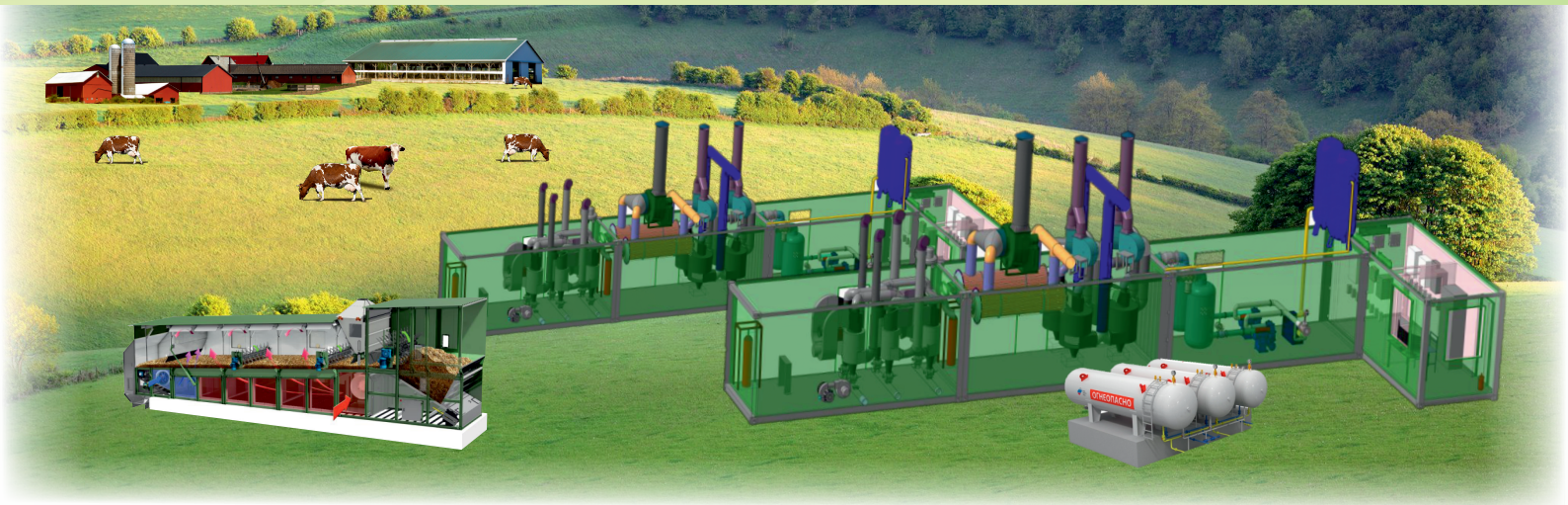


PLANT FOR PROCESSING OF AGRICULTURAL ORGANIC WASTE

with recovery of energy products and production of electric energy



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

- Bird droppings.
- Manure of any agricultural animals (incl. pigs).
- Spoiled grain and grain processing waste (peel, etc.).
- All types of agricultural products processing waste (feather, skins, bones, etc.).
- Crop production waste (incl. coconut, bagasse, any root crops, etc.).

Features of the plant:

- Production of mixed synthesis gas from agricultural 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) – 4 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 6 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: 2.5 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.

Land size required to locate the plant is 0.05 hectares.

Payback period is 2 to 6 years. General Director:

To increase the financial profit and efficiency of projects, it is necessary to use the thermal energy and steam obtained at the plant directly in the technological processes of agricultural enterprises.

Общество с ограниченной ответственностью

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