

## **Integrated biogas-planning in municipalities**

The purpose of this project is i) to further develop planning methods and tools for the localization of biogas plants, ii) to produce knowledge of the consequences of various planning choices related to localization for transport and environment, and iii) to identify institutional possibilities and constraints for the inclusion of biogas in the energy supply and for integration with planning for other sectors.

Transition of the energy system towards renewable energy is high on the political agenda in Denmark and Europe, cf. the Green Growth Strategy, the Danish Resource strategy for waste and the Renewable Energy Directive. The government has supported this policy by establishing a biogas task force and a secretariat to support the transition by examining barriers, technical solutions etc. From 2013, the municipalities have been required to identify and designate localities for potential placement of biogas plants, and a mobile task force has been established to support this planning task. The biogas expansion is meant to utilize a larger share of the animal slurry, hence focusing on municipalities with large animal densities.

The project aims to investigate localization scenarios for biogas which includes alternative resources (household waste), different plant sizes and trans-municipal resource allocation, and the consequences for transport and environmental aspects.

This approach would require inter-municipal coordination and collaboration, and the project will also investigate how existing institutional structures and mechanisms may support or constrain a development in this direction, and which barriers are important to address in the future.

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