

## Biogas plant „Gehrung“ Ltd. liability company as general partner

The little farm proves itself to be a waste disposer of the region for the most part and provides good organic fertilizer. The plant works well without a lot of assistance. It has no specific components requiring special supervision. Regarding the averaged feeding there is actually still a space for increasing the substrates. The population that lives within spitting distance to the biogas plant does not complain about the noise or about the odeurs of the plant.



Biogas plant Gehrung

Farming activities: Dairy cows + offspring, arable land, permanent grassland

### key data

Start of Operation .....	<b>2006</b>
Type of corporation.....	<b>Ltd. Company &amp; Co KG</b>
Investment costs .....	<b>500.000 €</b>

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# Biogas Regions Shining Example



## feedstock

Food leftovers .....	<b>1.100 tons per year</b>
Maize.....	<b>740 tons per year</b>
Grass silage.....	<b>640 tons per year</b>
Liquid manure and dung.....	<b>700 tons per year</b>
Offcuts of farming.....	<b>500 tons per year</b>

## production data

Available area for the output of the biogas fertilizer .....	<b>75 ha own land, rest is picked up</b>
Thermal power of the gas engine .....	<b>1,0512 Mio kWh/a</b>
Electric power of the engine.....	<b>875.000 Mio kWh/</b>
Generated thermal energy.....	<b>788.400 kWh/a</b>
Utilisation of heat .....	<b>For the sanitation (70°C), houses and biogas plant, nearly all thermal energy is used</b>
Generated electric energy .....	<b>650.000 kWh/a</b>
Power consumption (electricity) of the plant itself .....	<b>30.000 kWh/a</b>
Annual delivery of electricity to the (regional) electric grid company	<b>609.000 kWh per year</b>
Electric grid company.....	<b>EnBW</b>

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## technical plant description

Digester .....	<b>800 m<sup>3</sup></b>
manufactured by Weltec Biopower GmbH, stainless steel	
Mixing: propeller mixers Mixing vessel liquid manure	
CHP by AVS Aggregatebau GmbH, gas engine, 100 kW <sub>el</sub>	
Pasteurisation of food leftovers	
Fermenter.....	<b>950 m<sup>3</sup></b>
Final storage.....	<b>1.200 m<sup>3</sup></b>
Operating temperature.....	<b>40°C</b>
Residence time in the digester .....	<b>68 days</b>
Average expenditure of human labour .....	<b>1,5 hours per day</b>



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