Rengy Sarata solar project non-technical summary

1 Introduction

This document provides a non-technical overview of the project of Shargorod 2 Solar power plant construction in Vinnitsa Oblast of Ukraine proposed by private company Rengy Sarata.
It also presents a summary of potential environmental and social impacts and other environmental and social issues relevant to the proposed activities. Appropriate measures to mitigate key adverse environmental and social effects that may arise during project construction and operation are also provided in *Table 1* at the end of this document.

This NonTechnical Summary (NTS) document will be placed in the locations shown below for public review and comment. Anyone can provide comments and recommendations on the environmental, social and other aspects of the project.

Environmental and social documents will be available for review during normal business hours at the following locations:

- *Rengy Sarata company offices*
  Address: Chervonoarmiyska Str.72A, 8th floor, Office 177, Kiev, 03680, UKRAINE
  Phone: +38 044 585 9150
- *Shargorod City Council Hall*
  Address: 13, Poshtova Str, Shargorod , Shargorod district, Vinnitsa Oblast Phone: +380 4344 2 13 69

For further information on this project, or to provide comments on the project or the environmental and social documentation, please contact:

Name	Contact information
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2 Description of the Proposed Development

The project developer Rengy Sarata Limited Liability Company was established in 2010. Main business focus of the company is the development of solar energy projects in central/southern Ukraine, including the Shargorod 2 solar power plant.

The project is located at a distance of approximately 3 km from Shargorod city of Shargorod district in Vinnitsa Oblast. *Figure 1.1* shows the location of the site for the solar plant.

The project will install 36,740 solar photovoltaic (PV) modules totalling installed peak capacity of 9.5 megawatt, which will provide an annual gross electricity generation of approximately 10.976 million kilowatt-hours.

Electricity generated at the solar plant will be connected to the 110 kV distribution grid via a 110/35/10 kV substation and two 10 kV 3,522m long undeground transmission cable lines, and will be sold to the grid at the feed-in tariff under the "Green Tariff Law".

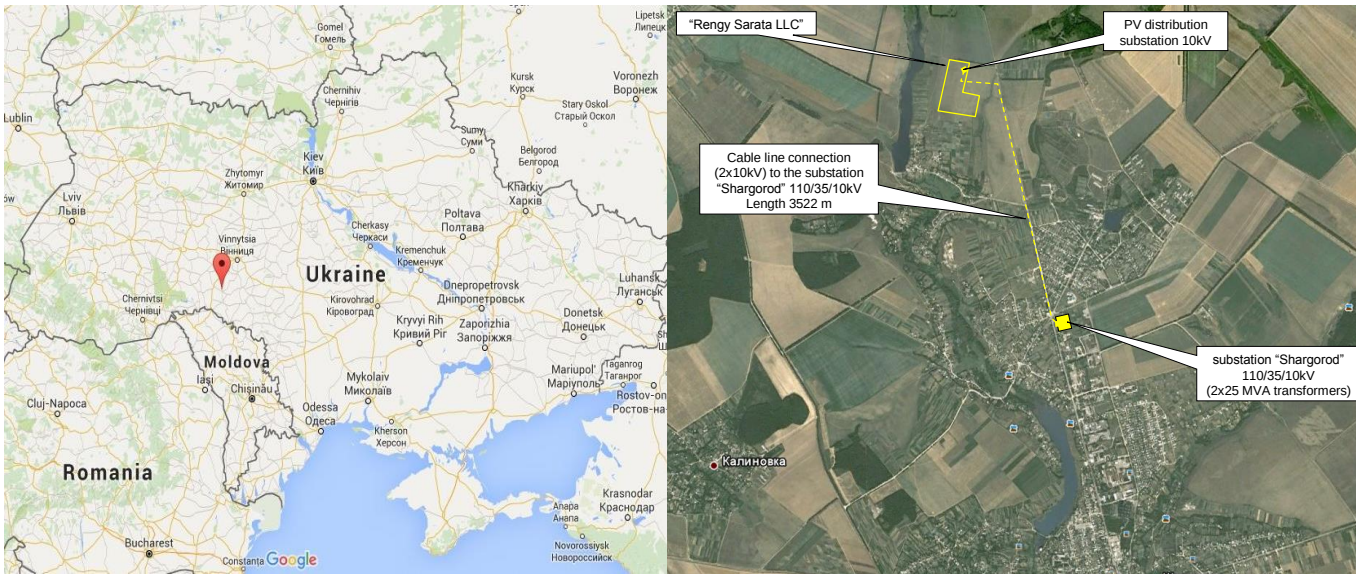
The solar power plant will be operated on an area of 15.3741 hectares that is subleased for the construction of a solar power plant by Rengy Sarata LLC. The net construction area is 5.8091 hectares.

