



Pressemitteilung

Press release · Communiqué de presse

Vechta, February 2020

Producing Biogas from Waste and Sludge

WELTEC BIOPOWER to Present Solutions for Climate-Neutral Energy Generation at IFAT

At this year's IFAT, the world's leading trade fair for environmental technologies, which will be held in Munich, Germany, from 4 to 8 May, biogas plant manufacturer WELTEC BIOPOWER will again present its anaerobic digestion plants for industrial and municipal use. In Hall A4, at Booth 508, the internationally renowned biogas specialists will provide information on all topics concerning the use of organic waste and sludge for the production of energy.

The reference projects for the digestion of waste and the production of biomethane, which is equivalent to natural gas, include the WELTEC plant of the French potato chips manufacturer Altho, whose chips brand Bret's accounts for one third of the French market. Every year, the plant in St. Gérard, Brittany, produces about 1.75 million standard m³ of biomethane from 22,000 t of production waste in the form of potatoes and starch as well as sludge from the internal wastewater treatment plant. This amount of the climate-neutral energy source corresponds to the gas consumption of a town of 5,000 inhabitants.

Altho benefits greatly from the biomethane production, which enables it to use its leftovers in a sustainable manner and cut greenhouse emissions. The annual savings amount to approximately 3,900 t of CO_{2eq}. This corresponds to the emissions that more than 2,000 persons would cause with a flight from Munich to New York.

For the energy plant, WELTEC has implemented process technology that is both innovative and reliable: The mix of solid and liquid substances is first pre-processed and homogenised in order to ensure efficient digestion in the stainless-steel digester. The entire process is fully automated and controlled by a PLC unit. With the help of the membrane processing, the biogas is then transformed into biomethane.

„Custom-tuned biogas technology is a must“, says Jens Albartus, Director of WELTEC BIOPOWER. „Usually, anaerobic digestion plants will only encounter technical problems if the process technology does not meet the requirement profile.“ For this reason, plant operators and investors should opt for a provider who has experience with various substrates and climate conditions. In its projects, WELTEC custom-tailors its plants so as to ensure stable, economic operation. In more than 300 planned and implemented biogas projects in 25 countries, the specialists have gained a wealth of experience with diverse framework conditions.

Regardless of whether sludge, abattoir waste or production leftovers are used as raw material, WELTEC thus guarantees a high energy yield. This is achieved with the right blend of expertise, smart processes and custom-tailored supervision by biologists and engineers. IFAT visitors will be able to get further information on the efficient conversion of organic waste to high-energy biogas and biomethane at the booth of WELTEC BIOPOWER (Hall A4, Booth 508).

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Organic energy worldwide

Pictures/Captions



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Company Portrait

WELTEC BIOPOWER GmbH is one of the world's leading enterprises in the field of stainless-steel biogas plant construction. The company has planned, developed and built anaerobic digestion plants since 2001. Today, the medium-sized company has about 80 employees at the headquarters in Vechta, Germany, and has established more than 300 energy plants in 25 countries worldwide. The global distribution and service network spans six continents. The range of customers includes businesses from the agriculture, food, waste and wastewater industries.

The strength of **WELTEC BIOPOWER** lies in custom-tailored design and technically mature solutions for projects up to 10 megawatt capacity. In this context, the high proportion of internally developed components is a key success factor. The company also owes its leading edge to the use of stainless steel. This enables the input of a diverse range of feedstocks, a fast and economic assembly and a consistently high quality standard regardless of the location.

After a biogas plant goes live, **WELTEC BIOPOWER** offers additional support through its experienced mechanical and biological service team. 24/7 availability contribute significantly to the efficiency of the plant.

Nordmethan, a subsidiary company of **WELTEC BIOPOWER**, addresses another business area: The operation of biomethane plants and the provision of heat through energy contracting. In this way, the **WELTEC** Group covers the entire value chain of energy generation with biogas and biomethane – from the plant construction to the plant operation.

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