EnviTec Biogas

The BioEnergy Park Güstrow / Germany

Planning

Construction

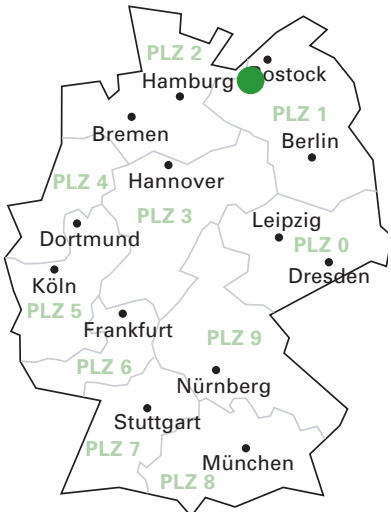
Start-up

Operation

Service

← In the operations buildings the maize silage for mixing is stored temporarily in push floors.

→ In the gas conditioning plant bio natural gas is produced for approximately 50,000 residents.



Fact sheet

Location:	**Güstrow / Germany**
Capacity:	**10.000 m³ Gas/h = ca. 22,000 kW_{el}**
In operation since:	**12/2009**
Input materials:	**Renewable raw materials**
Features:	**World's largest plant for biogas processing in natural gas quality**

The BioEnergy Park Güstrow

The BioEnergy Park near Güstrow is unique worldwide in its dimensions and capacity. On an area of 20 hectares, (approximately the area of 27 soccer fields) biogas is generated here on an industrial scale from renewable raw materials, such as corn, grain, and grass clippings. A combination of particularly efficient plant technology, high overall capacity due to the industrial plant management, and the distributed use of the biogas injected into the natural gas grid make it possible to further increase the overall efficiency relative to small biogas plants.

In the Güstrow biogas park 10,000 m³ of raw biogas are generated every hour, processed to natural gas quality, and injected into the natural gas grid. This corresponds to an installed electrical connected load of approximately 22 MW_{el}. The total plant consists of five modules, each of which produce 2000 m³ of biogas per hour; this corresponds to a capacity of 4.4 MW_{el} for each module. To inject the biogas into the natural gas grid, the biogas is first processed to biomethane in natural gas quality. To do this EnviTec uses pressure water scrubbing. Injected into the natural gas grid, biomethane can, like normal natural gas, be transported over long distances without loss, and can be used directly on site for the consumer.

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