise the source of all waste streams (hazardous and non-hazardous) and the proposed final disposal option (Site waste management)</li> <li>Define and demarcate dedicated temporary waste collection site at the worksite</li> <li>EPC contractor is required to conduct a duty of care audit for proposed general waste, construction waste, hazardous waste and recycling facilities in the municipality and region to confirm compliance with GIIP for acceptance by the Project Company.</li> <li>Perform due diligence and identify temporary waste storage and collection points (hazardous and non-hazardous) at the Site for coordinated onward transportation and disposal at a licenced facility.</li> <li>EPC contractor to ensure all subcontractors use approved waste disposal routes only following the outcomes of the waste due diligence audits.</li> <li>Offices required to have adequate waste handling and disposal facilities.</li> </ul>	EPC Contractor (subcontractors)	Plan – pre-NTP Construction phase	Environment, Pollution Prevention and Control CMP Site inspection records Construction reports Waste Management CMP



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
		<ul> <li>Arrangements for collecting non-hazardous and hazardous wastes must include on-site waste bin equipment provisions.</li> <li>Waste bins to be segregated according to the waste stream, e.g., organic, hazardous, paper/cardboard, plastic, and metallic waste. Their disposal and recycling must be made in close collaboration with the local government authorities (i.e., municipalities) and licensed waste recycling companies.</li> <li>Provision of chemical 'mini toilets for workers at the base camp must be in the ratio of 1:7 and maximum of 1:15 (foilet to workers), respectively, to maintain hygienic and clean surroundings at the workfront.</li> <li>Segregation, reuse and, where feasible, recycling of wastes by registered operator; construction contractor must follow the 3R (reduce, reuse, recycle) policy to manage the solid wastes</li> <li>Site all temporary onsite waste storage areas at least 250m from the L-S Protected area</li> <li>Identify waste reuse and recycling disposal routes to process waste streams (following Bulgarian requirements) and set up agreements</li> <li>Identify onstruction waste landfill</li> <li>Obtain copies of licenses and authority of final disposal locations</li> <li>Identify and contract authorized transportation company to take waste to the disposal facility (in particular hazardous waste)</li> <li>Waste storage/collection areas shall be fenced, with an impermeable base and equipped with relevant signage (e.g., urban waste collection area)</li> <li>Segregate waste material on-site for disposal void dispersion of light materials by wind or filing of skip with rain) and waterproofing to avoid sol contamination from leachate.</li> <li>Hazardous waste sturies to be sitely covered (to avoid dispersion of light materials by wind or filing of skip with rain) and waterproofing to avoid sol contamination form leachate.</li> <li>Hazardous substations, etc.) as defined in tanks or drums in bunded areas that can hold the larger of 110 percen</li></ul>			
Prevent leaks, spills,	Site establishment &	generation and potential impact during the construction phase.           EPC contractor to develop a spills response protocol (as part of the Environment, Pollution Prevention)	EPC Contractor	Plan – pre-NTP	Spills Response
and environmental incidents.	Construction	<ul> <li>Maintain an inventory of hazardous materials and specific procedures/ controls</li> </ul>	(subcontractor)	Construction phase	Protocol (Environment, Pollution



