Production of unique plasma gasification units

What is plasma gasification technology ?

Plasma gasification is a proven advanced technology for the disposal of unsorted waste and is the most environmentally safe method of waste disposal.

Production of plasma gasification plants

Due to the high temperature in the plasmatron, a product is obtained with a composition approximately like natural gas

The resulting gas is not released into the atmosphere, but is directed to energy generation

It is not necessary to sort and dry the waste, plasma technology does not require any pre-disposal preparation

Energy can be used to supply its own production or for sale

We produce plasma gasification plants for environmentally friendly disposal of any hazard class waste of the Neutron UPG series

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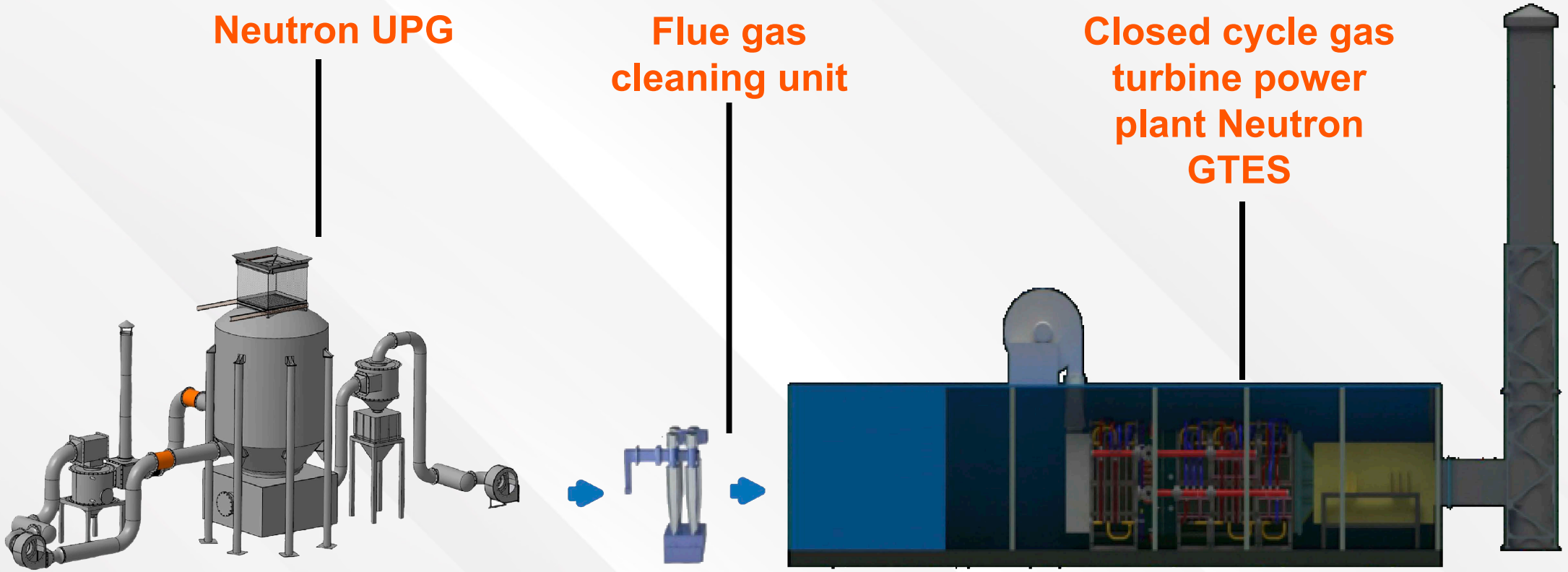
Mobile solid waste processing complex with electricity generation



Production of plasma gasification plants

Get free energy from recycling

The plant converts any type of waste, including organic waste, hazardous waste, into electricity

Production of plasma gasification plants

The latest innovative development

Has no world analogues in efficiency and cost in the class of devices - organic waste utilizers

Original technologies and equipment have been developed and protected according to international standards

Production of plasma gasification plants

Productivity from **50 tons** of waste per day

Processing of waste of hazard classes 1-5

Without preliminary drying and sorting

100% waste combustion

Plasma gasification plants are in demand

Livestock and poultry farms

Paint and varnish productions

Crop farms

Petrochemical productions

Woodworking enterprises

Large canning plants

When processing 50 tons of waste, the following is formed

- combustible gas (synthesis gas)
- electricity
- heat
- inert slag

50 000 M^3
7 MWT\H
16 GKal
350 kg

Compare our installation with analogues

- The productivity of the installation is 10-15 times higher than that of known arc plasmatrons comparable in furnace volumes
- The cost of installations of similar productivity is from 35 millions USD on the international market.
- The cost of the installation with the basic equipment package is from 8 million USD including delivery

Plasma gasifier Neutron UPG	Pyrolysis plants	Low power plasmatrons Plazarium	Westinghouse plants (plasma gasification)
Combustion temperature up to 8000-10000 °C	Stated temperature up to 1000°C	Combustion temperature up to 3000°C	Waste is not completely incinerated
No emissions of CO2 and toxic dioxins	Actually 300-400°C (Only half of the waste burns)	There are special igniters (enough for a short time)	There are filters that need to be changed every month
Long service life of UPG Service life over 10 years	Very harmful emissions	Expensive to maintain	The cost of one filter from $100,000
We utilize waste without sorting	Requires power from 1MW to start	More suitable for biological waste	Very high cost (from $100 million)
45 kW of power is required to start		Expensive electrodes with a service life of 2000 hours	Requires high power (from 3 MW to start)

Why is our plasma gasifier unique?

No harmful emissions (including dioxins)

After starting, the external power source is disconnected

No need for expensive consumable electrodes and filters

High degree of safety due to low inertia of the process

The installation can be serviced by only 1 person

Exceeds arc plasma torches in productivity by 15 times

Production of plasma gasification plants

The finished product is almost 300 times smaller than the original volume of waste

All toxic substances and gases are completely burned

Production of plasma gasification plants

Combustion temperature:	up to 10000°C
Productivity:	from 50 tons per day
Volume of gas produced:	from 50 000 M^3
Type of organic waste:	no limits
Operating mode:	uninterrupted
Energy consumption:	45 kW (start-up only) от
Climatic conditions:	-50°C up to +50°C
Service life:	30 years

Equipment

- Installation housing Ø 3 m, H = 6 m
- Afterburner chamber 2m x 2m H = 1.2 m
- Cyclone ash residue collector
- Gas cooling cyclone of the recirculation system
- Fan - smoke exhauster No. 9 stainless steel from gas cooling cyclone
- Fan - smoke exhauster No. 6 stainless steel from the ash residue cyclone collector
- Pipelines, fittings Ø 300 and Ø 500 from cyclones
- Skip loader up to 6 m high
- Valves, heat-resistant soft vibration-damping inserts on pipelines

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