



Issue 5, May – June 2007

General Information

The bimonthly newsletter of “PROMITHEAS-2/The EU-BSEC Energy and Climate Policy Network” contains information about the network activities. Its content reflects the network’s views and the European Commission is not liable for the information contained. Announcements and outcomes of conferences, workshops or meetings for energy or climate policy issues organized by universities, academies or institutes coming from EU and BSEC Member States are included. Sponsorships are welcome.

The newsletter is distributed at the moment to almost 1,400 recipients in Albania, Armenia, Azerbaijan, Belarus, Belgium, Bosnia & Herzegovina, Bulgaria, Croatia, Cyprus, Finland, France, FYROM, Georgia, Greece, Hungary, Iceland, Ireland, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxemburg, Malta, Mauritania, Moldova, Mongolia, Morocco, Netherlands, Norway, Portugal, Romania, Russia, Serbia, Spain, Switzerland,

Tajikistan, Turkmenistan, Turkey, Tunisia, UK, Ukraine, USA and Uzbekistan.

PROMITHEAS, the Energy and Climate Policy Network has until now members from ten countries (Albania, Armenia, Azerbaijan, Bulgaria, Georgia, Hellas, Moldova, Romania, Serbia and Ukraine). One of its activities is the PROMITHEAS-2 project funded by the FP6 of EU. Six (6) institutions, **Geotechnological Problems of Oil, Gas and Chemistry - GPOGC** from Azerbaijan, **Black Sea Regional Energy Centre - BSREC** from Bulgaria, **Energy Policy and Development Centre - KEPA** from Greece, **Institute of Power Engineering of the Moldovan Academy of Sciences - IPE** from Moldova, **Institute for Studies and Power Engineering - ISPE** from Romania and **Energy Saving and Energy Management Institute - ESEMI** from Ukraine participate at PROMITHEAS-2 with KEPA as the coordinator.

PROMITHEAS-2, Workshops

Scientific Workshop “**Electricity generation and emission trading in South Eastern Europe**”, September 21, 2007 in Sofia (Bulgaria). The workshop topics include electricity generation technologies; mechanisms of emission trading based on the Kyoto protocol; EU electricity and gas markets; renewable energy sources and the use of biofuels; innovations in the CO₂ capture and storage technologies; optimisation of the security of energy supply; protection of the natural environment; climate change observations and protection measures; projects for the establishment of an international energy and climate cooperation network. Prof. Dr. **Jordan JORDANOV** – Specialist in Gas and oil, Prof. Dr. **Nikola KALOJANOV** –

Specialist in Heating and cooling, Prof. Dr. **Boncho BONCHEV** – Specialist in Thermal power plants, Prof. Dr. **Dimitar SIRAKOV** – Specialist in Meteorology, Prof. Dr. **Ivan IVANOV** – Specialist in Climate and Environment and Prof. Dr. **Lulin RADULOV** – Specialist in Power systems constitute the Scientific Committee of the Workshop.

More information available at:

http://www.kepa.uoa.gr/PROMITHEAS2_Workshop2.htm

Scientific Workshop “**Joint Implementation and Clean Development Mechanism among the BSEC countries**”, November 9, 2007 in Kiev (Ukraine). The government of Ukraine accepted the proposal of KEPA for upgrading this workshop into a BSEC event. The workshop will focus on the role of Kyoto



mechanisms as climate policy instruments for Caspian and Black Sea countries. The event will offer the opportunity to recommend ways to overcome barriers, facilitate their implementation

and attach investments from other Annex I countries and especially EU.

More information available at:
http://www.kepa.uoa.gr/PROMITHEAS2_activities.htm

PROMITHEAS-2, Activities

The 3rd call for PROMITHEAS-2 scientific journal **“Euro – Asian Journal of Sustainable Energy Policy”** (in **English and Russian language**) is open and addressed to EU, BSEC and Central Asia researchers. **The best four papers published in the first two issues of the journal will receive an award of 600€ each.** Coverage of the journal includes energy and climate policy research issues.

