



The biogas plant AGRIVALOR ENERGIE in Ribeauvillé (France)

Planning

Implementation

Commissioning

Operation

Service



← Hygienization unit:
The biomass which requires hygienization is heated till over 70 degrees Celsius and kept at that temperature for over an hour.

→ Delivery of restaurant waste which is processed in the biogas plant.



Location:
Capacity:
Being operated since:
Input materials:

Point of note:

Fact sheet

Ribeauvillé / France

1 415 kW_{el}

01/2012

Farm effluents (dung and liquid manure), effluents from cheese fabrics, agricultural and viticultural biomass, bio-waste resulting from the catering facilities of communities and organizations, organic food-processing waste
More than 65% of the thermal energy produced by the cogeneration plant is used by the spa and leisure complex of the Lucien Barrière de Ribeauvillé Casino.

The biogas plant AGRIVALOR ENERGIE

The project was initiated by 3 farmers from Alsace: René Van der Meijden, Philippe Meinrad and Noël Adam. It took place under the aegis of the Agrivalor Energie society.

The idea of constructing a methanization plant arose as a natural step in 2007, since the production of biogas was then incorporated into the long-term activities of the Agrivalor society, which specializes in the agronomic usage of organic matter (use of composting facilities and commercialization of organic fertilizers), the treatment of organic waste, and fuel wood (sale of chippings and pellets for boilers). The farmers looked after the project right from the formulation of the permission application dossier. They decided to assign EnviTec Biogas in 2009, since the proposed offer best met the expectations of the contracting party. As well as treating agricultural effluent – namely dung and liquid manure – the plant needed to be able to treat agricultural by-products, organic waste from the agricultural food sector, and bio-waste.

The plant comprises the following facilities and systems:

- One storage facility for solids
- Three reception tanks for liquids
- One 80 m³ vertical mixer for the reception of heterogeneous input materials
- One hygienization unit for animal by-products with cooling
- One deconditioning unit for organic waste
- One 750 m² building
- Two 4,000 m³ digesters

- Two recirculation units
- One digestate storage tank with 5200 m³ capacity, second digestate storage tank with 7000 m³
- One 1,415 kW_{el} cogeneration plant
- Biogas treatment by active carbon filter
- Catalyst for CHP exhaust

The production of electricity began in January 2012. All produced electricity is sold back to EDF. The renewable heat is used to heat the inside of the digester and to keep its internal temperature at 37°C, to heat storage tanks for greasy products, to supply the hygienization unit and to provide a spa and leisure centre with hot water. Moreover, the heat is used to supply a cheese fabric and to dry fodder.

The input materials come from various sectors:

- Agriculture: livestock manure, cheese-making effluents, viticultural by-products and collected secondary crops
- Communities: catering bio-waste
- Companies: supermarket wastes
- Agricultural food sector: greasy waste from food processing industries

The plant is extremely flexible and offers significant opportunities for utilizing organic matter. Therefore AGRIVALOR has become a reference in France as a typical « Waste to Energy » plant, which is regularly exposed in French media.