



Course Program

CEVI, Ankara, Bilkent Hotel

Ankara, May 16-17, 2011

Monday May 16

9.00- 9.30 hours opening

Prof. Mehmet Baha Karan, Hacettepe University

Prof. André Dorsman, president of CEVI

9.30-12.00 hours Turkish Electrical Energy Sector and Electricity Market

Budak Dilli (Former General Manager / General Directorate of Energy Affairs – Ministry of Energy and Natural Resources)

- Analysis of Turkish Electrical Energy Sector: Installed power, generation, demand
- Future projections and supply- demand balance
- A brief summary of Structure of Electricity Market, Market activities and market participants.
- Privatization strategy and recent developments.
- Generation activities and investments
- Distribution sector. Unbundling of distribution and retail activities, tariff structure.
- Electrical energy trading- methods and markets: Wholesale and retail competition, bilateral contracts, day ahead and balancing markets.
- Market operator- System operator concepts
- Role and importance of Transmission System Operator (TSO) and transmission related issues.
- Use of renewable sources and their place in competitive market.

12.00-13.00 hours Lunch

13.00-15.00 hours Gas Pricing in Turkish Electricity Market with lessons from Europe

Dr. Wietze Lise (Freelance, Senior Energy Consultant)



- Main question of power plant operator: from where should I purchase natural gas to minimize the purchase cost while being able to manage the risk of price volatility?
- Demand: within the year daily variation and long term projections
- Supply: assessment of main producers and long term projections
- Costing of production options and oil price indexation based on long-run marginal costs
- Daily supply-demand balance leading to the balancing price at the spot market and pricing in long term contracts
- Price formation on the gas market in a transport constrained gas system
- Investment decision in gas infrastructures: the trade off among pipelines, LNG and seasonal storage
- Comparison of world gas scenario runs with models varying in geographical coverage, approach and detail: lessons from the Stanford Energy Modeling Forum
- Practical and relevant with updates of the latest developments in the gas market
- Format will be half instruction and half exercise where the participants can work on finding solutions to their day to day challenges

15.15-17.30 hours Unbundling & liberalization

EU-directives & guidelines regarding ambition for liberalization of energy markets and the accompanying unbundling developments;

Paul Pottuijt (Gen, Senior Energy Consultant)

- Statuses and experiences in Europe
- Reference model for liberalized/ unbundled energy markets
- Market roles for liberalized/ unbundled energy markets
- Market processes for liberalized/ unbundled energy markets
- Role and different levels of Energy data management in liberalized/ unbundled energy markets

Tuesday May 17

9.30-12.30 hours Power Pricing in Turkish Electricity Market with lessons from Europe

Dr. Wietze Lise (Freelance, Senior Energy Consultant)

[Marquette 13, 1081 AD, Amsterdam, The Netherlands](#)



- Main question of power plant operator: to whom should I sell my electricity to maximize the sales revenue while being able to manage the risk of price volatility?
- Demand: hourly variation within the day, daily variation within the year and long term projections
- Supply: installed capacity, rehabilitation, privatization, progress on licensed units and long term projections
- Determining the power plant merit order: long-run versus short-run marginal costs
- Hourly supply-demand balance leading to the balancing price
- Price formation on the Power Market in a transmission constrained power system
- Assessment of the benefits of distributed generation and the barriers towards increasing its share
- Practical and relevant with updates of the latest developments in the power market
- Format will be half instruction and half exercise where the participants can work on finding solutions to their day to day challenges
- Together with the participants one case will be formulated and with the help of a modeling tool results will be calculated and discussed

12.30-13.30 hours Lunch

13.30-15.30 hours Energy transition & impacts on energy portfolio management

Paul Pottuijt (Gen, Senior Energy Consultant)

- Summary of developments regarding Energy transition
- GEN's view on developments on Energy transition
- Specific topics on energy transition are:
 - Energy storage
 - Change in fuel mix
 - Smart grids
 - Stimulation policies of renewable energy
 - GEN's knowledge on incorporation of wind parks in energy trading portfolio



15.30-16.30 hours Panel Discussion

Prof. ANDRE Dorsman, president of CEVI

Prof. Mehmet Baha Karan, Hacettepe University

Dr. Wietze Lise, Freelance, Senior Energy Consultant

Paul Pottuijt, Gen, Senior Energy Consultant

Biography

Budak Dilli, the former General Manager / General Directorate of Energy Affairs – Ministry of Energy and Natural Resources, graduated Middle East University Department of Electrical /Electronics Engineering at 1974, then received M.Sc. degree on Electrical/ Electronics. He worked in TEK (TEAS) as a chief engineer during 1974-1992 and as Head of Communication Control and Automation Department during 1992-1997. Then he has been appointed as a Deputy General Manager of TEAS for four years. He was responsible for Transmission and Generation Planning, Generation and Transmission investments, Communication and Control, Transmission Network operation (partly), Long term expansion plans of transmission network, Optimum generation expansion plans and Tendering, evaluation and contract negotiation for TEAS Generation Investments. Later he has worked in Ministry of Energy and Natural Resources as a General Director, Directorate of Energy Affairs till 2010. His responsibilities include energy planning, policies, strategies, energy statistics future supply- demand projections, execution of the concession contracts and long term power purchase agreements, energy sector restructuring and liberalization of electricity and gas markets; policies and measures to ensure supply security, strategies to create a reliable investment atmosphere for new investments for electricity generation, transmission and distribution, preparation and implementation of renewable energy law, to promote electricity generation from renewable sources, preparation of the policies and strategies for climate change issue.

Dr. Wietze Lise is a Senior Energy Consultant at the Energy & Environment unit in Ecorys and he also works as a freelance consultant. He has a graduate diploma in mathematical engineering from Twente University, Holland and he holds a PhD in Economics from Delhi School of Economics. His main work experience is in power and gas markets and long term price projections both in Europe and Turkey. However, he also has sound knowledge and experience in energy-economic modelling, economics of climate change, and resource management. During his eighteen years of research and consultancy experience, he worked in Holland at several research and consultancy companies who were leaders in the energy and environment field. In addition to that, he worked together with multidisciplinary teams both in Europe and Turkey, and acquired, produced and managed a myriad of projects. He has more than thirty published and widely cited scientific articles in various international journals. Since 2006, Wietze Lise has focused his research and consultancy work especially on the Turkish energy market and he lives and works in Turkey.

Center for Energy and Value Issues CEVI



Paul Pottuijt M.Sc. is active as Senior Energy Consultant in the Dutch and Central Western European (CWE) energy market. He graduated at Delft University of Technology, faculty Technology, Policy and Management, section Economics of Infrastructures in 2002. At Amsterdam Power Exchange B.V. (nowadays APX-Endex) he wrote his Master thesis on the topic Market transparency improvements for the Dutch wholesale electricity markets (based on international benchmark). After graduation he worked as business analyst Strategy & Business architecture for 2 years in the liberalization of the Dutch domestic market for electricity and gas. Last 5 years he is active in the integration of electricity markets in the CWE-region. Firstly as project coordinator at APX Group (nowadays APX-Endex) for the first international market coupling project, between Belgian, France and the Netherlands (trilateral market coupling TLC). Secondly, as project manager at the Dutch TSO TenneT for the CWE MC project, the successor project of TLC. Due to his roles at both a Power Exchange and a TSO in the international market coupling projects, Paul Pottuijt has large experience in the complete variety of disciplines involved with energy market integration projects. Ranging from orientation phases, governance structures, regulatory, financial structures, legal/ contractual, operational, etc. Knowledge on these topics varies from both market/ trading perspective as well as from network perspective.