More information available at:
http://www.kepa.uoa.gr/PROMITHEAS2_publications.htm

The e-class seminar procedure of PROMITHEAS-2 (English and Russian version) is completed. 53 researchers, young scientists, post graduate students and PhD candidates coming from Armenia, Azerbaijan, Belgium, Bulgaria, Georgia, Germany, Greece, Moldova, Romania, Russia and Ukraine participated at this first phase. The platform hosted the following two lessons:

- **“Energy savings and emission reduction potential in three end-use sectors (residential, tertiary, industry)”**, instructor **Dr. Athanasios DAGOUMAS** of the Aristotle University of Thessalonici (Greece). Seminar participants examined the energy savings, the emissions reduction and the earning from the implementation of new technologies in the end-use sectors (residential, tertiary, industry). With the use of MURE2 tool, the energy savings potential in the consumption side was examined, considering different scenarios for the diffusion and efficiency

of new technologies. This tool consists of different modules representing the end-use sectors.

- **“Clean Development Mechanism projects”**, instructor **Prof. Valetin ARION**, of the Technical University of Moldova. This seminar topic provided participants with wide information necessary to develop environmentally sound CDM projects. The topic addresses the following issues: the basic rules governing CDM, a step-by-step procedure in developing a CDM project and steer it through the approval process, key players, baseline and project concepts, project additionality, special features of small-scale CDM projects, monitoring plan basics.

The second phase of the seminar will take place during the second week of October 2007 in Athens (Greece). **Dr. DAGOUMAS** and **Prof. ARION** will continue their lessons with the examination of relevant case studies. One more instructor, **Dr. Konstantinos PERRAKIS** of RAE (Greece) will present the following subjects: **“Liberalised electricity markets”** (reasons for liberalisation, electricity sector models, wholesale electricity market models, main parameters affecting the design of wholesale markets, algorithmic issues) and **“Monitoring of wholesale electricity markets”** (market power, market monitoring methods and tools, international experience).

More information available at:
http://www.kepa.uoa.gr/PROMITHEAS2_seminar.htm

Presentation of PROMITHEAS-2 participants

Activities of IPE

Written by
 Prof. Mihail KIORSKAK,
 Director of the Institute
 of Power Engineering
 (IPE) of the Academy of
 Sciences of Moldova



The Institute of Power Engineering of the Academy of Sciences of Moldova (IPE ASM) was established in 1991, based on the Department of energy cybernetics. Its main scientific activity is focused on the development of new calculation and analysis methods

for the operating modes of Power Systems and Polices of Power Sector Development.

Its research directions include:

1. Long-term development planning and optimal operation of energy complex (development of national energy policy strategies and programs, elaboration of mathematical and simulation models);
2. Elaboration of new methods, devices, tools and equipment for increasing the efficiency of production, transmission, distribution and consumption of heat and electrical energy (phase shifting power transformers for power flow



regulation in electrical networks, automated equipment, solar converters and wind-mills adjusted to the climate conditions of Moldova).

Main achievements of these research directions are national programs for energy conservation and exploitation of renewable energy sources; theory and simulation model of the electromagnetic waves propagation in the multiphase transmission lines and non-homogeneous materials. IPE's research results in these directions are known and recognized.

The institute has a 65 member personnel among which are 35 scientific collaborators, 2 academicians, 7 doctors of science and 13 Phd candidates.

IPE cooperates closely with Institutes of theoretical and experimental physics of the Academy of Sciences of Moldova, the Moldavian Technical and State Universities, the Institute of Electrodynamics of the Ukrainian National Academy of Sciences, the Kiev Polytechnic Institute, the Moscow Power Institute, the

Sank-Petersburg Polytechnic Institute, the Technical University of Bucharest, etc. IPE participated in a number of international projects, the most important of which were:

- "Renewable Energy System for application in Romania" under the framework of INCO-COPERNICUS ICOP- DEMO 2171-1996;
- TACIS EMOL 9501;
- "Investigation of opportunity study of construction the power generation station working on natural gas in the south of the Republic of Moldova". Contract with REDECO (USA);
- "Policy Assistance to the State Department of Energy of the Republic of Moldova", E MOL 9502;
- "Climate Change" for Moldova, PNUD Project;
- "Energy Conservation Policies/ Strategy Development", 2002 SEETEC, Activity MOL-2601.

