BIOGAS HOCHREITER

Innovation from a single source

Wood gas CHP's

Energy for the future

Who we are.

The history of Biogas Hochreiter began in 1985 with the construction of the first own biogas plant on the parental farm in Steinau by Hans and Renate Hochreiter. The first customer plants, with already 15kWel capacity, were built in 1992. In the meantime, the family-run, medium-sized company has grown to more than 60 employees and is one of the leading manufacturers in the biogas industry worldwide. Our product range extends from 15kWel co-

generation units, to large cogeneration units in the megawatt range. The first wood gas CHP was already put into operation in 2012 at Stadtwerke Rosenheim. Over the years, the wood gas CHP's have been continuously developed. Since 2020, the wood gas CHP units have been manufactured in series in-house.

Advantages of Hochreiter wood gas CHP's

- Lower operating costs
- Increase in overall efficiency due to higher efficiencies
- CHP units according to industrial standards
- Longer oil change intervals due to additional oil tank
- Knock monitoring, misfire detection
- Remote maintenance
- Additional income through access to direct marketing
- Unit certificate for low voltage VDE4105 & Medium voltage VDE4110

Through our network of competent partners, we plan together with you your individual wood gas plant!

WOOD GAS **HODEUTZ V6** 150 kWel

Technical data:

Engine:	Deutz V6 turbo
Displacement:	11.9 liters
Power electr.:	150kW at 1500 rpm
Power therm.:	230kW

Facts:

- Robust and compact V-engine
- Proven four-valve technology with prechamber spark plugs
- Large oil volume with external oil cooler
- Best possible heat extraction through large-dimension heat exchanger

In our energy generation, we rely on regional products. Sustainability and local suppliers have top priority for us, which is why therefore we have chosen the company Biogas Hochreiter from Schnaitsee.

> Blasius Gerg <

***Glonntal Strom** is a small power grid operator with 100% regional green electricity. In 2021, two small CHP units with 50 kW each were replaced by a powerful Hochreiter wood gas CHP unit of the type HODEUTZ V6. The 150kW unit from Hochreiter will take over a significant part of the basic electrical supply combined with hydropower and photovoltaics. In cooperation with the Stadtwerke Rosenheim, the village of Piusheim and the surrounding villages within a radius of 50km are supplied with 100% green electricity. The generated continuous thermal power of 200kW is fed into the regional district heating network.*

WOOD GAS **HODEUTZ V8** 210 kWel

Technical data:

Engine:	Deutz V8 turbo
Displacement:	15.9 liters
Power electr.:	210kW at 1500 rpm
Power therm.:	280kW

Facts:

- Smooth running V8 engine
- Large displacement
- Longer oil life due to additional oil cooler
- Highly efficient charged with additional thermal power

As a civil engineer, I have given a lot of thought to the construction and operation of the wood gas plant and constantly developed it over the years.

In the beginning, I worked here with the simplest means and gained my experience.

With the decision to install a highly efficient Hochreiter CHP unit, I have upgraded my plant to a higher level.

In my main job as a civil engineer I like to advise meanwhile new & existing customers of Hochreiter, who are interested in a new construction or an increase in efficiency of a wood gas plant.

> Sepp Weber <

*Sepp Weber, owner of **EVU Lohen** started with the first wood-fired power plant in 2012 and then continuously expanded the plant up to 110kWel.*
In 2021 the three small CHP's were replaced by an efficient HODEUTZ V8 with 210kW electrical power. The electrical energy produced is profitably remunerated by Stadtwerke Rosenheim in direct marketing. An additional income is also generated through the sale of heat.
The thermal output of 280kW is fed into the local district heating network, thereby supplying 10 households and the company's own theater hall with sustainable CO2-neutral heat. With the surplus heat Sepp additionally operates a Wage drying for hay, straw, etc..
The regional wood chips used are also dried on site with the produced heat.

WOOD GAS **HOMAN H130** 285 kWel

Technical data:

Engine:	Hochreiter H130-Biturbo
Displacement:	22.62 liters
Power electr.:	285kW at 1500 rpm
Power therm.:	420kW

Facts:

- 12 cylinder V-engine, biturbo
- Large displacement
- Optimized flow paths
- Electric prelubrication pump
- Engine temperature maintenance
- Longer oil intervals due to increased oil volume of 360 liters
- Water-jacketed exhaust manifold

From the very beginning, we wanted to operate our maximum output and utilization.

