

Project for the construction of a wind power plant of Wind Farm LLC with a capacity of 800 MW in the territory of the Mariupol District of Donetsk region

Project description	
Project initiator	WIND FARM LLC
The essence of the project	Construction of an 800 MW Wind Farm LLC and development of related industries
Project goal	Attracting of investments and supporting industries with economic and innovative development potential. Creating new jobs; Construction and operation of a renewable energy power plant (wind power). Deregulation of the energy industry.
Compliance with strategic documents and assignment of priorities	<p>The project goals correspond to:</p> <ul style="list-style-type: none"> - Sustainable Development Goals of Ukraine for the period up to 2030 (paragraphs 7,8,9,13), approved by decree of the president of Ukraine "on Sustainable Development Goals of Ukraine for the period up to 2030" dated September 30, 2019 No. 722/2019. - Energy strategy of Ukraine for the period up to 2035 "safety, energy efficiency, competitiveness". - Task 4.3.2. "Alternative energy development" operational goal 4.3. "Sustainable waste and hazardous chemicals management "of Strategic Goal 4" environmental safety and balanced environmental management " of the Donetsk Region Development Strategy for the period up to 2027.
Study of the problem that will be solved as part of the project implementation	<p>As a result of the occupation of part of the territory, the investment attractiveness of the Donetsk region has been significantly reduced.</p> <p>Project implementation includes construction and operation of a renewable energy power plant (wind power).</p> <p>Project Features:</p> <ul style="list-style-type: none"> - it includes organization of production of components of wind turbines in Ukraine, that is, the creation of a production chain that will include metallurgy, Machine-Building, transport and construction industries and energy. - after the launch of the wind farm, it is planned to sell the generated electricity on the Electricity Market on general terms (without the "green" tariff), which will contribute to the development of liquidity in the electricity market and reduce the price of electric energy. <p>To attract investment (the economy of such a project may not be attractive enough), Wind Pharm LLC expects to receive a surcharge for using Ukrainian-made equipment.</p> <p>For the project "New construction of a wind power plant of Wind Farm LLC with a capacity of 800 MW in the territory of the Mariupol District of Donetsk region", urban planning documentation – a detailed plan of the territory - has been fully implemented and approved. As an integral part of the approved urban planning documentation, the section "strategic environmental assessment" was approved, which is a document for determining, describing and evaluating the consequences of implementing state planning documents for the environment, including public health, justified alternatives, and developing measures to prevent, reduce and mitigate possible negative consequences.</p>
The estimated cost of the project amounts to	<p>Total estimated project cost: 26,997,352. 0 thousand UAH incl.</p> <ul style="list-style-type: none"> - the budget of the wind farm construction project is approximately 940 million dollars. this is equivalent to 25,463,002.0 thousand UAH .

	<p>-the budget for the construction of the plant and assembly production is 50 million euro., which is equivalent to 1,534,350. 0 thousand UAH.</p> <p>Project budget by year:</p> <ul style="list-style-type: none"> - in the period from 2020 to 2023 – 13 155 230, 7 thousand UAH. - in the period from 2024 to 2026 – 13,842,121.3 thousand UAH.
Project Implementation Arrangement	The project is expected to be implemented at the expense of debt money and private investments
Key financial figures of the project implementation	IRR – 17-19%
Project implementation term	2020 – 2026
Indicative funding sources to finance the project	<ul style="list-style-type: none"> - foreign direct investment of international companies - Debt money of financial and credit institutions
Project Implementation Arrangement	Development
Interested parties and expected result of the project implementation	<p>Target groups interested in implementing the project:</p> <ol style="list-style-type: none"> 1. <u>National level.</u> Positive impact of project implementation: <ul style="list-style-type: none"> - creating value chains in industry; - additional tax revenues to the national budget, revenues to social insurance funds and the pension fund; - development of renewable energy sources. 2. <u>Donetsk region.</u> Positive impact of project implementation: <ul style="list-style-type: none"> - creating new jobs; - improving the environmental situation in the region by reducing the volume of slag dumps on the territory of the Mariupol by approximately 1 million m³; - additional tax revenues to the regional budget. 3. <u>Mariupol district.</u> Positive impact of project implementation: <ul style="list-style-type: none"> - additional tax revenues to the regional budget. - creation of new and restoration of existing district infrastructure facilities within the framework of social partnership programs between districts and Wind Farm LLC.
Characteristics of an object (existing or newly created)	
Location of the object	Donetsk region, territory of the Mariupol district.
Description of existing objects or those that are proposed to be created as part of	<p>Currently, the land plots are undeveloped.</p> <p>1. during the implementation of the project "new construction of a wind power plant (WPP) of Wind Farm LLC with a capacity of 800 MW in the territory of the Mariupol District of Donetsk region ":</p>

the project implementation	<ul style="list-style-type: none"> - a wind farm with a total capacity of 800 MW will be built. Implementation is planned in four stages of 200 MW each. - planned connection points: Pivdennodonbaska 750 KV substation. - the number of wind turbines is up to 160 units. - construction of paved roads of the Mariupol region with a total length of approximately 200-250 km for further use both for the operation of wind farms and for residents. - construction of 16 intermediate power collection substations with a voltage of 150/35 KV and a capacity of 55 MVA. - construction of a central substation for collecting and issuing power with a voltage of 330/150/10 KV. - construction of a 150 kV overhead line with an estimated length of 84 km. - construction of a 330 kV overhead line with an estimated length of 47 km. - control room building. <p>2. Creation of a plant for the production of wind power plants components , creation of an assembly plant within the Mariupol city.</p>
Form of property	private
Related infrastructure	<p>For the needs of wind farms: there is a power supply network for connecting the "town" of builders.</p> <p>For the production needs of wind farm components: it is possible to deploy production of vacant land plots within the city of Mariupol, where all the necessary infrastructure is available, or there is a possibility of supply.</p>
Land area, hectare	<p>For the needs of wind farms: the approximate need for land plots is 135 hectares, these are free – standing land plots that are located within shelter forest belt.</p> <p>For the production needs of wind farm components: a land plot with an estimated area of 3 hectares. More precise parameters will be determined by the manufacturer.</p>
Land plot status	<p>For the needs of wind farms: for the entire number of necessary land plots, permits for the development of land management projects were obtained from the Main Department of Derzhheokadastr in the Donetsk region. Land management works continue. (a wind farm situation plan with the location of wind farm infrastructure facilities is attached)</p> <p>For the production needs of wind farm components: the location of the plots will be determined by the selected wind power equipment manufacturer.</p>
Levelling of land	<p>The necessary urban planning documentation has been developed and approved:</p> <ol style="list-style-type: none"> 1. "Detailed territory plan for the construction of wind power plant facilities with a capacity of 800 MW on state-owned land plots with a total area of 13,500 hectares, on the territory of Berdyansk, Komyshuvatska, Starodubivska village councils (outside the settlement) of the Manhush District of Donetsk region", approved by Order of the chairman of the Manhush District State Administration No. 79/7-20 of 18.03.2020. 2. "Detailed territory plan for the construction of wind power plant facilities with a capacity of 800 MW on a land plot with an approximate area of 3750 hectares, located on the territory of the Boiove village council of the Nikolsky District of the Donetsk region", approved by Order of the chairman of the Nikolsky District State Administration No. 91 dated 18.03.2020.