

Compiled application test report

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In the EuroSlam project a total of twelve different application cases for biogas have been analyzed by the four partners in the project.

The general requirements for cost-effective production and use of biogas have also been analysed and it has been found that the local and national contexts for biogas production and use are very important for the cost effectiveness of this type of venture. All-in-all conditions in Sweden are more favourable than in Lithuania, where capital and the necessary market for biogas are lacking.

Two cases turned out to be successful and all of the three Swedish project partners have joined a cooperative agreement that makes it possible for them to build facilities for biogas production or to enter into some other type of cooperation. One of these successful cases involved cooperation between the Municipality of Höganäs and the metal powder company Höganäs AB where the municipality now delivers biogas to Höganäs AB and the company supplies hot cooling water from its hydrogen production back to the municipality. The other concerned cooperation between five small municipalities in order to jointly produce biogas from sludge from the wastewater treatment plant.

The other nine cases that have been analyzed were not feasible. The last of the successful cases above involved two of the partners. This means that all three Swedish partners successfully solved the problem of taking care of its sludge through the production of biogas. In Lithuania, due to the very high investment in a biogas plant and the comparatively small volume of gas that it would produce, it turned out that biogas production is no realistic solution to the sludge issue.

The success in finding viable opportunities to produce biogas from the sludge produced by all three Swedish municipalities makes the project highly successful.