



Bio2G

NER300

The project

Technology category: Bioenergy

Location: Municipality of Landskrona, Skåne, Sweden

Max. NER 300 funding: EUR 203.7 million

Final investment decision: June 2018 (estimated)

Entry into operation: June 2020

State of advancement

The basic design or pre-FEED (front-end engineering design) work has been concluded. Additional testing to further confirm the technical design has been performed and is being analysed.

Outlook for coming year

The planned major steps for 2017 are to update public consultations and prepare for environmental permit according to the Environmental Code at a selected site.

Outlook for coming 5 years

2017: Preparation and submission of major permit approvals. FEED preparation and execution

2018: Final investment decision and EPC contracting. Construction at site starting

2018-2020: Main construction and erection

2020-21: Construction complete, commissioning and start of operation at reduced load, optimisation

Project sponsor

E.ON Biofor Sverige AB

Project summary

Bio2G is a project aiming for a commercial production of 200 MW renewable gas of natural gas pipeline quality for injection in the Swedish gas grid. Raw material is mainly forest residues from fellings and sawmills, with a possible addition of bark, stumps, fuel wood, recycled wood and short rotation wood.

The use of the renewable gas is the same as for natural gas but the fastest growing market is as fuel for vehicles.

The method of the gas production is pressurized fluidized bed gasification using oxygen as an oxidant. Gas cleaning is performed by breaking down long hydrocarbons chains, i.e. tars in a tar reformer at elevated temperature.

The resulting clean gas is converted to methane (the largest component in natural gas) in adiabatic reactors. Excess heat and steam from the process is utilized to provide electricity for the plant and district heating to a district heating grid, thus securing a high overall energy utilization.