

# Eco-Optima wind project non-technical summary

## 1 Introduction

Private company Eco-Optima has approached the European Bank for Reconstruction and Development (EBRD) for financing the project of Stary Sambir wind power farm construction in Lviv Oblast of Ukraine. The project is thus subject to EBRD's 2008 Environmental and Social Policy and has been determined as a Category B project. EBRD has conducted an environmental and social due diligence assessment of the project and supported the development of applicable environmental and social documentation, namely, an Environmental and Social Action Plan, a Stakeholder Engagement Plan, and this Non-Technical Summary (NTS) of the environmental and social considerations.

This document provides an overview of the proposed development plans in a non-technical manner ; a summary of potential environmental and social impacts , and appropriate measures to mitigate key adverse environmental and social effects.

This NTS document and other materials will be placed in the locations shown below for public disclosure.

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

- *Eco-Optima company offices*  
Address: 64/9, Academika Pavlova Street, Lviv Phone: +38 032 2948122
- *Stary Sambir Town Hall*  
Address: 35, L.Galytskogo Str., Stary Sambir, Lviv Oblast Phone: +38 03238 21643
- *Stary Sambir District Administration*  
Address: 40, L.Galytskogo Str., Stary Sambir, Lviv Oblast

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 Eco-Optima Limited Liability Company was established in 2004 in the City of Lviv. Main business focus of the company is the development of renewable energy projects in Western Ukraine, including the project of Stary Sambir wind power farm.

The project is located in the Precarpathian lowland at the headwater of Dnister River, 74 km southwesterly from Lviv, and approximately 40 km east of the Ukrainian border with Poland. The next largest city is Drohobysch. *Figure 1.1* further below shows the location of the site for the wind farm.

The project will install five Wind Turbine Generators with a 100 meter rotor diameter and 100 meter high towers (making the overall height of the installation 150m at the highest point). The planned installed capacity of the project will reach 12.5 megawatt, which will provide an annual gross electricity generation of 32 million kilowatt-hours.

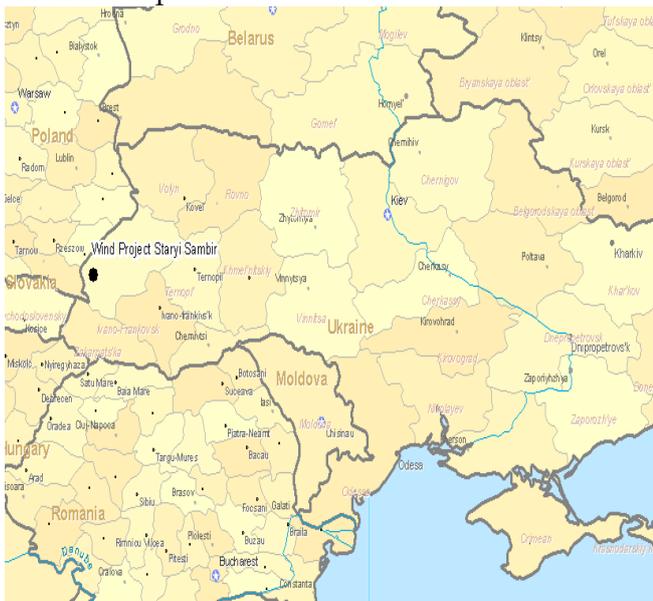
Electricity generated at the wind farm will be connected to the 110 kV distribution grid via a 35/10kV substation and 4.5 km long of 35 kV aerial transmission line, and will be sold to the grid at the feed-in tariff under the “Green Tariff Law”.

The wind power plant will be operated on an area of close to two hectares that will be leased for erection of the towers and other buildings by Eko-Optima. In addition, Eko-Optima will lease another 1.3 ha short-term during the construction period.

By using the renewable wind 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, 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. Sensitive locations

The project is situated in an area of medium sensitivity.

There are no protected areas in the immediate vicinity of the project site. The nearest protected area, landscape park Verhnyodnistrovski Beskydy, is located more than 20km to the south-east of the project.

The nearest residential properties are located at approximately 730m from the site, which, according to the ONVS report, is far enough to ensure that noise levels from the generators are within local sanitary norms.

### 3.2 Project impacts and their mitigation

The EBRD's environmental and social diligence evaluation determined that, in addition to its benefits, the project could have negative impacts on the environment and people, if not managed carefully. Therefore, the EBRD will require Eco-Optima to 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 the *Table* below.

**Table . 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 (wind masts and substation) and associated (access road, transmission line) project facilities, such as land excavation, dust, noise, air emissions from vehicles involved, increased road traffic, etc.	Prepare and implement construction management plan to reduce and mitigate general construction impacts, including noise, air emissions, waste generation and disposal, increased road traffic; Continuously monitor impacts to comply with appropriate national environmental standards and EBRD requirements.
3	Birds and bats	Potential impacts on birds and bats migration.	Continuously monitor of impacts on birds, especially during migration periods in spring and autumn, and bats, with potential adjustment of operation during migration periods.
5	Transmission line	Associated 35kV 4.5km long transmission line of will be crossing the outskirts of the town Staro Sambir and the river.	Ensure appropriate design and routing of the transmission line to avoing residential properties and other sensitive locations; Comply with relevant sanitary and environmental requirements and norms.