

**Construction of a modern waste incineration plant in  
2023. year.**



**New Energy Severodonetsk**

Effective disposal of solid household waste, production of heat and electricity from alternative sources, solving environmental problems of pollution.

Severodonetsk city-territorial community is interested in effective disposal of solid waste, production of heat and electricity from alternative sources, solving ecological problems of environmental pollution, creating additional jobs and increasing revenues to the local budget.

The construction of a waste incineration plant on the territory of the city of Severodonetsk will allow solving a number of problematic issues: Solid household waste is disposed of without harming the environment. After incineration, the energy is converted into electricity and thermal energy, which provides the community, and this is an opportunity to completely abandon Russian gas.



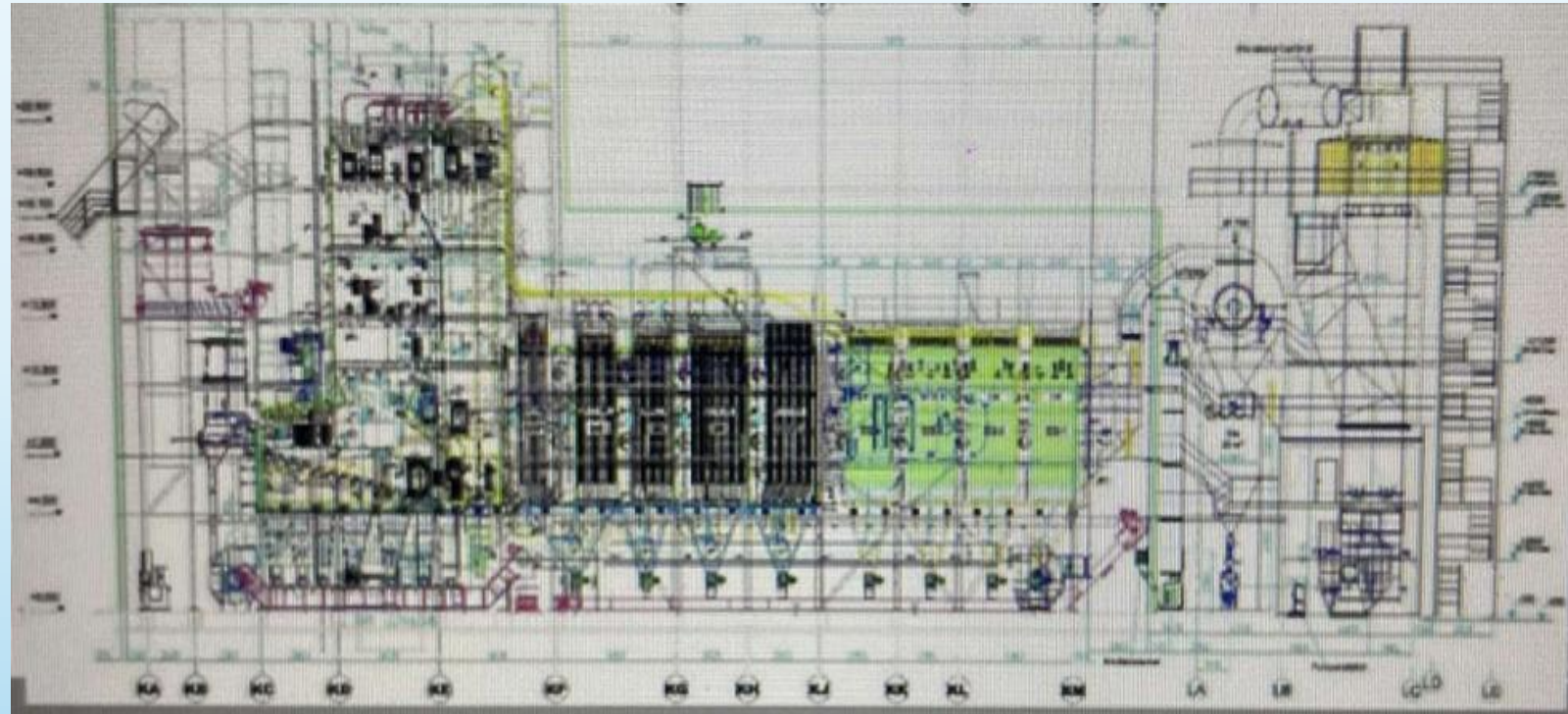




The main technical characteristics of the construction option waste incineration plant with an annual volume of solid waste disposal municipal waste about 100,000 tons.

Annual amount of disposed solid household waste (MSW): 100,000 tons/year;

- Duration of MSE work: 8,000 hours/year;
- Average calorie content of MSW: 1600 kcal/kg;
- The composition of the main energy equipment of MSE:
  - 1 combustion line (the line includes a steam boiler unit with a steam productivity of 26.7 t/h and gas cleaning system)
  - 1 steam turbine with an installed electrical capacity of 5.2 MW;
- Working environment parameters:
  - superheated steam:  
pressure - 3.92 MPa,  
temperature - 440 °C;
  - feed water temperature: - 150 °C;



The concept of modern implementation in Ukraine environmentally friendly incinerators clean factories that

is based on the following principles:

• implementation of commercially successful,

energy-efficient technologies in cooperation with recognized European manufacturers;

