


Creation of an agricultural raw material processing line (straw) in fuel briquettes

Project description	
Project initiator	Bakhmut City Council
Project concept	The project involves the creation of an alternative fuel production facility, which will contribute to energy independence and diversification of the community's heat supply market. The creation of the processing line is planned on the basis of the farm "DZHYNA 2017", which is engaged in the cultivation of agricultural crops (wheat, barley) on the territory of the Bakhmut city territorial community. As a result of the farm's activities, a large amount of agricultural raw material waste is generated including straw, which can be used as an alternative fuel. The annual volume of agricultural raw materials is about 400 tons. In addition, there are other farms in the community that generate waste from agricultural raw materials and are ready to supply up to 2,700 tons of straw per year for the production of biofuels. Thus, the total production volume will be 1,500 tons of biofuels per year.
Project mission	Improving conditions for the development of alternative energy in the territory of the Bakhmut city territorial community
Compliance with strategic documents and assignation 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 7,13), 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. - Operational goal B.1.6. "Introduction of alternative energy" strategic goal B.1. "Energy efficient policy and infrastructure" of the Bakhmut city territorial community strategy for the period up to 2027.
Study of the problem that will be solved as part of the project implementation	The implementation of the project makes it possible to solve a number of problems related to the growing cost of energy, environmental pollution, and the constant increase in tariffs for housing and communal services.
The estimated cost of the project amounts to	250000,0 thousand UAH.
Project Implementation Arrangement	<p>The project is planned to be implemented at the expense of grant funds and the company's own funds.</p> <p>This project involves:</p> <ol style="list-style-type: none"> 1) construction of a warehouse with an area of 525 m² and a height of up to 4 meters, in which briquette line will be located. Connection of engineering communications (electricity, water supply); 2) purchase of equipment and machinery (briquetting line with a production capacity of 1000 kg/h with a turret press, ELHON roll selector press, mounted Bale loader, YTO x1204 tractor, roll winding machine).

Key financial indicators of the project implementation	Preliminary estimates for the the average annual income of 4 million UAH. Payback period-3 years
Project implementation term	12 months
Indicative funding sources to finance the project	Funder, own funds of the company
Project Implementation Arrangement	DZHYNA 2017 Farm has developed a project concept
Interested parties and expected result of the project implementation	Target groups: <ul style="list-style-type: none"> - potential consumers of biofuels (heat supply companies that provide services on the territory of the Bakhmut city territorial community (LLC "Bakhmut Energiya", municipal enterprise "progress"), enterprises and organizations that use solid fuel boilers); - Bakhmut City Council - receiving additional revenues to the territorial community budget, developing renewable energy in the community, creating new jobs, and reducing harmful emissions into the environment. - farm "Gina 2017" -making a profit, reducing the share of primary energy resources in the country's fuel and energy balance.
Characteristics of an object (existing or newly created)	
Location of the object	Donetsk region, Bakhmut city territorial community, Zelenopillia village
Description of existing objects or those that are proposed to be created as part of the project implementation	Building-free territory It is proposed to build a warehouse, install a briquette line, purchase equipment, and launch and commission the line.
Form of property	Private property
Related infrastructure	Distance to the Regional Center (Kramatorsk city) ~ 55 km. Distance to Bakhmut ~ 20 km. The distance to the train station is ~21 km. Access to road transport infrastructure ~0.5 km; Access to electricity and water supply systems.
Land area, hectare	~0.6 km ²
Land plot status	Private property Intended use-industrial/ agricultural land Is not used currently 

Levelling of land

Decisions of the Bakhmut City Council:

- dated 20.12.2017 No. 6/108-2067 approved "Master Plan of Bakhmut";
- dated 26.02.2020 No. 6/140-293 approved "zoning plan for the territory of the city of Bakhmut"

Contact Data:

Yukhno Maryna - head of the Economic Development Department of the Bakhmut City Council

84500, Ukraine, Donetsk region, Bakhmut city, Myru, 44

Phone: +38 (06274)4-03-95;

E-mail: infoz@i.ua