



The biogas plant in Kecskemét (Hungary)

Planning

Implementation

Commissioning

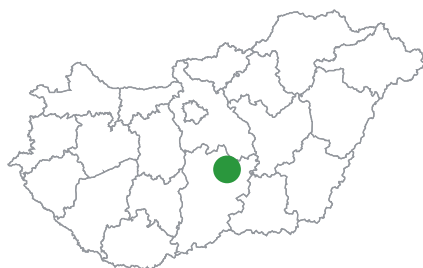
Operation

Service



← Mixing of each raw material occurs in a mixing tank located in the technology building.

→ It is provided with a transom window and overpressure protection.



Fact sheet

Location:	Kecskemét / Hungary
Capacity:	635 kW_{el}
In operation since:	5/2011
Input materials:	pig slurry, cow manure, cannery waste, slaughterhouse waste, corn silage
Features:	power for research purposes with experimental digester, training facility

The biogas plant in Kecskemét (Hungary)

Agrowatt Kft. was founded in 2006 to handle and utilise agricultural and food wastes and support R & D activities, aiming to develop and enhance the use of alternative energy. The company has successfully tendered for the construction of a biogas research centre within the frameworks of the EEA Norway Grants, thus opening the opportunity of establishing a procured biogas centre by one of the sources of experiments and educational activities.

A single-stage, mesophilic fermentation takes place in the power plant of the research centre. The delivered slurry is stored in a 500 m³ layered tank. After hygienisation the tankage reaches the plant, while the raw plant materials reach it by means of a sliding floor. After the intake, the indi-

vidual raw materials are mixed in the tank, which is located in the technological building, where the resulting mixture reaches the digester.

The central construction work of the plant is the 3000 m³ digester. The fermentation of organic raw materials takes place here in the mesophilic temperature range, namely at 36 to 38°C. Below the digester there is a experimental digester, where various combinations of raw materials might be tested. The residue emerging from the digester are stored in concrete residue storage tanks until the weather or the vegetation is suitable for transporting them to arable land. The extracted biogas drives a gas engine with a nominal capacity of 635 kW_{el}, which produces electricity by means of a generator.