

Biogas Plant WIESENAU II



Location	Wiesenaus, Germany
Construction Period:	2007
Input substrat:	Cattle liquid manure, cattle manure, cereals, corn silage, GPS
Fermenter:	Steel tank 4,300 m ³
CHP	Gas engine 2 x 526 kW
Special Features:	Extension of an existing biogas plant, gas holder at secondary digester and final storage tank, mesophilic operation
Cost:	Approximately EUR 2,5 Million

The second biogas plant WIESENAU II is operated by Bauerngesellschaft Ziltendorfer Niederung GbR, like the first biogas plant in Wiesenaus. WIESENAU II is not identical in construction to WIESENAU I, and covers nearly the double digester volume. Therefore the digester is constructed as a concrete tank, and not a reinforced concrete digester like in WIESENAU I. Additionally, WIESENAU II is suited with two CHP-engines with 526 kW_{el} capacity each. This second plant, feeded by renewable raw materials, is also operated at single-stage, mesophilic conditions. The automated, quasi-continuous feeding of solid input substrates is realized by a side-mounted pressure piston and the liquid manure has a separate input via a pumping system. The plant consists of a central-stirred digester, a secondary digester and a final storage tank, both suited with double-layered gas holder roofs. The produced electricity is passed into the regional public grid and paid according to the EEG. Besides the external use of heat for the buildings, an optional external heat use for drying of wood is considered. At the end of 2007 the start-up of this second plant took place.