



In General

The first dry digester has been installed in Lithuania and will be there until the end of September 2013. This time shall be used to convince the Lithuanian responsible and professionals who are capable to initiate change, that this technology is a feasible solution for specific challenges in Lithuania.

To discuss these aspects, 19th of June 2013 stakeholders of Western Lithuania had been invited to participate at a start up meeting, to get brand new information from the implementation team.

More than 15 experts from regional organisations and companies participated in a very active and engaged way.

One result of the discussions and the workshop was, to deliver a monthly newsletter in which the development of the pilot plant and the actual results of project activities are mentioned.

ABOWE in Lithuania

Pilot plant in Operation

Objective of ABOWE is the transfer of knowledge, focusing on specific challenges in terms of biogas utilization in the Baltic Sea Region (BSR). Therefore a pilot plant is operated in three BSR-countries - the first is Lithuania - , with the aims:

- to train potential future biogas plant operators
- to use dry digestion application for biowaste to-energy concepts
- to face the challenges of on-site regional conditions
- and to develop solutions to existing challenges in the addressed region.

The pilot plant is downscale of existing biogas technology, which is 100% correlated to the operation principles of a full scale plant. It is equipped with all required on-site measurement equipment for process assessment.



The pilot plant in Daukšys family farm

The pilot digester's volume is 600 liter with a maximum daily gas production of 2m³ methane, whereas a full scale plant can produce a volume of 10.000 m³ methane.

The gas is utilized for a kitchen stove (v. next page) or heating system (option for wintertime). Note: Pilot B is a process simulation pilot plant, it has not been designed for autonomous energy production!



Prof. Ahrens (2nd from left) explaining the function of the fermenter

Portrait of the operator

Vygintas Daukšys is the responsible engineer for the operation

Vygintas Daukšys is Master of Maritime Transport Engineering. He works at the air pollution from ships research laboratory of Klaipeda University as a researcher. He has been trained in Germany by the experts from the German Ostfalia University of Applied Sciences.

He made it possible that the plant could be situated on his mother's farm and he is responsible for the operation of the plant. This includes analysis, feeding and trouble shooting. The ABOWE team thanks him and his family for their extraordinary engagement.





Events

24th of July official invitation for all experts to visit the pilot plant

17th of September Investor Event

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First public presentation

Start up stakeholders meeting in Klaipeda

On invitation of Prof. Olga Anne, the first stakeholder meeting took place. The objective was, to involve at a early stage the responsible experts who are capable to initiate changes in Western Lithuania. More than 15 people participated, they came from local and regional administration, from the regional environment protection agency, students and researcher from the university, farmer and operator of the wastewater treatment plant in Klaipeda.



Prof. Olga Anne (2nd from left) in discussion with stakeholders

After presentations from the international project partners the participants generated ideas and questions regarding the project. The results had been intensive discussed and several ideas for the next steps regarding the pilot plant had been formulated.

The atmosphere was open and the participants showed, that they as experts are seeing attractive possibilities as well as concerns and open questions in the technology of anaerobic digestions.

All people who are interested in getting more information about the pilot plant and the ABOWE project in Lithuania are kindly invited to visit the pilot plant, our web site and to contact Olga Anne or Vygintas Daukšys.

Next steps

Scenarios for the pilot site

As a result of the above described discussions following Scenarios will be examined. Anaerobic digestion of:

- cattle manure
- manure and waste from bioethanol distillery
- manure, waste from distillery and schools and children gardens food waste

To get an on-sight impression of the placed plant everybody is kindly invited to visit the pilot plant, either at 24th of July or at another date. For separate visiting date please contact the responsible operator Vygintas Daukšys.