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
		<ul> <li>Maintain available copies on Site of material safety data sheets (MSDS) for all hazardous substances used during the Project:</li> <li>Establish hazardous materials storage areas that are located away from existing sensitive receptors and are secure from theft or vandalism, well-ventilated, and have suitable emergency response equipment (fire extinguisher, eye wash etc.) and PPE.</li> <li>Ensure spill kits are located and first response equipment at all work fronts.</li> <li>Ensure no hazardous materials are stored in large quantities at the work fronts or the central materials store and laydown area.</li> </ul>			Prevention and Control MP) Site inspection records Construction reports
Minimise impact on habitats – General	Construction stage	<ul> <li>Develop Environment, Pollution Prevention and Control MP aligned with the requirements of Project Company Biodiversity management Plan (002) plus the following GIIP:</li> <li>Before the start of construction and during all stages of the construction, a team of environmental biodiversity experts must undertake pre-construction survey and be present to the territories and, if necessary, remove amphibians or repliles from the areas intended for construction, in accordance with the construction scheme. Thus, the probability of mortality of individuals will be significantly reduced.</li> <li>Use existing access roads or upgrade existing roads wherever possible before considering new access road construction</li> <li>Restrict vehicles to the use of only authorized access roads</li> <li>Minimise use of frenches or other steep-walled excavations</li> <li>Backfill open excavations as soon as possible after construction activity.</li> <li>Ensure signage, inclusion in worker's code of conduct and training to prevent construction workers from poaching and to promote protection of wildlife.</li> <li>Fence localised worksites before the start of construction works to avoid encroachment by mammals.</li> <li>For OHTL works, do not leave trenches open overnight unless they are fenced.</li> <li>Prohibit poaching (focusing on CITES species) and interactions with fauna and flora in the worker code of conduct.</li> <li>Worker/contractor training/awareness, supervision regarding impacts to animals and species protection, minimise impact to neighbouring territories - such as trampling, passage of heavy equipment, storage of materials and this limit disturbance, reduce affected areas to limit potential deaths of individuals, i.e. the impact on species will be limited to the areas of construction, and will not cause the same effects or larger areas.</li> <li>Where possible, the storage of materials should be carried out only in areas around the airport rumay - this will lead to l</li></ul>		Plan – pre-NTP Construction phase	Pollution Prevention and Control CMP Site inspection records Construction reports



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
Raise worker awareness of the biodiversity risks	Construction works (PV/OHTL)	<ul> <li>Prohibit the use of herbicides to limit the spread of grass, tree and shrub vegetation in PP areas - this will limit possible negative effects on insects, amphibians and entrants, such as mortality or possible diseases.</li> <li>Compile a suitable Invasive Alien Plant (IAP) species control plan and programme to manage IAP's within the control of the development</li> <li>Implement IAP species surveillance and control plan within areas in the projects control, focusing particularly on areas of natural habitat</li> <li>Monitor IAPs to inform further management intervention.</li> <li>Prohibit the use of pest control measures (rodenticides) to limit the population of rodents - it will cause unwanted mortality among rodents, but also re-poisoning of predatory mammals or birds.</li> <li>In the areas where no PV installations are constructed, but are part of the plant's service areas, grass and shrub vegetation disturbance during construction.</li> <li>Use only demarcated area for laydown and access (construction and operation)</li> <li>Prepare decommissioning management plan (including management of biodiversity impacts) prior to decommissioning</li> <li>Add the following to the Project specific Worker Code of Conduct - "Workers are prohibited from:         <ul> <li>Removing flora from the work area</li> <li>Hunting any species</li> <li>Interaction with large mammals'</li> </ul> </li> </ul>	EPC Contractor (subcontractors)	Construction phase	Site inspection records Construction reports
Manage potential unexpected discovery of archaeological remains/ artefacts Safeguard the wellbeing	Substation, PV and OHTL foundation work	<ul> <li>Establish a chance-find procedure (including national and lender requirements and following GIIP) for the construction phase or any phase that requires excavation work in accordance with Project Company Chance Finds Plan (011)</li> <li>Train workers on chance finds procedure during induction and all excavation works (via toolbox talks).</li> <li>Maintain a chance finds log.</li> <li>Notify the National Institute of Archaeology under the Academy of Sciences of Bulgaria of any finds.</li> <li>Carry out ongoing discussions with local community members about the cultural significance of the Site as part of broader public consultation exercises.</li> <li>Implement ongoing livelihood restoration activities (if not already completed before</li> </ul>	EPC Contractor (subcontractors)	Construction phase	Contract with IOA Chance Finds Procedure Toolbox talk logs Chance finds the register (if necessary) Close out report
and improve the living standards of those whose livelihoods are involuntarily displaced.		construction) as per the LRF (013). • Prepare LRF close out report		phase	
Protect worker health and safety.	All construction and operations activities	<ul> <li>Require EPC Contractor to be certified to ISO 45001 (or equivalent)</li> <li>All contractors and subcontractors to implement Project OHS requirements</li> <li>Incorporate measures to reduce the risk of hazards impacting the project as per national codes and norms and international standard specifications</li> </ul>	EPC Contractor (subcontractors)	Construction phase	Occupational Health and Safety Management Plan Risk assessment



