

Rengy Tomashpil solar project non-technical summary

1 Introduction

This document provides a non-technical overview of the project of Gnatkov Solar power plant construction in Vinnitsa Oblast of Ukraine proposed by private company Rengy Tomashpil.

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 Tomashpil company offices*
Address: 14A, Voinov Internatsionalistov str, 2nd floor, Vinnytsa, Phone: +380 432 508 380
- *Gnatkov Village Council Hall*
Address: 5, Lenina Str, Gnatkiiv village, Tomashpil district, Phone: +380 4348 4 97 45
- *Tomashpil District Administration*
Address: 8, Leninskogo Komsomolu Sqr, Tomashpil, Vinnitsa Oblast, Phone:+380 4348 2 14 63

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 Tomashpil Limited Liability Company was established in 2011. Main business focus of the company is the development of solar energy projects in central/southern Ukraine, including the Gnatkov solar power plant.

The project is located at a distance of approximately 1km from Gnatkov village of Tomashpil district in Vinnitsa Oblast. *Figure 1.1* shows the location of the site for the solar plant.

The project will install 20,328 solar photovoltaic (PV) modules totalling installed peak capacity of 5 megawatt, which will provide an annual gross electricity generation of approximately 5.744 million kilowatt-hours.

Electricity generated at the solar plant will be connected to the 110 kV distribution grid via a 110/10kV substation and 150m long of 10 kV aerial transmission line, 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 close to 11 hectares that is leased for the construction of a solar power plant by Rengy Tomashpil LLC.

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 5,365 t of CO₂), 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 satellite 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 including the following.

The project preparation included basic 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 evaluation, an Environmental and Social Action Plan (ESAP) has been developed, which identifies mitigation measures to minimise, reduce, eliminate or control potential adverse impacts of the Project. Key mitigation measures are summarised in *Table 1* of this document further below.

The Stakeholder Engagement Plan (SEP) has been developed to describe how Rengy Tomashpil 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 Tomashpil 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 laying in a distance of more than 1km from the site. No noise or flickering is expected during the operation of the solar plant 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 minor negative impacts on the environment and people, if not managed carefully. Therefore, Rengy Tomashpil 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.	<ul style="list-style-type: none"> - Prepare and implement construction management plan to reduce and mitigate general construction impacts, including noise, air emissions, waste generation and disposal, erosion. - Choose contractors who adhere to relevant environmental and social requirements. - 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 10kV 150m long transmission line will be crossing the village road leading to the local substation.	<ul style="list-style-type: none"> - Ensure appropriate design and routing of the transmission line to avoid restriction of vehicle traffic; - Comply with relevant sanitary and environmental requirements and norms.
3	Replacement of a bus stop cubicle	The current bus stop adjoins the plant border which is due to be re-allocated to a nearby designated location.	<ul style="list-style-type: none"> - Prepare a new cubicle according to the current standards as requested by the transport authority; - Allocate the new cubicle properly in a convenient location before removing the old one.
4	Surveillance and security systems	Potential bright lights turning on during night time.	<ul style="list-style-type: none"> - Correctly install and regularly maintain the equipment; - Adjust sensitivity levels to avoid unnecessary disturbances.