

Bachelor-/Master Thesis

Economic Assessment of Biogas Production

■ Organizational aspects

The thesis can be written in **English** or **French**.

■ Motivation and objectives

The anaerobic digestion has become a promising technology for organic waste treatment. Anaerobic digestion offers an environmental friendly way of treating organic waste and produce, additionally, biogas that can be used as a renewable energy source. The production yields of anaerobic digestion are highly affected by temperature fluctuations in its surrounding environment. A research team of LRGP developed a model to simulate the heat transfers in semi-buried anaerobic digesters and recommend technical solutions to reduce heat losses in anaerobic digesters.

■ Content of the thesis

At first, you will develop a flow sheet diagram of the anaerobic digester investigated by LRGP. You will model the interface to integrate the results of the heat transfer model. Afterwards, you will develop an economic model to evaluate the economic impacts of the heat transfers caused by the external effects. This thesis will be supervised by LRGP in Nancy and DFIU in Karlsruhe. The student will be allowed to stay in Nancy for a certain period. The actual duration of the stay abroad will depend on the student's willingness to travel.

■ Requirements

Interest in economic studies and French-German cooperation, reliability, commitment, and pro-active attitude

■ Duration

3 to 6 months

■ Please contact

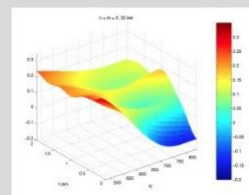
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