

Small hydro power seminar

06.05.2010 Trondheim

NTNU welcomes you to an international conference on Small Hydro Power plant Development.

Background

NTNU participates in an EU-project called **S.M.A.R.T.** together with institutions in Italy, Croatia, Greece and Austria, which also will be represented at the seminar 06.05.2010.

The SMART proposal address to important barriers for the expansion of small-scale hydro electricity production in Europe: the lack of suitable support methodologies and tools able to create a clear view of the mini-hydro potential in the territory, the complexity of the legal/administrative processes to obtain concessions, the economical/financial attraction of private investors.

The main objective is to give clear contributions to pull down these barriers, as helpful tools for European, national, regional and local authority decision-makers for increasing the implementation of small-scale hydro electricity plants. We will define policies, methodologies & tools to improve water resources management, to better communicate, disseminate opportunities to investors, and to increase the interest of stakeholders to invest in small scale electric plant. 5 representative regions in the partner countries will serve as learning areas about strategic actions. A mix of disseminating tools, website, contact points, publications, meetings and workshops will be carried out.

Aim

The conference aims at gathering representatives working with and influencing on small hydro power development. Consultants, suppliers, power companies, stakeholders and local public authorities are welcome.

The aim is to give a general overview of the small hydropower development, mainly focusing on technical challenges.

S.M.A.R.T: Strategies to promote small scale hydro electricity production in Europe.

Program:

The conference will consist of plenary sessions with lectures. There will be demonstrations of model turbines and participants are welcome to have stands in the Hydro Power laboratory.

09.00 Registration and coffee at the Waterpower Laboratory
10.00 Lectures part 1 in Kjel5
11.30 Lunch
12.00 Demonstration of Pelton and Francis turbines in the laboratory
13.00 Lectures part 2 in Kjel5
14.20 Break
14.40 Lectures part 3 in Kjel5
16.00 Finished

Stands:

Hydroenergi
Brødrene Dahl
Small Turbine Partners

Registration fee: None

Venue:

Waterpower Laboratory, NTNU, Alfred Getz vei 4, Trondheim

Contact persons:

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Speakers

Marco Antoniazzi,
Province of Cremona, Italy

S.M.A.R.T: "Strategies to proMote small scAle hydro electRicity producTion in Europe"

Trond Ryslett,
Association of Small Hydro Power Plants (Småkraftforeninga)

Association of Small Hydropower Plants and Small Hydropower Plants in Norway

Håvard Hamnaberg,
Norwegian Water Resources and Energy Directorate (NVE)

Norway's small hydro licensing process

Zvonimir Guzovic,
FSB, Croatia

SHP plants in Europe: Handbook on Administrative Procedures Requested

Geir Brænd,
Sweco

Small Hydro Power - Electromechanical equipment – A brief Introduction

Astrid Petterteig,
SINTEF

Grid connection challenges

Reinert Sannerud,
Small Turbine Partner

The Manipi Project in Indonesia

Frode Tryti Olsen,
Entreprenørservice A/S

Raise Boring: Applications for Small Hydropower Projects

Peviani Maximo Aurelio,
ERSE, Italy

Informatic tools to support small hydropower plants implementation

Ole Gunnar Dahlhaug,
Waterpower laboratory, NTNU

Numerical tool for SHP plants

Øyvind Andresen,
Waterpower laboratory, NTNU

Excel Profitability estimation tool for planning of small hydro power plants

Leif Lia, NTNU,
Department of Hydraulic and Environmental Engineering

Main challenges in SHP intakes