

Course Programme

Training Course:
**Economic and Technical Aspects
of the Deployment of Renewable Energy Sources (RES)**

**March 3-5, 2014
Budapest, Hungary**

organized by the Energy Regulators Regional Association (ERRA) and
Association of Mediterranean Energy Regulators (MEDREG)

Course Venue:
Courtyard by Marriott Hotel Budapest City Center
1088 Budapest, József körút 5.
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DAY 1, March 3, 2014 – RES-E Regulation: Policy, Business, and Technical Challenges

<i>Morning</i>		
8:20 – 8:30	Registration	Speakers
8:30 – 8:45	Opening Address and Introduction to the Course Introduction of the Participants	Dr. Gábor Szörényi, Course Director, General Secretary of Energy Regulators Regional Association (ERRA)
8:45 – 10:30	Regulation of RES-E: Introductory Remarks on Policy, Economic, Social and Technical Issues Climate change policy issues, economic outlook of renewable technologies, technical issues of network/system connection and affordability issues of support mechanisms. Economic and technical problems countries face when RES starts getting a relevant share of the electricity market; revision of the support mechanisms to ensure the necessary flexibility of the grids to accommodate intermittent resources and generation adequacy	Mr. László Szabó, Research Associate, Regional Centre for Energy Policy Research (REKK) Dr. Gábor Szörényi, Course Director, General Secretary of Energy Regulators Regional Association (ERRA)
10:30 – 10:45	<i>Coffee break</i>	
10:45 – 12:45	Financing Renewable Energy Investments: Business Models and the Role of Regulation Governmental/regulatory tools to support renewable energy investment and operation – short introduction and evaluation of different existing policy schemes Investment Opportunities on Renewable Energy in Mediterranean Countries: Case Studies	Mr. László Szabó, Research Associate, Regional Centre for Energy Policy Research (REKK) Mr. Tomas Gomez, Professor at Pontificia Comillas University of Madrid, former Regulatory Commissioner of CNE, Spain

12:45 – 14:00	<i>Lunch</i>	
14:00 – 15:45	<p>RES-E Regulatory Tasks Related to Grid Integration: Impact on System Operators</p> <p>TSO point of view (network development, flexibility, balancing, system operation, cross-border loop flows, cross-border balancing); the importance to have a balanced system of supply and demand not only concerned with the daily operation of the national system, but also with the regional one</p> <p>Integration of generation on distribution grids: DSO and DG regulatory issues</p>	<p>TSO aspects: Mr. Juan Francisco Alonso Llorente, Dpto. Acceso a Red, RED ELÉCTRICA DE ESPAÑA</p> <p>Regulatory aspects: Mr. Tomas Gomez, Professor at Pontificia Comillas University of Madrid, former Regulatory Commissioner of CNE, Spain</p>
15:45 – 16:00	<i>Coffee Break</i>	
16:00 – 17:00	<p>Group Work I: Off-class Teamwork Assignment</p> <p>The off-class three days assignment of the training course is supposed to bring participants together after the classes and to make participants think about regulatory issues presented in case study format. Participants will be grouped into 3-4 groups and each group will be presented a problem issue. The groups will be asked to get together after the assignments have been distributed in order to suggest a joint solution for the problem. Solutions will be presented at the end of the training course and will be evaluated jointly by the course director and the other groups.</p>	Introduction to the assignment: Dr. Gábor Szörényi

DAY 2, March 4, 2014 – RES-E Regulation: Support Scheme Designs

<i>Morning</i>		
8:30 – 10:00	Regulatory Tools to Support RES: Evaluation of Policy Schemes Evaluation of different support schemes (green certificate, feed in tariff systems, market based elements of support models) from different point of views (policy maker, investor, system operator and end-user); market distortion effects of different renewable support mechanisms. Potential actions limiting and/or correcting the market distortions (reduction of advert effects, capacity remuneration mechanism as potential new concept under consideration).	Ms. Maria Vagliasindi, Lead Economist, World Bank
10:00 – 10:30	<i>Coffee Break</i>	
10:30 – 12:00	Country Case Study 1 Germany: Establishing Feed-in Tariffs and Green Bonuses	Tim Mennel, Market and Regulation Team, KEMA Consulting
12:00 – 13:30	<i>Lunch</i>	
13:30 – 15:00	Country Case Study 2 Croatia: Benefits and Barriers of Feed-in Systems and future developments towards grid-parity	Zlatko Zmijarević, Department for the Electric Power System and Quality of Service - Electricity Division, Croatian Energy Regulatory Agency
15:00 – 15:30	<i>Coffee Break</i>	
15:30 – 17:00	Group work II: Site Selection for RES Investment	Introduction to the assignment: Dr. Gábor Szörényi

DAY 3, March 5, 2014 – RES-E Regulation: Licensing and Monitoring, Test and Evaluation of the Training

<i>Morning</i>		
8:30 – 10:00	RES-E Licensing and Monitoring of RES-E Performance This session will include an introduction of methods determining license conditions of different renewable technologies, Key Performance Indicators and reporting tools for RES	Mr. Attila Bagi, Head of Department, Hungarian Energy and Public Utility Regulation Authority, Hungary
10:00 – 10:30	<i>Coffee Break</i>	
10:30 – 12:00	Group Work III: Presentation of Team Assignments	Moderated by Dr. Gábor Szörényi
12:00 – 13:30	<i>Lunch</i>	
13:30 – 15:00	Moderated discussion: Problem issues presented by participants	Moderated by Dr. Gábor Szörényi
15:00 – 15:30	<i>Coffee Break</i>	
15:30 – 16:30	Final Test The final test is a multiple choice exercise at the end of the training course. Questions refer to the presentations heard and are mostly combined by the individual lecturers in order to make sure that the answers were part of the presentations.	
16:30 – 17:30	Course Evaluation Final Comments and Farewell	

Disclaimer: ERRA reserves the right to change the published agenda at any time during the organisation and implementation of the programme.