

Graforce GmbH

About Graforce

Since 2010, Graforce has been working on the future of energy supply. Graforce's plasmalysis technology is capable of avoiding environmentally harmful emissions and realizing a "water - hydrogen - water" cycle within the energy industry that is geared towards sustainability. The company thus supplies a key component for the successful introduction of power to gas technology and wastewater treatment. Graforce is located in Berlin-Adlershof, one of the 15 largest science parks worldwide and the most important science, business and media location in Berlin/Brandenburg. On an area of 4.2 km² there are ten non-university research institutions, six institutes of the Humboldt-Universität zu Berlin and almost 1400 technology companies.

Founder: Jens Hanke

Jens Hanke holds a PhD in theoretical medicine from Humboldt-Universität zu Berlin and a degree in mathematics. Before founding Graforce, he successfully developed a wide range of products that have brought it to market worldwide, including navigation systems for unmanned vehicles and mobile security robots for object surveillance.

Number of employees: 20

What is plasmalysis?

In Plasmalysis, water (H₂O) is split into oxygen (O) and hydrogen (H) with the aid of renewable electricity and a high-frequency plasma field. (similar to electrolysis)

What are the advantages of plasmalysis?

The technology is capable of cleaning wastewater and producing a low-cost, low-emission fuel from it.

What is HCNG?

For the production of hydrogen-enriched compressed natural gas (HCNG), the hydrogen produced by plasmalysis is mixed with biogas. HCNG can be used as a fuel in natural gas vehicles or for generating electricity and heat in combined heat and power systems (CHPs) and gas power plants.

What are the advantages of HCNG?

HCNG is an environmentally friendly fuel for vehicles and a cost-effective alternative, particularly for local public transport and commercial vehicle fleets. The process reduces vehicle pollutant emissions (CO₂, CO, HC) by 30 to 60 percent. Nitrogen oxide emissions are also reduced by up to 60 percent.

More Information: www.graforce.com

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