Objective	Project Activity	Action	Responsibility	
		Develop an Emergency Preparedness and Response Plan (EPR) which includes     responsibilities and actions in case of emergency situations and considers community as well     as worker and asset protection/impact limitation (see below).		
		Establish Occupational Health and Safety (OHS) Management Plan in accordance with Employer OHS (009) including <i>inter alia:</i>		
		<ul> <li>Management measures for occupational dust, occupational noise, falls from height, electrocution risks etc.</li> </ul>		
		<ul> <li>Require EPC contractor to implement communication systems to enable communications from any part of the site.</li> </ul>		
		<ul> <li>Specify safety signage throughout the Project site, following GIIP specifications and codes of practice.</li> </ul>		
		<ul> <li>Preventative maintenance to ensure the robust connection of the lightning protection (earthing) system</li> </ul>		
		Site risk assessment for all tasks to be undertaken on the Site.		
		Recommended techniques to prevent the electrocution hazards include use of signs, barriers, to prevent shock		
		<ul> <li>Provision of automatic fire detection systems linked to automatic shutdown systems to allow fires to be dealt with in the shortest possible time by disconnection from the power supply systems. This includes substations</li> </ul>		
		<ul> <li>After any damage has been assessed and documented in case of storm damage / wind damage etc, the utility companies will be notified. Lastly, if safe to do so, damaged areas will be protected from further damage</li> </ul>		
		<ul> <li>Communicate hazards and risks to all workers during setting-to-work briefings.</li> </ul>		
		<ul> <li>Mandatory PPE, including steel-toe capped boots, overalls, hard hat, hi-vis vest, safety glasses, hard hat AND ear protection, gloves, and dust masks for specific tasks (e.g., welding).</li> </ul>		
		Worker induction programme.		
		Worker Code of Conduct.		
		<ul> <li>Training to all workers ongoing throughout construction and including toolbox talks and regular refresher training where needed.</li> </ul>		
		<ul> <li>Drills (including OHS, spills, and emergency drills) should be undertaken regularly</li> </ul>		
		OHS inspection and audits and ensure there is a corrective action process.		
		<ul> <li>Establish an accident and incident reporting procedure for accidents, diseases, incidents, near misses, positive interventions etc.</li> </ul>		
		<ul> <li>Provide incentives for reporting near misses and positive interventions and observations.</li> <li>EPC Contractor and subcontractors to hire HSE Managers and Officers (1:50 for construction</li> </ul>		
		workforce) Develop a project specific Emergency Preparedness and Response Plan (EPRP)		
		<ul> <li>Ensure medical preparedness includes permanent on-site paramedic, first aid facilities and</li> </ul>		
		first aiders (ratio of 1:50 first aiders/workers)		
		Provide worker shelter, toilets and provisions (including drinking water) at work fronts across		
		the site (not just at the main site camp).		
		EPC contractor to employ at least one HSE Manager and an EPC Contractor HSE Officer for		
		every 50 workers.		
		<ul> <li>Subcontractors with more than 20 workers shall deploy a dedicated HSE Officer and an additional HSE Officer for each additional 50 workers deployed onsite.</li> </ul>		



Timescale	Monitoring / KPI
	Worker Code of
	Conduct
	Worker Induction
	Program
	Training logs/
	attendance sheets
	Audit reports
	Incident reports

Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
		<ul> <li>Implement mitigation measures in relation to lead in the soil (including an assessment of required personal protective equipment (PPE) for workers and training in the risk of lead contamination).</li> </ul>			
Protect community health and safety.	All works	<ul> <li>Containination).</li> <li>Incorporate community safety requirements into the project design.</li> <li>Develop an Emergency Preparedness and Response Plan (EPR) which includes responsibilities and actions in case of emergency situations and considers community as well as worker and asset protection/impact limitation (see below).</li> <li>Where necessary include fencing, safety signage (in locally used languages) and other relevant features to deter community members from entering the Project site.</li> <li>Installation of anti-climbing devices to avoid accidental or intentional attempts to access the site</li> <li>Prapare a disclosure plan for community members, to inform as to the start of construction works and timing and Project impacts along the transportation route.</li> <li>Undertake a stakeholder engagement campaign to inform community members of the possible risks and impacts of the construction of the Project (refer to SEP), including traffic, grievance mechanism, worker conduct, GBVH risks</li> <li>Disclose community grievance mechanism to local communities and houses surrounding worker accommodation.</li> <li>Undertake outlural awareness training for migrant workers, should it be deemed necessary.</li> <li>Undertake OHS and emergency drills throughout the construction and operations phases.</li> <li>House workers from outside the project area or municipality in accommodation away from the immediate directly affected communities and hosignation contracting communicable diseases.</li> <li>Develop a Worker Code of Conduct to be read and signed by all workers on the contract during the induction process.</li> <li>Include in the worker code of conduct, requirements for addressing potential gender-based violence and harassment (GBVH) risks on the Project Company</li> <li>Ensure the security and code of conduct equirements for warm geacing such as a starting on using force, security guard code of conduct eters and hazards, e.g., from site vehic</li></ul>	EPC Contractor (subcontractors)	Construction phase	Worker Code of Conduct Vetting of security guards Training logs/ attendance sheets Signs in place Meeting minutes/ attendance sheets Number of grievances received



Objective	Project Activity	Action	Responsibility
Labour wellbeing	All works	<ul> <li>Require contractor (via EPC Contract) to conform to Company Human Resources (HR) Policy, Code of Ethics, Policy Against Bribery and Corruption, Recruiting Policy, Supply Chain (Procurement) Policy, and Communication Policy.</li> <li>EPC Contractor and Tier 2/3 sub-contractors to demonstrate functioning HR Policies to meet with Lender requirements, ILO core conventions and Bulgarian law in contractor contracts.</li> <li>Define manpower requirements for the construction and operation phases for the EPC contractor and subcontractors, and the O&amp;M contractor including the number of E&amp;S personnel and their qualifications.</li> <li>Perform a supply chain due diligence or obtain third-party supply chain due diligence reports to verity potential suppliers' credentials regarding the occurrence of forced labour, ohild labour or occupational health and safety failures. The supply chain will be mapped (to the polysilicon level) and verified by an independent consultant for point of origin.</li> <li>Suppliers shall have a system to identify and manage risks associated with child labor, forced labor, occupational health and safety and pollution prevention for their activities and their core supply chain.</li> <li>Provide workers with a safe and healthy work environment Develop and implement a workforce MP during the pre-construction and construction phase which will Include measures required by IFC PS 2 for the economy, employment and livelihood component:         <ul> <li>Collaborate with to State Employment Offices</li> <li>Collaborate with to Cal institutions (municipality and administrative units)</li> <li>Put in place transparent and fair recruitment procedures</li> <li>Strictly follow the Bulgarian Code of Work requirements</li> <li>Adopt and maintain human resources policies and mongeies and procedures wilt be understandable and accessible to workers, and in the main language(s) spoken by the workforze. HR policies and manageme</li></ul></li></ul>	EPC Contractor (subcontractors)



Timescale	Monitoring / KPI
Timescale         Construction         phase	Monitoring / KPI Worker contracts Training logs/ attendance sheets Grievance mechanism Number of grievances received Labour statistics

Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
		<ul> <li>Ensure that both migrant and local workers are engaged on substantially equivalent terms and conditions.</li> <li>Provide an HR onboarding for all workers and explain the contract terms as per EBRD PR2.</li> <li>Establish a Code of Conduct – Workers, including Workforce Grievance Mechanism (WGM) and ensure confidentially and anonymity where required. The WGM shall be open to employee and non-employee workers. Ensure that all workers directly and indirectly employed are informed on how to submit grievances.</li> <li>Ensure appropriate welfare provisions (water, shelter, sanitary facilities, food) at the Site.</li> <li>Ensure all workers receive the appropriate training as per the training need analysis and matrix developed under the ESMS (note specific requirements for working within a substation or on live equipment).</li> <li>Undertake daily toolbox talks at all work fronts.</li> <li>See also requirements under Emergency Preparedness and Response.</li> <li>Provide all workers with notification of the duration of their contract at the start of work.</li> <li>Develop labour reporting statistics for all workers, including identifying labour statistics per worker category (local, regional, international) and the split between male and female</li> </ul>			
Emergency preparedness - general	All works	workers.           Develop EPRP in accordance with Project Company EPRP (010) and with the following minimum requirements:           Identification of the emergency scenarios.           Specific emergency response for each situation relevant to the Project.           Emergency contacts and communication systems/protocols (including communication with affected communities when necessary).           Outline of medical facilities and services required on-site in a Medical Services Procedure and a Casualty Evacuation Procedure.           Outcomes of assessment of local emergency services capabilities and identify gaps that may need to be filled with site-based emergency response capabilities in the form of a "capacity assessment" appended to the EPRP (for approval).           Procedures for interaction with government authorities (energency, health, environmental authorities), including names and contact details.           Site plan indicating requirements for permanently stationed emergency equipment and facilities (e.g., first aid stations, firefighting equipment, spill response equipment and personal protective equipment (PPE) for the emergency response teams).           Minimum requirements for trained medical professionals on-site, including first aid stations           Develop protocols for the use of emergency equipment and facilities.           Ensure clear identification of evacuation routes and Assembly Points (AP) for each work location highlighted on a site plan.           Identification of training requirements for all employees and third-party providers.           Emergency Drills to include government/municipality emergency, health, environmental	EPC Contractor (subcontractors)	Construction phase	EPRP Site medical services in place Drill reports



