

Biogas plant Brunswick-Hillerse – block heat and power plant

Characteristics:

- Gas engine Pro2- LM 616B12
- Block heat and power plant Deutz TCG 2016B V12
- Fuel: Biogas
- Electrical power: 537 kW
- Thermal power: 452 kW
- Location inside operational building
- Waste heat for process heat supply and building heating
- Power input (electr.) to public grid



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Scope of Work:

- | | |
|-------------------------------------|--|
| - Basic evaluation | - Construction planning |
| - Preliminary design | - Tender procedure and award of contract |
| - Detailed design | - Supervision |
| - Approval planning acc. to BImSchG | - Support of commissioning |

Description:

The biogas plant „Pumpwerk III“ at Brunswick feeds approx. 1,000 m³ biogas per hour to the 20 km biogas grid of the Braunschweiger Versorgungs-AG, where it is converted to electricity in two gas engines with 1 MW_{el.} each.

For heat supply of the fermentation tanks an additional 500 kW_{el.} block heat and power plant will be installed. This will also supply heat to an adjacent machinery/vehicle hall. The generated electrical energy will be fed into the public grid of the local energy supply company acc. to EEG.