

Interdisciplinary Bilateral Summer School on Energy Systems in Austria and the Czech Republic 2019

Final Report

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Aim and content of the (Winter and) Summer School 2019

The Czech-Austrian Energy Expert Group (CZ-AT EEG) was established in 2002 by the Austrian and Czech Governments to jointly study the issues of energy systems in both countries. The members of this group, appointed by their governments, are affiliated with Czech and Austrian universities and institutions. The Czech-Austrian Energy Expert Group is based on bilateral cooperation on sensitive issues in the field of energy contributing to shaping future energy policies in both countries and across the EU.

The established partnership and cooperation between Czech and Austrian energy academic experts led to the idea to organize the Winter and Summer School on Energy Systems in Austria and Czech Republic. Because of the administrative problems the costs for the winter part of the course has been covered by external and university internal sources and the proposal was created for the summer part of the school.

Since 2013 the Winter and Summer School has been formally organized by Jan Evangelista Purkyně University in Ústí nad Labem and Vienna University of Technology. The whole concept of the event remained the same as the network of collaborating experts.

The course is designed for 20 students from universities with the interest in energy topics. This year, unfortunately, there were less students because of school exams in same dates. The participating Czech and Austrian students should find a partner from the other country during the Winter School in Prague to start working on their bilateral seminar papers. Seminar papers were presented during the summer part of the course in Vienna and evaluated by supervisors who led the students through the course and joint work.

Students

The participating students came from different specializations and universities (in CZ – University of Economics, Czech Technical University, Jan Evangelista Purkyně University and CERGE EI – for the first time), which provides the heterogeneous mixture of approaches to the energy issues and brings the open board for interesting multi approach discussion.

Students were chosen through the application form with the personal information and experiences in the energy and economics field (application form can be seen in Annex 1 of this document). The list of participants (meaning all students, lecturers and organization team) can be seen in Annex 2.

Organization and program of the Summer School 2019

The whole project was proposed and carried out by:

Amela Ajanovic from Vienna University of Technology, Austria

Jiřina Jílková from Jan Evangelista Purkyně University in Ústí nad Labem, Czech republic

Together in the cooperation with their project partners:

Wolfgang Streicher from Innsbruck University, Austria, Reinhard Haas from Vienna University of Technology, Austria and Jaroslav Knápek from Czech Technical University in Prague, Czech Republic.

The program and all the activities were organized by the teams of the home universities. Jiří Louda (in behalf of Jiřina Jilková - UJEP), Šimon Přecechtěl (participant of the previous year course) and Jaroslav Knápek, Michaela Lachmanová (CTU) were the coordinators of the Winter School in Prague, Amela Ajanovic in cooperation with Reinhard Haas and Jasmine Ramsebner were the coordinators of the Summer School in Vienna. The program of the Summer School 2019 can be found in Annex 3.

There was a theoretical part lectured in Vienna University of Technology, this part was enriched by excursions where students may gain the practical view. During the Summer School in Vienna, participants had the possibility to visit: the waste incinerator in Spittelau, Austrian Power Grid and a solar building - passive apartment house with the architect's commentary.

During the Winter School in Prague students created teams of two (or three in special case) people to start working on the topics which they could choose upon the agreement with supervisors (Amela Ajanovic, Jirina Jilkova, Reinhard Haas, Jaroslav Knapek) and six bilateral teams were created. During the time between the Winter and Summer School students were working in Czech-Austrian teams on their seminar papers. The aim of all of the topics was to analyse the current situation in both countries, find up-to-date data and compare it (also on the EU level). Students presented their seminar papers and results of the comparison during Summer School in Vienna (see in program). The list of all seminar papers presented in Vienna can be found in Annex 4.

As mentioned above, due to the administrative mistake the winter part of the course has been covered by external and internal sources and the project proposal was created for costs of the summer course. Remuneration for lecturers in Vienna, transport to Vienna and back for lecturers and students were covered by the AKTION fund. We thank to Austrian Embassy for arranging the accommodation for Czech students also for this year which brought an absolutely significant help and savings to the budget.

We guarantee that there was no overlapping of the financing from AKTION and this extra support was absolutely necessary to realize this successful project.

A handwritten signature in black ink, written in a cursive style. The signature is written over a horizontal dotted line. The name appears to be 'Jiřina Jílková'.

Prof. Ing. Jiřina Jílková, CSc.

Annex 1

Application for the Interdisciplinary Bilateral Winter and Summer School of the Czech-Austrian Energy Expert Group

**(Winter School: February 3 – 8, 2019 in Prague
Summer School: June 16 – 21, 2019 in Vienna)**

Application deadline: January 15, 2019. E-mail address for sending this application is: precechtel@ieep.cz

Contact details

Name:

Address:

E-mail:

Tel:

Education

Field of study:

University:

Number of semesters at the University:

Achieved academic title:

- Bakk /when (year):
- Master/Magister/ when (year):
- Doktor/PhD/ when (year):

Successful attended university classes/courses on: (which)

when (year)

- Energy policy:
- Energy economics:
- Energy technologies:
(renewables, efficiency)
- Other energy relevant topic:

Other experiences in the energy field

- work experience:
- internship/workshop:
- seminar papers:
- other:

Experience with/in the Austria

- language courses:
- seminar papers:
- work experience:
- university exchange programme in the Austria:

**Please summarize your motivation to participate in this Winter and Summer School
(2-3 sentences)**

Annex 2 List of participants

List of participants for the Winter/Summer School, February/June 2019, Prague/Vienna		
Surname	Name	University
Austrian Delegation		
Prof. Dr. Haas	Reinhard	TU Vienna
Prof. Dr. Streicher	Wolfgang	UIBK
Prof. Dr. Schleicher	Stefan	KFUG
Dr. Ajanovic	Amela	TU Vienna
Dipl.-Ing. Gruenner	Roman	BOKU
Austrian Students		
Topic	Antonia	TU Vienna
Groiss	Bernhard	TU Vienna
Kleinl	Andreas	TU Vienna
Birett	Christina	TU Vienna
Wejwithan	Amphai	TU Vienna
Ebrahimi	Sayed Mustafa	TU Vienna
Nikoufar	Mohamadali	TU Vienna
Maierhofer	Daniel	TU Vienna
Austrian Team		
Prof. Dr. Haas	Reinhard	TU Vienna
Dr. Ajanovic	Amela	TU Vienna
Ramsebner	Jasmine	TU Vienna
List of participants for the Winter/Summer School, February/June 2019, Prague/Vienna		
Surname	Name	University
Czech Delegation		
Prof. Jílková	Jiřina	UJEP
Prof. Janouch	František	Royal Academy Stockholm
Prof. Knápek	Jaroslav	CVUT
Czech Students		
Vajlichová	Adéla	UJEP
Knápek	Martin	CVUT
Jílek	Petr	CVUT
Čech	Prokop	VSE
Bajnoko	Ola-Sumbo	CERGE-EI
Štofa	Radim	CVUT
Pavlová	Adéla	CVUT
Matouš	Vojtěch	CVUT
Laxton	Dali	CERGE-EI
Czech Team		
Louda	Jiří	UJEP
Přecechtěl	Šimon	UJEP

Annex 3 Programme of the Summer School 2019

Interdisciplinary Summer School 2019 on "The Future of Energy Systems in Austria and the Czech Republic"	
Sunday, June 23rd 2019	
Accommodation for Czech students: Accommodation at Czech Embassy Penzinger Str. 114, 1140 Wien	
18:24	Arrival of Czech students in WienMedling
19:30	Dinner for Czech students
Lectures:	
Dekanatzimmer CF Z217, Gusshausstrasse 25, 2-3, Stock, Stiege 7	
Tuesday, June 25th 2019	
Dekanatzimmer CF Z217	
9:30	New challenges in Electricity markets Prof. Reinhard Haas (TU WIEN)
Dekanatzimmer CF Z217	
10:30	Coffee break
11:00	Recent developments of biomass technologies Prof. Michael Harasek
12:30	Lunch break at Mensa
13:45	Energy and mobility Amela Ajanovic
15:15	Presentations of seminar papers by students with A.Ajanovic, R. Haas, J.Knappek, J.Jilkova, M. Lachmanova
19:00	<i>Social event for all students and lecturers</i>
Wednesday, June 26th 2019	
Dekanatzimmer CF Z217	
9:30	Energy and Environment: Cost of the Regulation Prof. Dr. Jilkova
11:00	Coffee break & lunch
12:00	Technical Tour Austrian Power Grid
17:00	End of day
Thursday, June 27th 2019	
Dekanatzimmer CF Z217	
9:00	Presentations of seminar papers by students and discussion with R. Haas, J.Knappek, J. Ramseberner, Ajanovic, Jiliko
11:00	Coffee break
11:15	Biomass in Europe Prof. Dr. J. Knappek (Technical University of Prague)
13:00	Lunch break at Mensa
14:00	Work on seminar papers by students
17:00	End of day
Friday, June 28th 2019	
Dekanatzimmer CF Z217	
9:00	Sustainable Buildings Dipl. Ing. Roman Gr�uner (BOKU Vienna)
11:15	Lunch break at Mensa
12:30	Technical Tour Solar buildings
15:00	End of day
Monday, June 24th 2019	
Dekanatzimmer CF Z216	
9:00	Registration
9:15	Introduction PD Dr. A. Ajanovic and Prof. Dr. R. Haas, TU Wien
9:30	Recent developments on EU electricity markets Prof. Dr. J. Knappek (Technical University of Prague)
11:00	Coffee break
11:30	Work on seminar papers/presentations by students (with J. Knappek, M. Lachmanova, Jiljkova, A. Ajanovic, R. Haas)
12:30	Lunch break at Mensa
13:45	The tragedy of the commons Alois Tost
15:00	Coffee break
15:30	The tragedy of the commons (continuation) Alois Tost
17:00	End of day

Annex 4 List of the seminar paper groups with topic and advisor

Austrian student	Czech student	TOPIC OF SEMINAR PAPER	Supervisor
Bernhard Groiss	Adéla Vajlichová	Wholesale electricity market	Reinhard Haas
Andreas Kleinl	Vojtěch Matouš	International electricity exchange in central and western Europe: problems and challenges	Jaroslav Knápek
	Martin Knápek	E-mobility economics	Amela Ajanovic
Amphai Wejwithan		E-mobility in urban area : comparison of policies and lesson learned	Amela Ajanovic
	Štolfa Radim	Decentralized small pv systems	Jaroslav Knápek
	Ola-Sumbo Bajnoko	Biomass Potential	Jaroslav Knápek
Petr Jílek	Thomas Kotzent Florian Rinser	Promoting renewable electricity: Targets, Strategies, by Technology (2005-2018)	Reinhard Haas