



Pressemitteilung

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Organic energy worldwide

Vechta, April 2022

Specialist for Biogas at the IFAT in Munich

WELTEC BIOPOWER to Showcase Solutions for Generating Energy from Waste-water and Organic Waste

At this year's IFAT, the world's leading trade fair for environmental technologies in Munich, Germany, WELTEC BIOPOWER will present its efficient digestion procedure for the industry and municipalities. From 30 May to 3 June, the biogas specialist's sales team will be present in hall A4, stand 217, to answer all questions concerning the establishment and upgrade of anaerobic energy plants.

The range includes well-proven procedures from the field of biogas technology. The high savings potential of these procedures is demonstrated by the modernisation of the municipal sewage treatment plant in Bückeburg, Germany, which caters to a population of 33,000. Since the transition to anaerobic sludge stabilisation by WELTEC BIOPOWER in 2021, the plant operation under full load has become much more profitable. As the general contractor, WELTEC was in charge of the setup of the wastewater treatment for the city's sewage treatment plant. Apart from the earthworks, the establishment of the fundament and the electrical wiring, the work comprised the construction of a new static sludge thickener, an engine room for the cogeneration power plant, the control and pump station as well as a stainless-steel digester with a gas storage roof.

Thanks to the anaerobic wastewater treatment, the sludge volume has dropped by 35 percent, resulting in a significant reduction of transport and disposal costs. Furthermore, the produced digester gas can now generate some 465,000 kWh of electricity at full load. The operator is thus able to cover about 40 percent of the power demand and save two thirds of the electricity costs. „In view of the new greenhouse gas reduction targets and the surge in energy prices, an anaerobic stage is an economically attractive solution for wastewater treatment operations, which also benefits from public funding“, explains Jens Albartus, Director of WELTEC BIOPOWER. He adds: „Ultimately, a combination of wastewater treatment, heat and power generation and climate protection enables more efficient operation, especially of small and medium-sized sewage treatment plants.“

A WELTEC plant in Piddlehinton, South West England, demonstrates how these goals can be reached with organic waste. Here, a mix of food leftovers, expired food from supermarkets and biowaste is fed into the biogas plant. Apart from the substrate mix, the technical approach, too, is special. Prior to the feed-in and shredding, an unpacking machine separates the food from the packaging.

Another efficiency bonus: The exhaust heat from the cogeneration power plant is sold to a nearby feed producer, which also uses most of the power. The biogas plant operator supplies the surplus electricity directly to the power grid, thereby generating further income. The digestate from the process is in conformity with the requirements of UK industry standard PAS-100. Therefore, local farmers are able to use it as fertiliser. Following a capacity expansion in 2014 from 20,000 t of substrate input a year to 30,000 t, WELTEC BIOPOWER installed an additional digester and storage tank as well as GasMix mixing systems and a separation unit. A plant with these features would also support a switch to biomethane production.

At the IFAT trade show in Munich (A4.217), the WELTEC experts will be pleased to provide further information on various treatment and biogas technologies.



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Pictures/Captions



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Company Portrait

The **WELTEC** Group from Vechta, Germany, has developed into a globally leading specialist for the construction and operation of biogas and biomethane plants since it was founded back in 2001. The Group designs, plans and sets up energy plants, operates them on a permanent or temporary basis, provides 24/7 service and delivers sustainable usage concepts for output flows, thereby covering the entire biogas value chain.

The establishment of individual, technically mature solutions up to a plant size of 10 MW is one of the strengths of **WELTEC BIOPOWER**. The high proportion of custom-developed components is a key success factor. 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 commissioning, **WELTEC**'s mechanical and biological service plays a significant role in ensuring the plant efficiency.

The company also boasts a wealth of experience in the field of biogas generation and utilisation. The company's nine decentralised plants generate 96 million standard m³ of biogas a year. A portion is processed to biomethane and made available to energy suppliers and petrol station operators via the public gas network. Additionally, at 16 locations in Germany – e.g. in the field of horticulture, housing construction and healthcare as well as communities – the biomethane is used for generating heat within the framework of **WELTEC** energy contracting.

The biogas specialist is well aware of the importance of customer and investor proximity. Accordingly, the Group's sales and service network spans the entire globe. The range of customers includes businesses from industries such as agriculture, food, waste and wastewater. So far, the 120 employees of the **WELTEC** Group have implemented more than 350 energy plants in 25 countries on five continents. All in all, the biogas specialist ensures annual savings of around 530,000 tons of CO₂eq.

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