



Pressemitteilung

Press release · Communiqué de presse

Vechta, August 2015

Leading Edge with Processing Technology

WELTEC Biomethane Plant in France Launches Feed-in

On 5 August, the „Longchamps“ biomethane plant in the Franche-Comté region in eastern France went live. Thus, 70 standard m³/h are now continually supplied to the natural gas grid of the French gas distributor GrDF (Gaz réseau Distribution France). Plant operator David Peterschmitt uses about 6,000 t of agricultural leftovers a year for the production of biogas from anaerobic digestion.

To ensure effective biogas processing, German plant manufacturer WELTEC BIOPOWER decided to deploy flexible, compact membrane technology. In the three-stage separation procedure, methane is separated from carbon dioxide (CO₂), water vapour and other components with the help of special polymer membranes. The WELTEC membrane procedure is highly efficient and delivers a methane yield of about 99 percent.

The upstream compression is another advantage of the procedure. In this way, the separated methane already has the needed pressure for feed-in to the natural gas grid without being compressed again. This saves costs by eliminating the need for an additional compressor and enables economic use of WELTEC biogas processing even for smaller plants. This processing method also saves money in other areas: The molecules are separated at ambient temperature and without the addition of chemicals. Moreover, the membrane technology stands out with its compact setup in the container, reducing the installation overhead.

To optimise the plant synchronisation, WELTEC integrated the custom-developed LoMOS SPS control. One of the special features of this system is an SQL database-based task management: The user merely needs to enter his individual tasks for the biogas plant in the user-friendly calendar, after which the LoMOS control automatically executes the entries.

In view of the user-friendly operation and high-quality components, the builder and operator David Peterschmitt is very optimistic: „I am convinced that the technologies employed by WELTEC BIOPOWER will ensure optimum efficiency as well as permanently stable, economic operation of my biomethane plant.“

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Organic energy worldwide

Pictures/Captions



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Company Portraits

In 2015, biogas pioneer **WELTEC BIOPOWER GmbH** celebrated its 14th anniversary. To date, the company has planned and established more than 300 plants. Based on the modern approach of experienced engineers and the expertise of its 80 employees, the company from Vechta, Lower Saxony, offers complete biogas plants from one source and has developed into one of the world's leading providers of biogas plants.

In view of the corroding impact of the hydrogen sulphide and ammonia compounds contained in biogas on unprotected parts, WELTEC builds the fermenters from stainless steel, thereby ensuring a long useful life of the plant. Additionally, the manufacturing depth guarantees a consistently high standard regardless of the location and ensures an export rate that is far above the industry average.

The plants have a modular structure. WELTEC BIOPOWER uses only tried-and-tested system components and develops most of the technologies along the entire value chain internally: fermenter technology, mixing technology, control technology, hygienisation systems and digestate processing solutions have been developed in the company.

With its comprehensive services, WELTEC makes sure that its biogas plants are technically and economically stable. The CHP service guarantees stable output, the biological supervision continually monitors relevant parameters, and systematic repowering makes sure that the biogas plant is always up to date. Operators can choose from a range of different service packages.

One of the main strengths of the medium-sized enterprise is its ability to deliver individual and flexible solutions – from compact plants to large computer-controlled plants in the megawatt range, waste recycling plants and biogas parks with gas processing technology.

Méthalac SARL, headquartered in Lyon, France, was founded in 2012 and has been the distribution partner of WELTEC BIOPOWER GmbH in south-eastern France ever since.

Headed by Director Laurent Pauchard, the medium-sized enterprise coaches industrial, agricultural and municipal biogas projects from the evaluation to the implementation. This is always done in accordance with the particular regional, structural and industry-specific circumstances.

The expertise of the young team of engineers and technicians is especially valuable when it comes to question about raw material and smart heat utilisation concepts. The economic efficiency of the plant operation is always the main focus.

In the field of installation, commissioning and maintenance of biogas plants, Méthalac has cooperated with competent network partners like Biogaz Services from Metz-Tessy for many years.

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