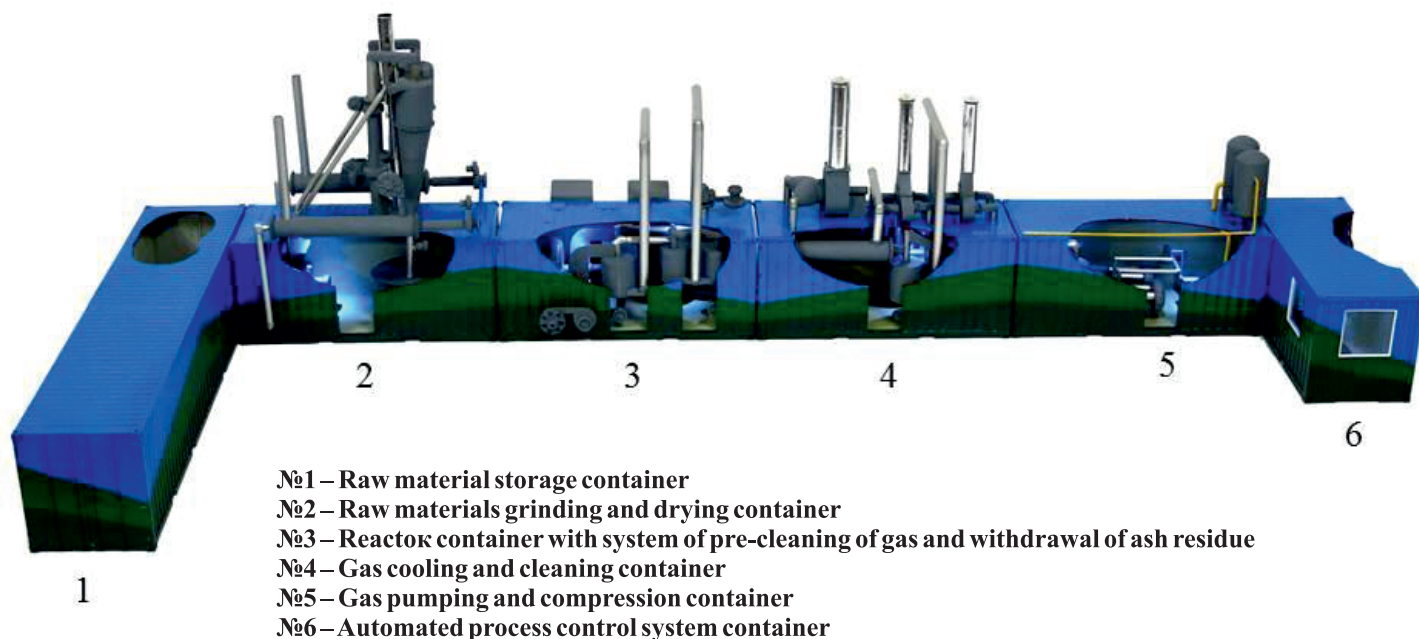


PLANT FOR PROCESSING OF CARBONACEOUS WASTES

with recovery of energy products and production of electric energy.



The plant is designed for processing the following types of wastes:

- Sorted municipal solid waste (MSW);
- Silt precipitation of urban sewers;
- Organic waste from industrial production;
- All kinds of materials of organic origin (peat, coal, etc.);
- Livestock, poultry and crop production waste.

Features of the plant:

- Production of mixed synthesis gas from carbonaceous waste with a calorific capacity of 6,000 to 8,000 kcal/m³ and liquid combustible hydrocarbons.
- Full energy independence of the plant (works on the generated synthesis gas).
- No substances that are subject to further burial are formed during the process.
- Absence of replaceable filters that are subject to further utilization (burial).
- No need to use water for the operation of the plant.
- Use of increased fire and explosion safety measures in the processing of waste and the production of combustible gases.
- Application of own developments in the design of a vortex reactor of thermal destruction, vortex combustion chambers and afterburners of flue gases used in the operation of the waste processing plant.

Technical specifications:

Construction	Block-modular (based on standard 20-foot shipping containers) – 5 containers
Characteristics of recyclable waste	Humidity: 20 to 75%
	Fraction size up to 6 mm
Productivity	Up to 2 tons per hour at 20% humidity (from 17,000 tons per year at 20% humidity) Up to 5.7 tons per hour at up to 75% humidity (from 50,000 tons per year at 75% humidity)
Volume of produced gas (depending on the type of waste)	From 1,200 to 1,800 m ³ per hour, (10 to 15 million m ³ per year)
Volume of generated energy in gas engine in cogeneration mode (depending on the type of waste)	Electric energy: 1.5 to 4.0 MWh, (12,500 to 33,500 MW per year). Thermal energy: 2.58 to 6.0 MWh, (21,000 to 50,000 MW per year)

Possibility to increase the volume of recycled waste by installing of additional units, running in parallel.

Staff required for the plant operation is 3 people per shift and a repair team of 2 to 3 people for repairs and periodic maintenance.

Plant manufacture time is 10 to 15 months.

Warranty for the plant equipment is 18 months.

Payback period is 2 to 6 years.

Land size required to locate the plant is 0.05 hectares.

Общество с ограниченной ответственностью

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