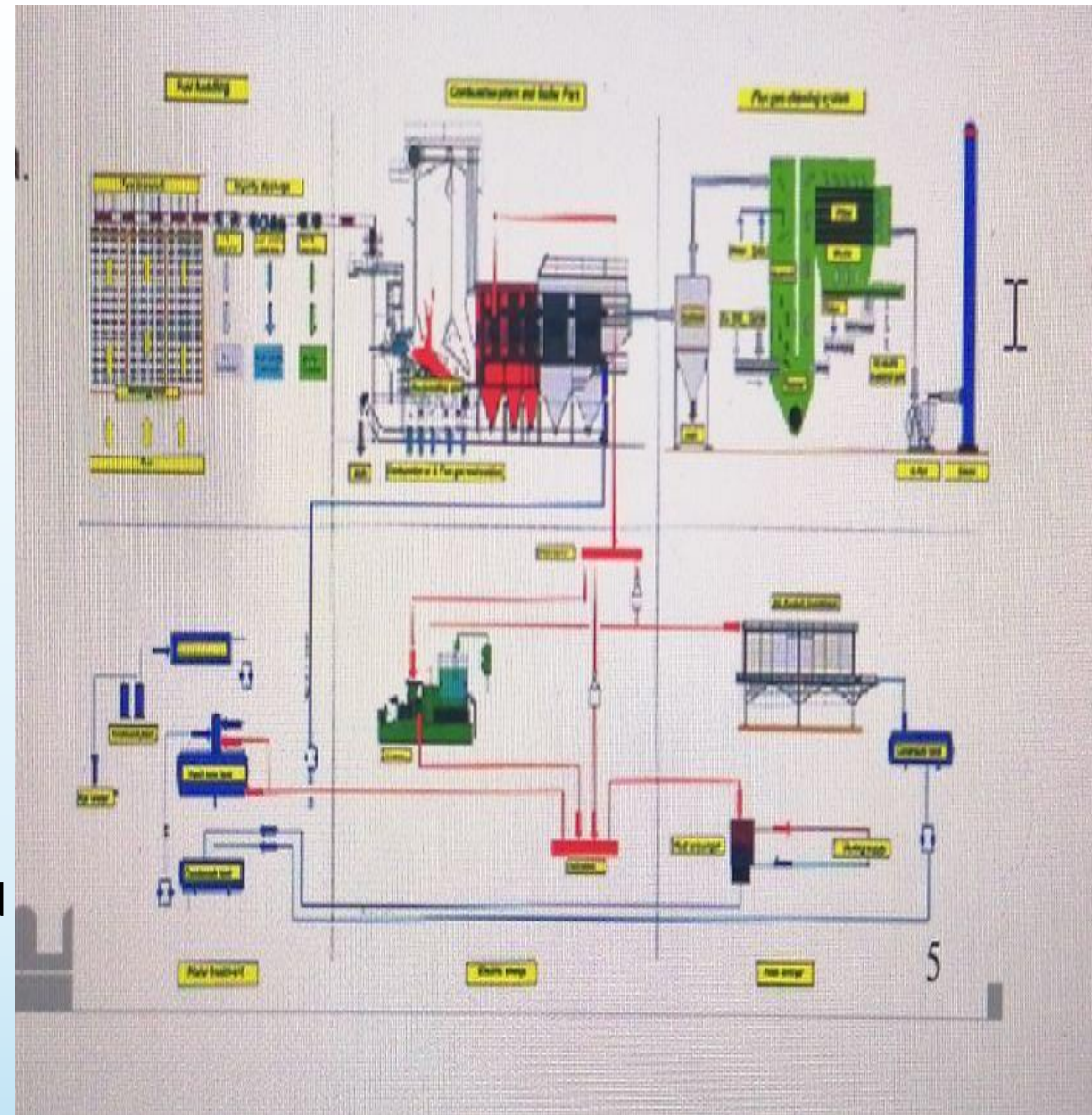
• provision of the maximum destiny in the project European production;

• high technical and economic indicators of the project;

• achievements in the project of rigid European environmental regulations and the possibility of export electricity in the EU;

• providing a comprehensive approach at the stage attracting and justifying European investments.

The remaining elements at the factory continue to be used further. For example, ashes are used to build roads. Waste mines are filled with dust from boilers and filters. Building mixtures are produced from gypsum.





Mode of operation of the waste incineration plant:

- In the heating period: heating mode (combined production of electric and thermal energy). On average, during the heating period, the thermal power will be

about 5.6 Gcal/hour, electric power 4.6 MW. At peak loads in during the heating period, the thermal power will be about 11.2 Gcal/h, electric

capacity 4.0 MW.

- In the interheating period: condensation mode (production of only electrical energy).

- In the interheating period: condensation mode (production of only electrical energy). The electric power in this mode will be about 5.2 MW. For the

construction of MSE, it is necessary:

- the land area is up to 4 hectares.

Indicative cost of construction modern environmentally friendly waste incineration plant:

- will amount to about \$90 million.









Experts have proven that the classic form of waste disposal "container - garbage truck - landfill - reclamation" is currently potentially dangerous, since a landfill covered with soil stimulates the greenhouse effect, is a source of "landfill gas" and is organizationally ineffective.

The main goal of the construction of a modern waste incineration plant for the city of Severodonetsk, Luhansk region, is the uninterrupted supply of thermal and electrical energy to the residents of the city using available resources and sources. The experience of European countries shows that the implementation of the use of alternative energy sources allowed them to overcome a number of economic and energy problems in the field of energy and housing and communal services. Restoration of energy and heat generation is a priority direction for the city of Severodonetsk immediately after deoccupation. The Luhansk region will be restored on par with the countries of the European Union. Understanding that today European countries have a large number of waste incineration plants, this only confirms the fact that the path to energy independence from the aggressor country and Russian gas is faithful.



# DREAM OF THE CITY OF SEVERODONETSK.





# UTILITY ENTERPRISE \*GREEN CITY\*





THANK YOU FOR VIEWING OUR  
PRESENTATION.

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