

Specification of the plant:**Algermissen**

Designer and manufacturer of the plant:

MT-ENERGIE GmbH & Co. KG
Vor dem Seemoor 1
27404 Rockstedt / Germany

Commissioning:

December 2005

Project:

Bioenergie Algermissen

Operation:5 farmers, production on own surfaces plus contractual cultivation
In 2006, among other things cultivation of 50 ha sunflowers**Biogas plant:**600 kW_{el} power
two-stage plant with gas-tight storage container
100% of the gas yield through input of plants
Feeding: Maize silage, rye, wheat silage**Technical data:**

Direct solid feed:		Screw conveyor system for feeding the biogas plant with solids
Fermenter:	Ø = 23 m H = 6 m	Reinforced steel container with air supported foil covering with gas collector; usable volume: 2,493 m ³ gross
Secondary fermenter:	Ø = 23 m H = 6 m	Reinforced steel container with air supported foil covering with gas collector; usable volume: 2,493 m ³ gross
Residue storage tank:	Ø = 27 m H = 6 m	Reinforced steel container with air supported foil covering with gas collector; usable volume: 3,435 m ³ gross
CHP:	P = 600 kW _{el} P = 1,534 kW _{FWL} V = 232 m ³ /Bh T = 450°C	Electric usable power Thermal heat output Consumption of biogas Temperature of the flue gas Manufacturer: SEVA Dual fuel engine
Achieved daily production:	W = 560 kW _{el}	Yield from the first quarter