By using the renewable solar power, the project will have significant environmental benefits over other types of energy generation, such as those utilising fossils fuels (gas, coal) or nuclear. It will contribute to the reduction of emissions of greenhouse gases (expected annual emission reductions are 10 thousand tons of CO_2), as well as create new jobs and improve security of energy supply in the area.

Figure 1: Location of the project site

General map view

Close-in sattelite image



3 Environmental, Health, Safety and Social Review

3.1 Project studies and documents

Solar energy power plants can be considered as having perhaps the least impact on the environment and the biodiversity of the surroundings.However, to assess and manage their impacts, several environmental documents have been prepared, as explained below.

The project preparation included assessment of the environmental conditions of the site, surrounding area, and environmental and social impacts. These have been summarised as a separate section in the project design documentation.

As part of the environmental and social due diligence, an Environmental and Social Action Plan (ESAP) was developed, which identifed mitigation measures to minimise, reduce, eliminate or control potential adverse impacts of the Project. Key mitigation measures are summarised in *Table 1* further below.

The Stakeholder Engagement Plant (SEP) was developed to describe how Rengy Sarata will communicate with people and institutions who may be affected by, or interested in, the Project. The company will assign a social liaison function to one of its staff, who will keep an open dialogue with stakeholder groups and local residents. At any time before and during construction and operation, any

stakeholder can raise concerns, provide comments and feedback about the Project. All such comments or grievances will be accepted, processed and answered by Rengy Sarata in a timely manner.

3.2 Sensitive locations

The project is situated in an area of low environmental sensitivity.

There are no protected areas in the immediate vicinity of the project. Having a maximum of 2m height above the ground the solar modules are not immediately visible from the nearest villages. The nearest residential properties of Shargorod town are located at approximately 250m from the project site. The operating plant will not generate any noise or flickering, which could disturb the residents of the nearby villages.

3.3 Project impacts and their mitigation

An evaluation of potential environmental and social impacts determined that, in addition to its benefits, the project could have some negative impacts on the environment and people, if not managed carefully. Therefore, Rengy Sarata will implement certain actions (called "mitigation measures") to prevent, reduce, or mitigate negative impacts of this project. A summary of key impacts and mitigation measures that have been identified, is provided in *Table 1* below.

Table 1 Overview of Key Potential Project Impacts and Their Mitigation

No	Issue	Potential impact	Mitigation measures
1	General construction impacts	Impacts during construction of the main (solar modules and inverter stations) and associated (transmission line) project facilities, such as land excavation, dust, noise, air emissions from vehicles involved, etc.	- Prepare and implement construction management plan to reduce and mitigate general construction impacts, including noise, air emissions, waste generation and disposal, erosion. - Ensure project contractors adhere to relevant enviornmental and social rquirements. - Continuously monitor impacts to comply with appropriate national environmental standards and EBRD requirements. - After construction, revegetate the site with native grass or shrubs where applicable and maintain vegetative cover throughout operations.
2	Transmission line	Associated two 10kV 3522m long transmission cable lines will be crossing undeground the village road leading to the local substaion.	- Ensure appropriate design and routing of the transmission lines to avoid restriction of vehicle traffic; - Comply with relevant sanitary and environmental requirements and norms.
3	Plant decommissioning	Waste generation and disposal during decommissioining of the plant at the end of 25-year life cycle.	- Ensure recycling and appropriate disposal of PV modules at the end of their lifetime in line with best environmental practice; - Become a member of international PV recycling network if appropriate.