



NATIONAL AGENCY
OF INVESTMENT
AND PRIVATIZATION
REPUBLIC OF BELARUS

ORGANIZATION OF PRODUCTION OF FUEL PELLETS

WOOD PELLET PRODUCTION

The aim of the project is to set up the production of fuel pellets from wood

Product	<p>Fuel pellets (pellets) - biofuels obtained from wood waste. It is a cylindrical granule of standard size.</p> <p>Pellets are environmentally friendly and cheap fuel, safe and convenient to use for heating in boiler houses of both home and production scale.</p>
Raw materials	<p>Wood (chips) and woodworking waste</p>
Advantages of the project	<ul style="list-style-type: none">• low cost of raw materials;• simple technology of pellet production, in which chemical additives are not used;• pellets do not contain dust and spores, are less susceptible to self-ignition and do not cause an allergic reaction in humans;• pellets differ from ordinary wood with high dryness and high calorific value (when a ton of pellets is burned, approximately 3.5 thousand kWh of heat is released, this is one and a half times more than in ordinary firewood;• high and constant bulk density allowing relatively easy transport of this bulk product over long distances• Pellet prices are not regulated by the state as opposed to prices for firewood and natural gas.
Main consumers and sales directions	<ul style="list-style-type: none">• individuals for heating residential buildings by burning in pellet boilers, furnaces and fireplaces;• generation of heat and electricity for settlements and industrial enterprises in boilers of higher capacity;• as filler for cat toilets

Production technology

The raw material enters the crusher, where it is ground to the state of flour. The resulting mass enters the dryer, and from it - to the press granulator, where the wood flour is compressed into granules. Compression during pressing increases the temperature of the material, the lignin contained in the wood softens and glues the particles into dense cylinders.

The production of one ton of pellets takes about 2.3-2.6 dense cubic meters of wood waste. The finished granules are cooled, packed in various packages - from small bags (2-20 kg) to big bags (large industrial packaging) weighing 1 ton - or delivered to the consumer by placer.

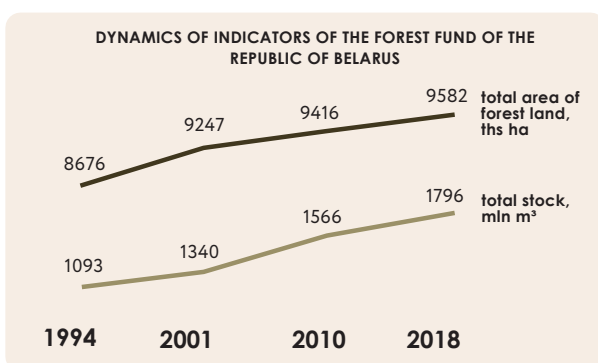
According to Hawkins - Wright & The World Bioenergy Association, over the past five years, the pellet market in the world has been growing by 33 percent annually.

In industry, the incentive to increase the consumption of this fuel in European countries is the idea of reducing CO₂ emissions and related subsidies and tax incentives for replacing coal with solid biofuels.

In the private sector, the development of bioenergy is stimulated by high tariffs for natural gas used for heating.

Burning 1 ton of wood pellets generates as much energy as can be obtained from 5 cubic meters of firewood, 480 m³ of gas, 500 liters of diesel fuel or 700 liters of fuel oil.

FORESTRY OF THE REPUBLIC OF BELARUS



The main indicators of the forest fund as of January 1, 2020:

- forest area - 8260.9 thousand hectares;
- total stock of standing timber - amounted to 1796.0 million m³;

Belarus is one of the top ten forest states in Europe (the share of forests in the country is 39.8%).

Possible forms of investor participation

Creation of a new enterprise.
The estimated investment costs start from 0.3 million US dollars

NATIONAL AGENCY OF INVESTMENT AND PRIVATIZATION

The Agency is ready to help foreign investors interested in doing business in Belarus:

- Presentation of information on investment opportunities, preferential regimes and benefits, industries, legislation
- Provision of current information on investment projects
- Selection and provision of information on options for land and premises
- Search for potential partners for the implementation of the investment project; organization of meetings, negotiations with potential partners to establish cooperation
- Providing a platform for negotiations and support for the investor during the negotiations — Organization of visits to the Republic of Belarus (development of a program of stay, assistance in obtaining a visa)
- Representing the interests of the investor in negotiations with government officials on the implementation of investment projects, as well as on improving business practices in the Republic of Belarus
- Post investment support



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