





The industrial symbiosis in Kalundborg is organized around the coal-fired power station. Production at this power station has been scaled down. A process has been started to identify alternative renewable energy sources to coal. This process of greening the symbiosis requires integration between the companies involved in the industrial symbiosis and the renewable energy base in the region. The region is primarily agricultural, with a concentration of industries in the municipality of Kalundborg. The renewable energy base is therefore associated with agricultural by-products and industrial by-products.

The alternatives to coal include biogas fermentation of industrial waste and agricultural by-products as well as straw and wood chip boilers.

The project Bioenergy Promotion 2 has assisted this greening process by generating data on waste flows between, and greenhouse gas emissions from, the companies involved in the industrial symbiosis. This data has been fed into the transition process.



Picture: pipes in the industrial Kalundborg industrial symbiosis

Furthermore, the project has generated data about local and regional bioenergy resources. The Danish Bioenergy Promotion team has compiled information and data about locally available biomass resources from agriculture, industry and forestry in the region and in the three municipalities. This data has also been fed into the transition process.

Additionally, the project has identified potential technological conversion routes for the greening of the industrial symbiosis in collaboration with local stakeholders. This work included suggestions for a new design for the local energy system in the industrial symbiosis.