

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 Mio.

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