



**Wuppertal Institut**  
für Klima, Umwelt, Energie  
GmbH



## **Perspectives of Renewable Energy in the Danube Region**

**International Conference**

**26-27 March 2015, Pécs - Hungary.**

The Hungarian Academy of Sciences and the Wuppertal Institute are inviting to the conference “**Perspectives of Renewable Energy in the Danube Region**”, which will be held in **26-27 March 2015 in Pécs Hungary**. The main goal of the conference is to explore the potential of Renewable Energy Sources as key components towards the transition into a post-carbon and post-nuclear era in the Danube Region .

The conference offers a unique opportunity to get up-to-date knowledge on the more relevant technical, economic, environmental and social aspects that influence the transformations happening in Societies of the Danube Region, towards increasing the renewable basis of their energy systems. Through an open call for abstracts the conference gathers contributions from leading researchers from different countries of the Danube Region, giving us an overview.

Through the variety of disciplinary perspectives analysing the topic, the conference can provide a broad range of energy-relevant actors (public entities, private companies, researchers as well as civil society) with valuable insights on the societal challenge of transforming the current energy systems in the Danube Region into more sustainable ones.

The participation at the conference is free of charge, however, a registration is needed. For the registration, please follow the link: <http://surveyor.rkk.hu/index.php?sid=88798&lang=en>  
The deadline for the registration is 15<sup>th</sup> of March, 2015. After deadline we could not accept your registration.

Following [this link](http://danuberes.rkk.hu), (<http://danuberes.rkk.hu>) you can also find the most important information about the city of Pécs, the Venue, accommodation and transportation facilities.



## Conference Program

**25<sup>th</sup> of March, 2015 – 19:00-21:00 Welcome reception at Centre for Regional Studies, of CERS HAS (Venue: [Pécs, 22. Papnövelde Street](#))**

**1<sup>st</sup> Conference Day – 26<sup>th</sup> March 2015 (Venue: [MTA PAB – Jurisics M. u. 44.](#))**

Start	End	Title	Speakers/Authors
<b>Welcome and Introduction</b>			
8:30	9:00	Registration	
9:00	9:30	Welcome Speeches	Prof. György Kosztolányi academician (President of Regional Committee of Pécs HAS) István Fodor (CERS of HAS, RC Pécs of HAS) Viktor Varjú (CERS of HAS)
		Environmental policy introductory	
9:30	10:00	Key note 1: The Signs of Post-fossil Transition in the Energy Landscapes at the River Danube	Márta Somogyvári (University of Pécs)
10:00	10:30	Key note 2: Transformative research: The role of science in transitions towards sustainable energy systems	Ortiz Willington (Wuppertal Institute)
10:30	11:00	Discussion	
11:00	11:30	Coffee Break	
<b>Systemic components and constrains</b>			
11:30	11:40	Introductory – systemic components and constrains	Márta Somogyvári (University of Pécs)
11:40	11:55	The role of renewable energy in the energy network system of the Danube Region	Tamás Katona (University of Pécs)
<i>System Transformations</i>			
11:55	12:10	Possibilities of renewable energy applications on the base of Hungarian samples	Jenő Zsolt Farkas, Edit Hoyk, András Donát Kovács (CERS of HAS)
<i>System Integration</i>			
12:10	12:25	Modelling the Integration of Large Energy Storages in the Alpine Region	Mathis Buddeke, Christine Krueger (Wuppertal Institute)
12:25	12:40	Overview and Perspectives of Renewable Energy Sources in the Danube Region in Croatia	Danijel Topić, Anton Spajić, Stanislav Vezmar, Damir Šljivic (University of Osijek, ETFOS)
12:40	13:10	Discussion	
13:10	14:00	Lunch break	
<i>Social Domain</i>			
14:00	14:10	Session heading	László Berényi (University of Miskolc)

14:10	14:25	The Theory of Environmental Modernization and its feasibility application in capitalist economy	Dragos Constantin Sanda (University of Bucharest)
14:25	14:40	An analysis of social effects of climate and energy usage modernization - Europe case	Smarandoiu Alexandra Luana (University of Bucharest)
<i>Economic Domain</i>			
14:40	14:50	Session heading	Éva Pintér – Nikolett Deutsch (University of Pécs-Corvinus University)
14:50	15:05	Joint renewable energy support schemes in the Visegrád countries	Tamás Tóth, Éva Szabina Somossy (MEKH)
15:20	15:35	Romanian electricity market in the light of fast development of renewable energies. General presentation and critical assessment.	Sorin Cebotari (Babeş-Bolyai University)
15:35	16:05	Discussion	
16:05	16:30	Coffee Break	
16:30	18:00	Interactive Workshop: jointly mapping the state of the transition towards RE based energy systems in the Danube Region	Wuppertal Institute and Hungarian Academy of Sciences