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
Emergency preparedness – climate risks/natural hazards	All works	<ul> <li>Undertake continuous monitoring of weather events to enable an early warning of any high winds, storms, dust storms, or extreme precipitation to enable workers to get to shelter.</li> <li>Establish worker emergency shelter at the Site and protocols for extreme heat stroke cases.</li> <li>During periods of high wind (15km/h+), dust-generating activities will not be permitted.</li> <li>Provide all workers with dust masks in the event of a localized dust event.</li> <li>Ensure sufficient supply of potable water at the work fronts (&gt;3.5 L per worker per day).</li> <li>Ensure sufficient shelter/shade during summer months.</li> <li>Provide extra rest periods for workers when temperatures exceed 35°C.</li> <li>Change the shift hours in line with the cooler hours.</li> <li>Ensure workers are not penalised for taking extra rest breaks during periods of extreme heat.</li> <li>Erect temporary shade at all work fronts for all workers.</li> </ul>	EPC Contractor (subcontractors)	Construction phase	EPRP Worker emergency shelters
Emergency preparedness – Spill response		<ul> <li>Prepare Spill Response Plan (may be part of the EPRP) and include appropriate training and requirements for spill prevention and cleanup equipment including:         <ul> <li>Use barriers (e.g., drip trays) to minimise impacts from spills or other potential leaks.</li> <li>All chemicals, fuels, and oils are stored at the construction camps and laydown area to be in designated areas in a secure and bunded facility.</li> <li>No herbicide uses.</li> <li>Do not refuel except at a dedicated refuelling area.</li> <li>All concrete washout to take place at designated concrete washout area only.</li> <li>All cement trucks must return to the batching facility or a dedicated wash-out facility to perform cement washout.</li> </ul> </li> <li>Works with hazardous liquids must be performed over an area of hardstanding to avoid seepage to groundwater in the event of a spill.</li> </ul>	EPC Contractor (subcontractors)	Construction phase	EPRP – Spill response procedure
Security	Site/ROW/Accommodation	<ul> <li>Perform a Project Security Risk Assessment (SRA) Develop Security Management Plan in accordance with Project Company Security Management Plan (008) including the following:         <ul> <li>Security arrangements roles and responsibilities</li> <li>Site access (project personnel identification, visitors identification vehicles identification etc.)</li> <li>Project security approach and systems, e.g., security barriers, fences, gates, locks, fortifying facilities, and means of access control</li> <li>Accommodation security</li> <li>Security-related communication arrangements</li> <li>Interface with host government agencies and public security forces</li> <li>Provisions to ensure compliance with regulations and good industry practice regarding:                 <ul></ul></li></ul></li></ul>	EPC Contractor/ Security contractor	Construction phase	Project SRA EPC Security Management Plan Security Code of Conduct Training logs/ attendance sheets



