



GENTEC CHP, Ltd.

GENTEC CHP s. r. o. is a major Czech manufacturer of cogeneration units (KGJ) for natural gas, biogas and other fuels with outputs ranging from 30 kW to 11,000 kW. The company is part of the AKURAT GROUP, which includes [GENTEC CHP](#), [Multicont Containers](#) and [aggregaat](#). The group provides comprehensive turnkey energy solutions, from production and installation to operation and aggregation of decentralised sources into virtual power plants.

GENTEC CHP is intensively engaged in innovation and support for the development of decentralisation, digitalisation and aggregation of flexibility in the Czech energy sector.

It has been operating on the market since 2012 and has since manufactured, delivered and commissioned over two hundred cogeneration units.

Its customers include major multinational and local energy companies. It operates in Europe, North America and Asia in 14 foreign markets.

The company invests significantly in research and development. Its main innovative activities include the development of a hydrogen-fired cogeneration unit and a CHP control system using artificial intelligence and machine learning, technologies for the newly transforming energy sector.

GENTEC CHP's management, development centre and production are based in Brno and employ over 100 people. In 2024, the company achieved sales of CZK 718 million. This represents a 100% increase in sales, with the company expecting to exceed the CZK 1 billion mark in 2025.

Website	https://gentec.en/
Social	LinkedIn
Origin	Czech Republic
Industry	Energy
Chief Executive	Václav Klein – LinkedIn
Visuals	photo Václav Klein GENTEC CHP logo product visuals

Company history

2012	Establishment of the KGJ division within Karla spol. s r.o.
2016	Establishment of GENTEC CHP s. r. o. and transfer of CHP production activities to it.
2017	Delivery of turnkey projects with CHP, a leading energy company Innogy Energo Ltd.
2019	Expansion into the United Kingdom
2020	Conclusion of a partnership for a major supply with Veolia a. s.
2021	CHP expansion into 9 European markets and preparation for expansion into other foreign markets.
2021	Development of KGJ hydrogen combustion, development of AI.
2022	Introduction of CHP burning hydrogen admixture

2023	Significant deliveries to war-torn Ukraine First CHP deliveries to the USA
2024	Deliveries and operation of sources providing support services
2025	Development of CHP burning 100% hydrogen Development of flexibility aggregation

Markets to which the company exports	Slovakia Poland Austria Italy Great Britain Ireland Romania	Serbia Bulgaria Belgium Germany Ukraine USA Canada
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Gas cogeneration units

Cogeneration is one of the most efficient and environmentally friendly ways of generating electricity, based on the effective use of heat generated during electricity production. In the process of combined heat and power generation, more than 90 % of the energy from the input fuel is utilised. In addition, thanks to the production of electricity at the point of consumption, there are no further losses caused by its transmission and distribution.

Cogeneration units have a wide range of uses – they can supply energy to industrial enterprises, schools, hospitals, spas, hotels and shopping centres. They are also an important part of every biogas plant and are installed in wastewater treatment plants to produce energy from biogas. Cogeneration units are most commonly used in heating plants.

In addition to producing electricity and heat, cogeneration units are also used to stabilise the transmission network by providing power balancing services.

Their use is growing year by year, and cogeneration units are gradually becoming one of the pillars of the domestic energy mix and an essential tool for the modernisation of the heating industry.