

Study tour EREN: Short description. RES-e Regions PROJECT

Date & location: 8-12 november, 2005. Västtra Götaland (Sweden)

Organiser: EREN-Swedish Energy Agency

Number of Participants: 16

Background

A study tour for Castilla y León energy business was organised by EREN with CARTIF collaboration.

Aim:

The aim of the study tour was the co-operation and transfer of technology between Castilla y León and Västra Götaland.

Programme:

The study tour was led to some RES-e installations round Västra Götaland region. Some of them are:

The biomass CHP plant in Mark municipality:

Wärtsilä Biopower Oy has supplied a biomass-fired CHP power plant to a municipality owned utility, Marks Värme AB, in West Sweden. The plant started energy production at the beginning of 2005 and the total investment is about 9 million €. The heat is supplied to the town of Kinna and some industrial facilities.

The plant has a power output 3.5 MWe and a thermal output of 16 MWth, the latter comprising 12.5 MWth generated by back-pressure steam from the turbine and in addition 3.5 MWth is recovered from the flue gases by a flue gas condenser. The fuel is a mixture of local forest and sawmill residuals. The moisture content of the fuel can be as high as 60%.

The Rya CHP plant in Borås.

The plant has two fluid bed boilers with a capacity of 20 MW each. The boilers, fired with household and industrial waste, recycled wood and biofuels, produce superheated steam for generating electricity and district heat. The boilers are designed for optimum efficiency, minimum emissions and high availability.

In addition the plant has two older 70 MW biomass fuelled boilers. The total capacity of the entire Rya plant is 180 MW. Connected to the waste and biomass boilers are steam turbines and generators with a total electricity output of 45 MWe.

Results:

Some machinery manufacturers, engineers, machinery distributors, consultants from Castilla y León have got in contact with the visited companies in Västra Götaland.

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The study tour participants



The CHP plant in Mark



The Rya plant in Borås



Article on the visit