Objective	Project Activity	Action	Responsibility	Timescale	Monitoring / KPI
Safeguarding community members and workers against communicable diseases (including COVID-19)	All works	<ul> <li>EPRP include a procedure for managing communicable diseases, including but not limited to the following requirements:</li> <li>Measures to minimize the risk of contamination of site personnel from outside the project site (and construction camp), particularly local workers not residing in the accommodation camp.</li> <li>Measure to minimize the risk of transmission to the local community from site personnel.</li> <li>Emergency procedure in case of positive cases or outbreak (for affected personnel and potentially affected personnel).</li> <li>Procedures for managing the risk of transmission to the local community (especially the management of mixing workers from the community with those housed in workers' accommodation).</li> <li>Provide PPE to reduce the risk of spreading COVID-19, such as masks and hand sanitizer (as needed).</li> </ul>	EPC Contractor/ Security contractor	Construction phase	EPRP



Objective	Activity	Action	Responsibility	Timescales	Evidence
Compliance with national requirements	O&M works	Obtain operational environmental approval prior to the start of operation	Project Company	Pre-operation	Operations Permit
mplement ESMS in line with SO14001 (environment) and SO45001 (health and safety).	O&M works	Ensure ESMS includes relevant requirements for E&S and H&S-related training, communication, monitoring, reporting, accident incident reporting, auditing, management review, and continuous improvement.	Project Company	Annually	Annual ESMS audit
Dperational management blanning	O&M works	<ul> <li>Implement operational ESMS to implement operational ESHS management requirements of the Project.</li> <li>Develop Project O-ESMP.</li> <li>Ensure grievance mechanism is disclosed in project areas</li> <li>Maintain regular stakeholder engagement, at least annually.</li> <li>All maintenance work to have a specific risk assessment addressing waste, climate risks H&amp;S, hazardous material management, emergency preparedness and response, and traffic risks)</li> <li>Implement waste management practices in line with O-ESMP and ESMS</li> <li>Ensure correct PPE at all times</li> </ul>	Project Company O&M contractor	Annually	Project O-ESMP Annual reporting GM Log SE Log Risk Assessments (maintenance works) Waste documentation
Occupational Health and Safety	O&M works	<ul> <li>Establish Occupational Health and Safety (OHS) Management Plan requiring:</li> <li>Management measures for dust, occupational noise, falls from height, electrocution risks etc.</li> <li>Define workplace protocols for maintenance activities.</li> <li>Employ EHS officer to oversee Project Company obligations (may be based off site).</li> <li>Update the emergency preparedness policy and emergency preparedness and response plan for the operations phase.</li> <li>Disclose updated emergency preparedness and response plan to local emergency services and other relevant external stakeholders (e.g., nearby communities).</li> <li>Perform continuous monitoring of storm events: e.g., site lock-down securing all equipment and materials.</li> <li>Site risk assessment for all tasks to be undertaken on the Site.</li> <li>Communicate hazards and risks to all workers during setting-to-work briefings.</li> <li>Mandatory PPE, including steel-toe capped boots, overalls, hard hat, hi-vis vest, safety glasses, hard hat AND ear protection, gloves, and dust masks for specific tasks (e.g., welding).</li> <li>Worker Induction Program.</li> <li>Worker Code of Conduct.</li> <li>Training to all workers.</li> <li>OHS inspection and audits and ensure there is a corrective action process.</li> <li>Reporting occupational accidents, diseases, and incidents.</li> </ul>	O&M Contractor Project Company	Construction phase	Occupational Health and Safety Plan Risk assessment Worker Code of Conduct Worker Induction Program Training logs/ attendance sheets Audit reports Incident reports
Protect community health and safety	O&M works	<ul> <li>Maintain Worker Code of Conduct to be read and signed by all workers on the contract during the induction process.</li> <li>Security personnel to not be armed unless prior approval from Project Company</li> <li>Ensure the security plan includes requirements for vetting security guards, training on using force, security guard code of conduct etc.</li> </ul>	O&M Contractor Project Company	Operations phase	Code of Conduct Security Plan CLO in place Community Grievance Mechanism