**19:00- Dinner at Hotel Palatinus (Venue: [Pécs, 5 Király Street](#) – Hall of Bartók)**

**2<sup>nd</sup> Conference Day – 27<sup>th</sup> March 2015 (Venue: [MTA PAB – Jurisics M. u. 44.](#))**

Start	End	Title	Speakers/Authors
<b>Assessing Renewable Energy Potentials</b>			
9:00	9:20	<i>The hydropower potential in the Danube Region.</i>	István Szeredi (Hungarian Academy of Sciences)
9:20	9:30	<i>Session heading - wind</i>	Ildikó Wantuchné Dobi (OMSZ)
<i>Wind Resources</i>			
9:30	9:45	Optimisation of the wind farm location planning with of GIS based on a Hungarian case study area (Csongrád county)	Nándor Csikós, Péter Szilassi (University of Szeged)
9:45	10:00	Statistical estimation of the next day's average wind speed and wind power	Károly Tar, István Lázár, Renáta Gyarmati (University of Nyíregyháza, University of Debrecen)
10:00	10:15	The Limits of Wind Energy in Hungary - The Geographical Aspect	Béla Munkácsy, Ádám Harmat, Dániel Meleg (ELTE University)
10:15	10:45	Discussion	
10:45	11:15	Coffee Break	
<i>Geothermal Resources</i>			
11:15	11:25	Session heading – geothermal	Lajos Göőz (University of Debrecen)
11:25	11:40	General overview of RES, focusing on the geothermal energy	Klára Tóthné Szita, Vizkeleti Anna (University of Miskolc)
11:40	11:55	Untapped potentials and enhanced use of deep geothermal energy in the Danube Region	Annamária Nádor, Szilárd Árvay (MFGI, Ministry of Foreign Affairs)

11:55	12:10	Thermal water utilization and its possible development in the early 21st century in Hajdúság, East Hungary	Erika Bódi, Tamás Buday, Réka Lilla Kovács, Richard William McIntosh, Miklós Kozák (University of Deberen)
12:10	12:25	Effect of solar radiation on underground temperature values and heat supply in case of the ground coupled loop of a heat pump system based on meteorological data, Debrecen	Tamás Buday, István Lázár, Gergely Csákberényi-Nagy, Erika Bódi, Tamás Tóth (Universtiy of Debrecen)
12:25	12:40	Geothermal energy applications developed in Bihar county and at University of Oradea	Mircea Gordan, Cristian Vancea, Cornelia Gordan, Maria Bittenbinder, Monica Costea (University of Oradea)
12:40	13:10	Discussion	
13:10	14:10	Lunch break	
<i>Solar Resources</i>			
14:10	14:20	Session heading	Damir Šljivac (University of Osijek)
14:20	14:35	Decreasing negative ecological impacts of PV farms: identification of suitable areas in Hungary	Lea Végh (Hokkaido University)
14:35	14:50	Cost-benefit analysis of different photovoltaic systems Croatia, Hungary, Serbia, Slovenia	Denis Pelin, Zsolt Sándor Kovács, Andrea Suvák, Damir Šljivac, Danijel Topić, Mario Srnović (University of Osijek, CERS of HAS)
14:50	15:05	Water heating based on solar energy	Marinko Stojkov, Krunoslav Hornung, Ante Čikić, Dražan Kozak, Damir Šljivac, Danijel Topić (University of Osijek, Slavonsky Brod)
15:05	15:35	<i>Discussion</i>	
15:35	16:05	Coffee Break	
<i>Biomass Resources</i>			
16:05	16:15	Session Heading	Gábor Pintér (Georgikon University)
16:15	16:30	Sugar beet as a potential energy crop in the Danube region	Laszlo Potyondi (BETA Research Institute)
16:30	16:45	Assessing the technical feasibility of value chains for Reed based biofuels.	Jürgen Krail, H. Kitzler, H. Plank, C. Pfeifer (Univ. of Burgenland; Vienna Univ. of Techn.)
16:45	17:00	Evaluating the market competitiveness of Reed based biofuels.	Doris Rixrath, Jürgen Krail, Wartha, C. (Forschung Burgenland; UTC)
17:00	17:30	Discussion	
17:30	18:00	Summary and farewell speech	Willington Ortiz (Wuppertal Institute)

**17:30-18:30 Parallel, Extra session: “Networking Hungarian Researchers in the Carpathian-basin”**

**Megújuló energiák kutatása a határon túli magyar tudományban.**

(Session in Hungarian)

Chair: Prof. Dr. István Fodor

After the conference the Territorial Committee of the Hungarian Academy of Sciences (HAS) invites Hungarian Researchers from the region for a networking session. Participation is free of charge and available for all the participants. No further registration is needed.