



Pressemitteilung

Press release · Communiqué de presse

Vechta, March 2025

WELTEC BIOPOWER strengthens its presence in Japan with two new biogas projects and WELTEC BLUE WATER treatment

Cattle and pig farms rely on stable, earthquake-proof building constructions

The German biogas specialist WELTEC BIOPOWER continues to be very active on the Japanese market. Following the installation of several agricultural plants in recent years, the company from Lower Saxony has now reported an order for a 450-kilowatt plant from the agricultural sector as well as a 250-kilowatt biogas plant in Yamagata Prefecture with additional WELTEC BLUE WATER treatment, which is currently being implemented. In addition, a 450-kilowatt plant for a pig farm near Nagano Prefecture is currently being planned. Thanks to its many years of project experience in earthquake zones – in Japan and Greece – WELTEC BIOPOWER is able to adapt its technical solutions to seismically active areas in the shortest possible time using special structural engineering.

Processing of fermentation residues ensures operational material cycle

Two digesters are available in Yamagata Prefecture to feed the 80 tons of cattle manure per day, which is used exclusively to generate electricity and heat in the 250-kilowatt plant. WELTEC's scope of supply also includes two storage tanks, a pump container, a separation unit and the combined heat and power plant (CHP). In addition to the biogas project, a WELTEC BLUE WATER plant with a processing capacity of 50,000 tons of digestate (manure and wastewater from milk production) per year is currently being constructed. The treatment technology separates the digestate from the biogas plant in a multi-stage process into solid and liquid fertilizer and dischargeable water. The resulting solid phase offers a wide range of marketing options, such as use as fertilizer in the field or as bedding in stables. This enables the operator to make additional savings on transport costs by reducing the volume of the source material.

The distribution of output materials varies depending on the dry matter content of the fermentation residue. In this project, the amount of solid fertilizer is around 3 percent, the nutrient concentrate 29 percent and the water 68 percent. Thanks to the sophisticated modular design, the industrial technology can be easily expanded in the future. A WELTEC BLUE WATER plant in Reichenbach in Vogtland, Germany, was already put into operation in March 2024 (see press release 'Reichenbach', March 2024).

Special solution for digesters for processing pig and cattle manure

From 2025, the operators of the 450-kilowatt plant will be filling a mix of 18 tons of cattle manure and food waste from the surrounding area into their digesters every day. WELTEC's innovative modular digester system makes it possible to individually adapt the diameter and height to meet customers' volume requirements or local building regulations, such as height restrictions. Instead of the usual height of 6.30 m, the digesters have been adapted to a height of 5.03 m. At both plant locations, the electricity is fed into the grid and the heat is utilized for efficient fermentation in the digesters. The fermentation residue from the 450-kilowatt plant is processed in sewage treatment plants near the sites before being used as fertilizer. A further plant is currently being planned in Nagano Prefecture. The height of the digester is also adapted as a special solution to 05.03 meters and equipped with a capacity of 450 kilowatts.

WELTEC CONTROL for quick access

The installed, web-based WELTEC CONTROL software gives Japanese operators quick access to all important system parameters. The system with its intuitive user interface also simplifies feeding processes thanks to the FellowFeed and GuidoFill functions as well as exportable reports as evidence for banks and experts. If faults occur, WELTEC offers operators training and support via remote control. Equipped with this technology and local biomass sources, the projects are exemplary for the economical operation of small biogas plants.



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Organic energy worldwide

Forward-looking statements

Although the forward-looking statements contained in this presentation are based on what the Company's management believes to be reasonable assumptions, there can be no assurance that the forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. The Company undertakes no obligation to update forward-looking statements should circumstances or management's estimates or opinions change, except as required by applicable law. Readers are cautioned not to place undue reliance on forward-looking statements.



Yamagata Prefecture has one of the highest snowfall rates in Japan. Thanks to WELTEC's customised design, biogas plants can also be operated in areas with high snowfall.



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Company Portrait

Since its foundation in 2001, the **WELTEC** Group from Vechta in Lower Saxony, Germany, has been contributing to the success of the energy transition. The specialist has developed into one of the world's leading providers for the construction and operation of biogas and biomethane plants. The group covers the entire biogas value chain, including the design, planning and setup of energy plants, services, sustainable utilization concepts for the output flows and ongoing or temporary plant operation – an area in which it has more than 15 years of experience.

The establishment of individual, technically mature solutions with custom-tailored processes is one of the strengths of **WELTEC BIOPOWER**. Moreover, the use of stainless-steel technologies ensures flexible substrate input, quick and inexpensive assembly and a consistently high quality standard, regardless of the location. Following the go-live, **WELTEC** can take care of the mechanical and biological service in order to ensure efficiency of the plants.

Apart from the entire biogas value chain, the portfolio also covers agricultural trade including transport, farm services and manure utilization. For **WELTEC**, proximity to customers and investors is very important. These include businesses from industries such as agriculture, food, waste and wastewater. With its global sales and service network, the company has already installed more than 400 energy plants in 26 countries on five continents.

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