

European Green Cities Network

International Conference in Děčín on 15th of June 2005

Abstract to the presentation „Biomass experience - utilization of sorrel“

From Ing. Ust'ak PhD – Research Institute of Crop Production – Chomutov
From Ing. Kfm. Dir. Arne E. Jørgensen – Danish International Consulting

The population is growing in more parts of the world – and the same is demand for energy for different things – production – transport – heat and electricity.

The resources in the world for the well known energy resources as oil – and gases will be divided for more places – and for the best price.

Therefore it is very urgent to use more and more renewable energy sources – and also to produce some of these ourselves. One of this is Sorrel. A quick growing crop – and with an acceptable yields. We can use sorrel for heat – and for production of electricity in the future.

During the presentation – we will hear about this crops – how we can use this for heating – and some of the equipment for production of heat in a smaller scale.

Energy crops – not only sorrel – can be a new product for the farmers – and here in Europe – and accepted from European Union – there are subsidies for this crop, also if the crops are growing into “ non growing fields “ or fallow fields. We need to have our attention of renewable energy in the commend years. The situation will surely change from central huge power plants to decentralized smaller power station – perhaps down to very small units for single houses. Here we can use the energy crops, so it can be a part – and part for “ European Green Cities Network “ corporation.

Dr. Ustyak will present the crop, sorrel – tell about the yields – how to handle the crop from seed to harvesting. Show tables – where fertilization are shown in relation to yields

Also overview over the fields and possibilities in Czech Rep. Comparing with other renewable energy crops and plants. Perspective for Sorrel and the demand for this. Some slides will support the presentation as well pictures.

But Dr. Ustyak`s more than 12 years experience can be usefully.

The Research Institute in Chomutov have worked out more reports – and have done many research for crops.

Ing Arne E. Jørgensen present shortly by slides the situation for rules and best practice for equipment to burning biomass – general experience for wood and for straw and present the sorrel situation - also a slide about how to move the attitude by population for other fuels than usual – and the situation for CO₂ Emission in the world up to 2030.

Organization of farmers for operate heating plants and deliver fuels to the heating plants.

Price situation for Denmark – Examples of different sort of smaller heating plants plus an example of a biogas plant – where sorrel up to 50 % can be a source for the biomass input in the reactors.

Dr. Ustyak - Ing Arne E. Jørgensen