

Press Release 06-07

INNOGAS-Symposium sends impulses for environmental protection

Production of bio natural gas from biogas with the BCM[®]-method of DGE GmbH Company Wittenberg

Process development could be completed successfully and documented industrial-scale

On 29th and 30th November 2007, a highly regarded international environment-protection-symposium took place in Dessau. From the 120 visitors were 25 guests from abroad, as Gulf States, Switzerland, Austria, Norway, Brazil and China, which were interested in the new and further developed technology.

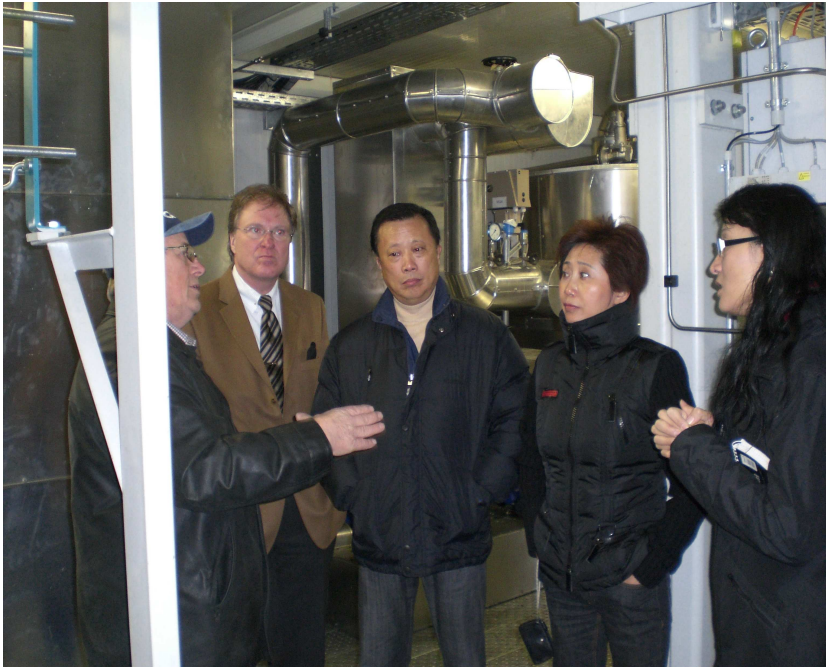
In October 2006 a prototype-plant for the production of bio natural gas/bio methane started continuous operation. In the context of a symposium in Lutherstadt Wittenberg, first results could be presented on 27th October 2006.

By development works of one year, until October 2007, the prototype plant could be optimized so far that this biomethane plant will be the smallest series plant in future. It is now proved that even small plants can process biogas to bio methane economically.

The potential of this development was recognized by MT-Energie GmbH & Co. KG. DGE GmbH Company has issued the licensing rights to MT-Energie GmbH & Co. KG for the construction and sale of plants of the BCM[®]-method for the EU-region and North America. With that the market is served both by DGE GmbH and by MT-Energie GmbH & Co. KG. In the context of the licence contract, an agreement on the construction of a large plant was carried out already in December 2006. After a technical clarification until March 2007, the building of the large plant for a performance up to 600 Nm³/h biogas was carried out parallel to the optimization of the prototype. Delivery date of the plant was on 22nd August 2007 and commissioning on 15th September 2007. This is a record construction time for technical innovations. The results of the current optimization at the prototype were taken into account for building up the large-scale plant. The MT-Energie Company has proved as a suitable partner in the field of biogas plant construction. So the necessary interfaces between biogas plant and biogas purification could be made appropriate.

According to requests on hand at least 10 biomethane plants shall be built worldwide after the method of DGE GmbH company by the end of 2008. With that, more than 200 mio. m³/year shall be processed to natural gas. MT-Energie starts its production in the middle of 2008. The DGE GmbH Company will organize the supply from Saxony-Anhalt and create own capacities for a plant production. Already in March 2008, DGE GmbH will deliver the next biomethane plant to Erdgas Zürich. After that plant deliveries are provided "by the month". The plant business will strengthen the local economic power. The available potential is so high that it cannot be handled without further licence work. From 2008 an "add-on kit" shall be offered for existing biogas plants, primarily in the small range of capacity from 50 m³/h biogas.

It was very pleasant for the INNOGAS-network that Saxony-Anhalt was present in Dessau on every two days. The federal state Saxony-Anhalt has clearly confessed to the new technology. The state secretary of the Ministry of Economics and Employment, Mr Schubert, has personally convinced himself of the high technical standard of this event. Together with his guests from China, he spontaneously decided to visit the large-scale plant in Godenstedt (near Bremen) on the next day.



Organic farmer Brand explains the new technology to Mr Schubert and the chinese experts with enthusiasm. He announces proudly that last week he just received the approval for feeding the produced biomethane into the Chinese have amazed everyone with a spontaneous request.

With representatives from Sulgas company (Brazil), an agreement was obtained for building a bio-gas plant with deposition of methane for the fuel use and carbon dioxide for using it in the beverage industry.

With the new technology a clear contribution is made for handling biogas economically. In the year 2008 the INNOGAS- network, together with Saxony-Anhalt, wants to present the technique to all interested parties. It is for certain that Saxony-Anhalt has a margin of several years with that technology. International showpieces will arise. The chief attraction has only been touched on at this year's event and is presented next year. The INNOGAS networkers work on a new fermenter concept for the biogas production. Higher biogas outputs up to 20% are expected.

DGE GmbH has allocated 3 master theses this week with which technical details will be studied carefully. Later on, the students shall get employed in the company.

Licensing agreements with a partner from Norway are planned this year. A modern energy supply in combination of current and gas gets realized with the BCM[®]-method as a model and without the previous peak load losses. A new technical solution for an international assignment is presented with that. The international gas industry has recognized the key position of the BCM[®]-method and will use the method in its full complexity.