Due to the stable ignition oil supply, this was also economically possible in the early years.

Our experience has shown that through continuous modernization of our wood gas plant, economical operation is also possible in the future. An important component in our development is the Hochreiter wood gas CHP Type H130LE. With optimal wood chip and wood gas quality, we can now benefit from the 300 KWel. Power in the direct marketing and see us well prepared for the future.

> Lechner/Schlipf <

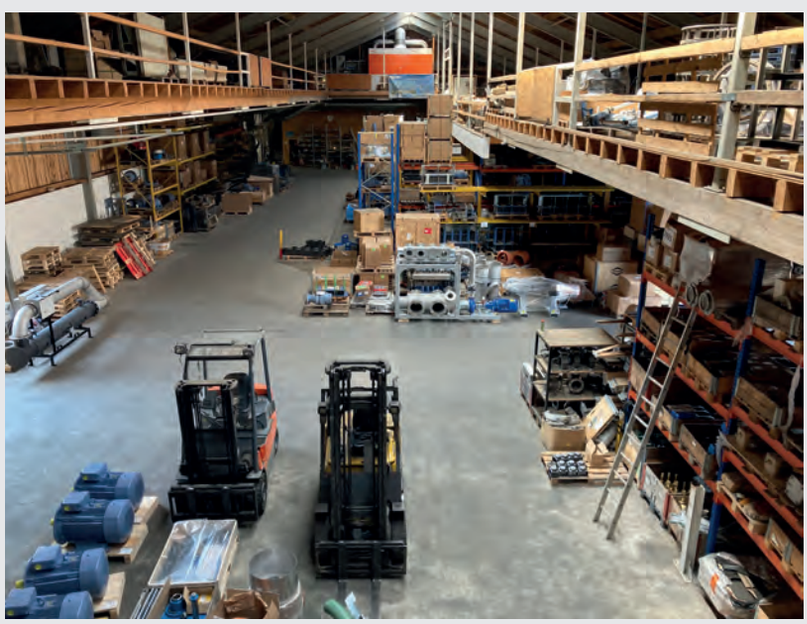
*The **Lechner** wood chip plant in **Ellenberg** went into operation with its wood gas plant back in 2011 with a 6-cylinder marine diesel with a displacement of 231 liters displacement. The plant was modernized in 2020 and equipped with new wood gasifiers.*
In order to further increase profitability and efficiency, Mr. Lechner decided in 2022 to replace the aging marine diesel with a new, state-of-the-art wood gas CHP, type H130 from Hochreiter. The 12-cylinder CHP with intercooler and biturbo generates, with the appropriate wood gas supply, up to 300 kWel. power and approx. 420 kW continuous thermal power. The waste heat is mainly used on site for drying bulk materials such as wood chips and bark mulch.
In cooperation with a direct seller, the majority of the generated electrical power is profitably sold on the electricity exchange or remunerated via the EEG. The plant thus benefits from the highly profitable electricity market prices and was able to replace the costly ignition oil completely CO2 neutral. By modernizing his plant, Mr. Lechner has taken a big step towards an economically secure and sustainable future.

CHP-**Container** Solutions

As an alternative to a CHP building, Hochreiter supplies CHP's in prefab concrete buildings with sound absorption, as a turnkey solution.
The fully installed CHP's are ready for operation and only need to be connected to the gas line and transformer.
The advantages of the containers are the massive and in effect almost soundproof construction and the possibility to adapt them to your needs.

SERVICES

With our dedicated and experienced team, we accompany you from the consultation and planning to the successful operation of your wood gas plant. We offer you all services for your wood gas CHP unit and coordinate the necessary maintenance work with your needs in good time.
From our extensive 2,500 m² spare parts warehouse, we guarantee you the fastest possible supply of spare parts. Through the remote maintenance option, we can offer you assistance and advice 7 days a week.



BIOGAS HOCHREITER

Innovation from a single source

BHKW Johann Hochreiter GmbH
Stangern 12
D-83530 Schnaitsee
Tel. +49 (0)8074 / 915 66-0
info@biogas-hochreiter.de
www.biogas-hochreiter.de