Objective	Activity	Action	Responsibility	Timescales	Evidence
		<ul> <li>Employ local security guards and female guards where possible.</li> <li>Maintain CLO and Community Grievance Mechanism (as developed during construction phase)</li> <li>Provide targeted training (including life skills such as leadership and decision-making) and awareness-raising to vulnerable workers such as women.</li> </ul>			
Labour wellbeing	O&M works	<ul> <li>Require contractor (O&amp;M contractor) to conform to Company Human Resources (HR) Policy, Code of Ethics, Policy Against Bribery and Corruption, Recruiting Policy, Supply Chain (Procurement) Policy, and Communication Policy.</li> <li>Contractors to demonstrate functioning HR policies to meet with Lender requirements, ILO core conventions and Uzbek law in contractor contracts.</li> <li>Ensure all workers on the Project have a written project contract that would clearly specify their terms of employment, consistent with the local labour law and the IFC PS2. The terms of employment should be largely similar for all categories of the Project workers</li> <li>Implement Worker code of conduct</li> <li>Establish a Workforce Grievance Mechanism (WGM)and ensure confidentially and anonymity where required.</li> <li>Ensure appropriate welfare provisions (water, shelter, sanitary facilities, food) at the Site.</li> <li>Ensure all workers receive the appropriate training as per the training need analysis and matrix developed under the ESMS, including training on the WGM (note specific requirements for working within a substation or on live equipment).</li> <li>Develop labour reporting statistics for all workers, including identifying labour statistics per worker category</li> </ul>		Operations phase	HR Policy and associated documentation Labour contracts with all employees Workers Grievance Mechanism Labour statistics maintained Training records
Emergency preparedness - general	O&M works	<ul> <li>Review and update EPRP for operation phase</li> <li>Undertake continuous monitoring of weather events to enable an early warning of any high winds, storms, dust storms, or extreme precipitation to enable workers to get to shelter</li> </ul>	Project Company O&M Contractor	Operations phase - ongoing	Monthly O&M reporting
Security		Updated Security Management Plan	Project Company O&M Contractor	Operations phase - ongoing	Monthly O&M reporting
Ensure rehabilitation of disturbed areas is successful.	O&M works	<ul> <li>Implement the rehabilitation requirements of the biodiversity management plan requirement for habitat restoration for no-net loss.</li> <li>Monitor outputs</li> </ul>	Project Company	Operations phase – 5 years or as necessary	Monthly O&M reporting
Ensure livelihoods are not adversely impacted in the long- term	O&M works	<ul> <li>Monitor impacted households for at least one years to ensure they have at least returned to their previous level of livelihood, if not improved their livelihood.</li> <li>Monitor the implementation of livelihood restoration activities.</li> </ul>	Project Company	Operations phase	Monthly O&M reporting Annual M&E report (livelihoods)
Biodiversity	O&M works	<ul> <li>Keep all movements to main asphalt roads wherever practicable</li> <li>Reduce maintenance work for vegetation around and beneath the panels (often used as a refuge by reptiles, amphibians, invertebrates)</li> </ul>	O&M Contractor	Operations phase	Monthly O&M reporting
Stormwater/flood management	O&M works	<ul> <li>A stormwater management plan shall be developed, and an internal drainage system shall be designed as part of the project design based on hydrological and flood studies to reduce the risk and mitigate the impact of potential floods.</li> </ul>	O&M Contractor	Operations phase	Storm water management plan



Objective	Activity	Action	Responsibility	Timescales	Evidence
Waste management plan	O&M works	<ul> <li>The O&amp;M contractor will develop a Waste Management Plan in compliance with Bulgarian legislation and GIIP that will also include measures to ensure:</li> <li>Food/organic waste and recyclables, such as paper, plastic, scrap metal waste, etc. must be appropriately segregated and stored in designated waste bins/containers and periodically deposited in approved disposal areas or sold to licensed recycling companies.</li> <li>Ensure electrical waste (consumables, spare parts and obsolete equipment) and broken solar panels are adequately packed and sent back to the manufacturer or reused in other forms and locations</li> <li>Generated waste quantities - must be recorded in a separate/dedicated register according to the type of waste and the quantities generated. During the waste transfer process, a waste transfer format (Waste Transfer Format) shall be filled out to determine the respective quantities according to the type of waste leaving the site and the name of the company/entity that will handle these wastes. The Developer shall regularly keep waste data during the operation activity and present/report to the government authorities if required.</li> <li>Conduct continuous training and education awareness of all project employees regarding waste management practices to avoid and reduce the risks of waste generation and potential impact during the operation phase.</li> </ul>	O&M Contractor	Operations phase	Waste management plan

