

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

Final Report

Amela Ajanovic Jaroslav Koutský

Aim and content of the Winter and Summer School

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.

The helpful and successful cooperation between Czech and Austrian energy experts led to the idea to organize the Winter and Summer School on Energy Systems in Austria and Czech Republic. All of those previous Winter and Summer Schools led to the intention to organize it again for the twelfth time in 2017.

During the years 2006 - 2012 the Winter and Summer School was organized by University of Economics in Prague and Karl-Franzens University in Graz. 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 well the network of collaborating experts.

The Winter and Summer School on Energy Systems in Austria and Czech Republic is designed for 20 students who want to acquire and deepen their knowledge about energy issues through interesting presentations and excursions. 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. The papers were being written by the teams during the whole semester, results of their collaboration were presented during the Summer School in Vienna. Winter School in Prague was organized in January/February 2017 and Summer School in Vienna at the turn of May and June 2017.

Students

The participating students came from different specializations and universities (in CZ), which provides the heterogeneous mixture of approaches to the energy issues. There were students from: Vienna University of Technology, University of Economics in Prague, Czech Technical University in Prague and University of South Bohemia in České Budějovice (for the first time).

There were 10 students from Czech Republic and 9 students from Austria elected through a formal selection process on universities. The students had to fill in an application form concerning their energy-related background. (See application form in Annex 1.) All of those participants had to prove that they had already dealt with some energy related topics at their university or some practical experience in the field of energy. They were nominated by the project partners and selected in accordance to their study success and experience with seminar topics. The list of participants (meaning all students, lecturers and organization team) can be found in Annex 2.

Organization and program of the Winter and Summer School 2016

The whole project was proposed and carried out by:

Amela Ajanovic from Vienna University of Technology, Austria

Jaroslav Koutský 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 and Lenka Zemková (in behalf of Jaroslav Koutský) and Jaroslav Knápek were the coordinators of the Winter School in Prague, Amela Ajanovic in cooperation with Reinhard Haas were the coordinators of the Summer School in Vienna. The program of the Winter and Summer School 2017 can be found in Annex 3. Topics, excursions and also the lecturers of this whole course were chosen to help students to acquaint with various energy topics as they could compare those gained information with those from their studies at home universities. Students from both countries had the possibility to compare the energy situation in their country with the other one which is supposed to be very helpful in finding and understanding the differences and similarities of both areas.

The lecturers of this course were not only the people from academic sphere but also from the private sector. This fact is an important fact in getting the complete information from more points of view. 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 Winter School in Prague the excursions took place in: two small hydro power plants in Litoměřice and Miřejovice and Czech Technical University Laboratory. Students also participated on the lecture about E-mobility with a practical demonstration of two electric vehicles. 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 bilateral teams of two people to start working on the topics which they could choose. As there were 9 students from Austria, one team was created by two Czech and one Austrian student. Each team had a supervisor (elected depending on the background of the different experts) for discussing the topics and giving advices and feedbacks. 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 had to present their seminar papers and results of the comparison during Summer School in Vienna. The list of all seminar papers presented in Vienna can be found in Annex 4. All students successfully participated the course received the certificate based on the evaluation.

All data, presentations of students and lecturers, seminar papers, background literature, etc. can be found on the restricted area of the project website under www.ieep.cz/projekty (both username and password: "I7A").

Before the Winter School, the contribution from Austrian students (9 x 150 EUR/student) and contribution from Czech students (10 x 1000 CZK/student) was collected. During the winter week in Czech Republic, the Czech amount was totally spent for daily meals (for the Austrian and Czech participants) and refreshment during the lectures which was not covered by the AKTION budget. In Austria, the contribution (1350 \in) was taken to finance the expenditures for lunch and the joint dinner. Each student received a confirmation of his/her contribution delivery. The overview of expenses (and comments) during the Summer School in Prague is in the Financial Report.

We guarantee that there was no overlapping of the financing from AKTION and this extra support was absolutely necessary to realize this successful project. We thank to Austrian Embassy for arranging the accommodation for Czech students.

