



Biogas Regions Shining Example



Biogas plant: Bioenergie Bad Königshofen GmbH & Co. KG Many help a lot.

ltd. partnership with a ltd. liability company as general partner

The biogas plant is a community project consisting of 37 farmers who make up Bioenergie Bad Königshofen GmbH & Co. KG. They supply the plant with exclusively vegetable input material. During planning, one consciously rejected using input materials such as manure or dung so that such substrates would not have to be shipped through the spa town of Bad Königshofen.



Foto: Agrokraft

It is perfectly predestined as a biogas plant site: The heat generated in the CHP is used up to 80% year-round by the nearby Frankentherme (a wellness spa). That amount is being optimised at this time. The Frankentherme, however, can already now cover 50-60% of its heating needs with the heat from the biogas plant to heat Germany's first medicinal mineral water lake along with the adjacent health and adventure pool. This exemplary energy utilisation has already been acknowledged several times.

During the largest German farmer's trade fair, „Eurotier“ 2006, the plant was presented as the "Best Practice Plant", and in 2007 it won the „Rhönschaf“ energy prize, endowed with 10,000 €. Furthermore, Bioenergie Bad Königshofen was even awarded the Bavaria-wide tendered Sonderpreis des Bayerischen Bauernverbandes for the best cooperation.

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key data

Operator	Bioenergie Bad Königshafen
Managing director.....	Mathias Klöffel
Start of Operation	2006; utilization ca. 98% up to today
Type of corporation.....	Ltd. Company & Co KG
Investment costs	2 300 000 €
Planning / Construction.....	MT-Energie

feedstock

Maize.....	9.439 tons per year
Grass.....	1.686 tons per year
Total Vegetable Silage..... (Horizontal silo)	1.130 tons per year

production data

Available area for the output of the biogas fertilizer	380 ha,
Thermal power of the gas engine	670 kW
Electric power of the engine.....	625 kW
Generated thermal energy.....	3,8 Mio kWh/a
Generated electric energy	4,974 6 Mio kWh/a
Heat utilization.....	Frankenthaltherme – Year-round medicinal mineral water lake

Community project with heating concept technical plant description

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Power consumption (electricity) of the plant itself**335.400 kWh**
 Annual delivery of electricity to the (regional) electric grid company
4,9 Mio kWh/a
 Electric grid company.....**E.on**

technical plant description

CHP.....**Jenbacher 625 KW**
 Submersible motor agitated mixer.....**3 ea. per fermenter**
 Operating time per day.....**ca. 2,5 hrs.**
 Operating temperature.....**40°C**
 Residence time in the digester~ **80 days**

For further Information, please visit:

<http://www.mt-energie.com/de/biogasanlagen/referenzen.html>



Sebastian C. Dürr
 Economic development corporation district Schwäbisch Hall
 Haller Straße 29/1
 74549 Wolpertshausen, Germany
duerr@wfgsha.de

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