

INTERDISCIPLINARY WINTER AND SUMMER SCHOOL ON ENERGY SYSTEMS IN AUSTRIA AND THE CZECH REPUBLIC

February 2006 – July 2006

The idea for this Winter and Summer School has arisen through an intense co-operation of Czech and Austrian energy experts since 2002.

The joint Czech-Austrian Energy Expert Group (CZ-AT EEG) group was appointed by both governments at the end of 2002 to establish the so-called "Energy Partnership" mentioned in Chapter III of the "Protocol on the Negotiations between the Czech and the Austrian Governments, led by Prime Minister Zeman and Federal Chancellor Schüssel, with the Participation of Commissioner Verheugen from the EU" signed on December 12, 2000 in Melk, Austria.

The aim of this group is to jointly study the problems of energy supply and consumption and sustainable development in both countries. It consists of a number of energy experts from different Czech and Austrian universities and institutes. The CZ-AT EEG is convening at regular meetings both in Austria and the Czech Republic and is jointly working on energy projects of mutual interest.

Following major CZ-AT EEG activities have already been organized:

- *In March and April 2005 the exhibition "Building for the future" and a symposium with building experts and architects from Austria and the Czech Republic was organized in the exhibition rooms of the Charles University in Prague.*
- *The final reports of the jointly Research Papers in 2004 are currently being published in a book "Energy for Sustainable Development" by the Charles University. More information about the CZ-AT EEG can be found on <http://www.energy-europe.net>.*

In the future, the CZ-AT-EEG plans to develop further the cooperation in form of common research projects and as common research center.

The aim and content of the Winter and Summer School

The Winter and Summer School is a way for students to get to know the situation on energy and environment in Austria and the Czech Republic in the European and global context. Therefore, Winter School will be organized in Graz, Summer School in Prague. The time in between will be used to work on jointly seminar papers where an Austrian and a Czech student will analyse the situation in their home country and put it together in one paper and its presentation at the Summer School.

The participating students come from different universities: University of Graz, Graz University of Technology, University of Economics Prague and Czech Technical University in Prague. The courses provided are focused on master students. It is envisaged, that the common papers will be further developed in diploma thesis and dissertations.

The activities will be organized by the home universities. For the Winter School in Graz Stefan Schleicher will be coordinator, Jirina Jilkova for the Summer School in Prague. The students will get a certificate for the participation in this seminar. Our intension is to get ETCS-points for it. The mark will be given by the quality of the seminar paper and active participation in the classes and lectures. They will further get assistance to apply for a scholarship for jointly master thesis going on with seminar topics. The organizational issues are managed by Michaela Ouředníková and Christian Steinreiber.

WINTER SCHOOL in Graz

Date: February 12 to 18, 2006

**Place: Wegener Center for Climate and Global Change
University of Graz (WegCenter/UniGraz)
Leechgasse 25, A-8010 Graz, Austria**

Day 1 (February 12):

Arrival day

Arrival in Graz in the afternoon

Evening activity for Czech students

Day 2 (February 13):

Lecture: Introduction and political framework for Energy Systems

Morning:

(Stefan Schleicher), Jiřina Jílková, Christian Steinreiber

The Energy Policy of the Czech Republic and of Austria in a European Perspective

Afternoon:

Getting to know each other: sightseeing tour through Graz

Day 3 (February 14):

Lecture: European Energy markets

Morning:

Reinhard Haas

Introduction in Energy Economics

Liberalised energy markets in Europe: new opportunities and threats

Afternoon:

Visit of the Energy Exchange in Graz

Day 4 (February 15):

Lecture: Energy efficiency in buildings and promising new technologies

Morning:

Wolfgang Streicher

Energy Efficiency, Renewables Energy Carriers and New Technologies in Buildings

Afternoon:

Visit of the Technical University Graz and presentation of interesting technologies (biomass, etc.)

Day 5 (February 16):

Lecture: Energy Supply: fossil fuels vs. renewables

Morning:

Jaroslav Knápek

Potential of different energy sources

Support schemes for renewables

Afternoon:

Excursion to low-energy buildings in Graz and meeting with the Environmental Office in Graz.

Day 6 (February 17):

Excursion

Visit of Solar City Gleisdorf, KWB (Austrian biggest biomass boiler (wood chips, pellets) producer) and Biomass CHP plant in Güssing, the end could be a solar wine cooling place in a winery in southern styria (very good for wine tasting and really nice landscape).

Day 7 (February 18):

Leaving day

SUMMER SCHOOL in Prague (Preliminary Program)

Date: July 9 to 15, 2006

Place: Czech Technical University in Prague
Zikova 2
Prague 6, 166 29
Czech Republic

Day 1 (July 9):

Arrival day

Arrival in Prague in the afternoon
Evening activity for Austrian students

Day 2 (July 10):

Lecture: Energy supply and demand: a comparative analysis

Morning:

Stefan Schleicher and Jiřina Jílková

Comparative Analysis of energy supply and demand and energy intensity in selected EU countries

Afternoon:

Presentation of the seminar papers/ part 1

Day 3 (July 11):

Lecture: Environmental Policy Instruments

Morning:

Jiřina Jílková

Tradable Permits and Energy Taxes as Drivers for Innovations in Energy Sector

Afternoon:

Presentation of the seminar papers/ part 2

Day 4 (July 12):

Lecture: Low cost options for energy savings

Morning:

Wolfgang Streicher

The EU Directive on the Energy performance of Buildings and its impacts

Afternoon:

Presentation of the seminar papers/ part 3

Day 5 (July 13):

Lecture: New markets in energy sector

Morning:

Jaroslav Knápek

Biomass as Renewable Energy Source

Afternoon:

Economic Effectiveness of RES-E projects – keys example of sample calculation

Day 6 (July 14):

Excursion

Visit in the Institute of Botany, Academy of Sciences of the Czech Republic, Průhonice

Day 7 (July 15):

Leaving day

Project team:

Stefan Schleicher (S) – professor at the University of Graz

Jiřina Jílková (J) – professor at the University of Economics in Prague

Other lecturers (L):

Wolfgang Streicher (professor at the Technical University Graz),

Jaroslav Knápek (associate professor at the Technical University in Prague),

Reinhard Haas (professor at the Technical University Vienna)

Participating students (ST)

The project team will cooperate closely with professor Ivan Wilhelm and professor František Janouch (head/member of CZ-AT-EEG).

Stefan Schleicher and Jiřina Jílková will have assistants who have already worked for the CZ-AT Energy Expert Group for the last years (Christian Steinreiber and Michaela Ouředníková).

Time table:

January 2006:

Nomination and selection of qualified students (S, J in cooperation with L)

February 2006:

Finalization of the final Winter School program, elaboration of a seminar handbook for the students (based on former project reports of the CZ-AT EEG) (S, J)

Winter School in Graz (provisional program see attached) (S, J, L, ST)

March-June 2006:

Preparation of the seminar papers with support of the energy experts (ST, L, S, J)

July 2006:

Finalization of the final Winter School program, elaboration of a seminar handbook for the students (based on former project reports of the CZ-AT EEG) (S, J)

Summer School in Prague

Presentation of the seminar papers