RNDr. Jaroslav Kourský, Ph.D.

Annex 2 List of participants

	T	T	
Surname	Name	University	
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Austrian Deleg			
Prof. Dr. Haas	Reinhard	TU Vienna	
Prof. Dr. Streicher	Wolfgang	UIBK	
Prof. Dr. Schleicher	Stefan	KFUG	
Dr. Ajanovic	Amela	TU Vienna	
DiplIng. Gruenner	Roman	ВОКИ	
Austrian Stude	nte		
Manafi Miralilo	Ali	TU Vienna	
Fall	Aminata	TU Vienna	
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Talesh Lar	Javad	TU Vienna	
Mahdi	Omidi	TU Vienna	
Sheikhalizade	Farshid	TU Vienna	
Jooya	lman	TU Vienna	
Wachter	Lukas	TU Vienna	
Milenkovic	Vukola	TU Vienna	
Eisazadeh	Mohammadsadigh	TU Vienna	
		TU Vienna	
Austrian Team			
Prof. Dr. Haas	Reinhard	TU Vienna	
Dr. Ajanovic	Amela	TU Vienna	
Toleikyte	Agné	TU Vienna	
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List of partic	ipants for the W	inter/Summer School	
Febru	ary/June 2017,	Prague/Vienna	
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Surname	Name	University	
Czech Delegati	on		
Prof. Jílková	Jiřina	UJEP	
Prof. Janouch	František	Royal Academy Stockholm	
Prof. Knápek	Jaroslav	CVUT	
Czech Student		CVOI	
Cruz Viques	Karol Patricia	CVUT	
Hampl	David	CVUT	
lgissenov	Assylbek	CVUT	
Kroneisl	Jan	CVUT	
Mengr	Miroslav	CVUT	
Mino	Jakub	VSE	
Sagapova	Nikola	JCU	
Krautwurm	Petr	VSE	
Jirka	Tomáš	CVUT	
Sýkora	Jakub	CVUT	
Czech Team			
Czech Team Louda Zemková	Jiří Lenka	UJEP UJEP	

Annex 3 Programme of the Winter and Summer School 2017

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Coffee break	Solar buildings
	15:00 End of day
11:30 Environmental policies in the energy sector 13:30 Work on seminar papers by students	
Prof. Dr. Jirina Jilkova (UJEP, University Usti nad Labem) (with J. Knapek, Bems)	
15:30	
14:00 Work on seminar papers by students Waste incineration plant Spittelau	
Lebrosoniahserman and	

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

Austrian student	Czech student	TOPIC OF SEMINAR PAPER	Supervisor
Aminata Fall	Jakub Mino	GHG REDUCTION POLICIES IN UR- BAN AREAS	Reinhard Haas
Farshid Sheikhali- zade	Jakub Sýkora	ELECTRICITY MARKETS: MARKET COUPLING VS MARKET SPLITTING	Jaroslav Knápek
Javad Talesh Lar	Assylbek Igisse- nov, Karol Cruz	PROMOTING RENEWABLE ENERGY: TARGETS; STRATEGIES, COSTS, BY TECHNOLOGY (2005-2015)	Reinhard Haas
Eisazadeh Moham- madsadigh	David Hampl	THE ECONOMICS OF SMALL DECENTRALIZED PV-SYSTEMS (with storage)	Reinhard Haas
Ali Manafi Miralilo	Miroslav Mengr	THE ECONOMICS OF SMALL DECENTRALIZED PV-SYSTEMS (without storage)	Jaroslav Knápek
Mahdi Omidi	Tomáš Jirka	THE RELEVANCE AND COSTS OF SHORT VS LONG-TERM STORAGE	Reinhard Haas
Imaan Jooya	Jan Kroneisl	E-MOBILITY IN URBAN AREAS: COM- PARISON OF POLICIES AND LES- SONS LEARNED	Amela Ajanovic
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Lukas Wachter	Petr Krautwurm	ENERGY EFFICIENCY AND WASTE HEAT UTILIZATION IN CZ AND AT	Lenka Zemková