Events

▪ The 14th International "Caspian Oil & Gas" Exhibition & Conference were held in Baku (Azerbaijan) on 5th-8th June 2007 at the Sport & Exhibition Complex named Heydar Aliyev and the Hyatt Regency Hotel respectively. Both events had the official support of the Ministry of Industry and Energy of Azerbaijan Republic, State Oil company Socar, City Administration, the Chamber of Commerce and Industry of the Republic of Azerbaijan and diplomatic missions of exhibiting countries. The two day Conference had two main topics, one for each day, "**Azerbaijan's role in the sustainable development of the Caspian's oil and gas operations**" and "**Satisfying global Demand: Secure transportation routes for the Caspian's oil and gas supplies**". Participants discussed about the strategic development of Caspian Sea oil and gas operations; exploration and production of Azerbaijan's oil and gas operations; international cooperation and investment in the region; safe and reliable transportation of the Caspian Oil and Gas resources; Azerbaijan and Turkey as regional oil and gas transportation hubs and the alternative options; the Extractive Industries Transparency Initiative (EITI) – towards a global norm for revenue transparency; EITI: lessons Learnt/Next steps and finally EITI: Regional perspectives.

The speakers of the first plenary session of the first day were: **Matthew J. BRYZA**, Deputy Assistant Secretary, Department of State's Bureau of European and Eurasian Affairs of USA, Ambassador **Dr. Martin EICHTINGER**, Secretary General of the Austrian Federal Ministry of Economics and Labour, **Ms. Anita UTSETH**, Deputy Minister of the Royal Norwegian Ministry of Petroleum and Energy, **Mr.**

Hartmurt SCHNEIDER, Vice Minister of the German Federal Ministry of Economics and Technology, **Yusuf YAZAR**, Deputy Undersecretary of the Turkish Ministry of Energy and Natural Resources and **Mr. Bill SCHRADER**, president of BP Azerbaijan.

Mr. SCHRADER presented a detailed review of the on-going projects in Azerbaijan. He also mentioned that during 2007 the average level of oil production in ACG will exceed the 700,000 barrels per day, while the international consortium AIOC has reached the 800,000 barrels per day.

Mr. EICHTINGER, **Ms. UTSETH** and **Mr. SCHNEIDER** focused on the NABUCCO route and its significance for the EU energy security. NABUCCO is a relatively new route of 4,000 km supplying Europe with Middle Asia and Caspian gas through Georgia, Turkey, Bulgaria, Hungary and Austria. Its construction (by Austrian OMV, Hungarian MOL, Turkish BOTAS, Bulgarian Bulgargas and Romanian Transgas) has not started, but gas exploitation is planned to start in 2011-2012. 5 billion Euros is the initial financial estimation of this project. The perspective of an additional line that will include Azerbaijan, Iran, Iraq and Turkmenistan is extremely important.

This text was written by Dr. H. MELIKOV (GPOGC). More information available at: <http://www.caspianoilgas.co.uk/>

▪ The "1st South East Europe Energy Dialogue", was held by the Institute of Energy for South-east Europe (IENE) in Thessalonica (Greece) on June 28-29, 2007. The purpose of this meeting was to bring together high-ranking governmental officials, senior business executives and energy experts from the countries of South East (SE) Europe. **Prof.**



Dimitrios MAVRAKIS (KEPA) focused on the “**Energy prospects in South East Europe (SEE)**” and proposed a phased approached solution concerning the development of a Regional Energy Market (REM) in SEE. A regional wholesale market could be promoted with the establishment of a non-governmental, non-profit, non-discriminatory Regional Intermediary Energy Organization (RIEO)

based on regionally allocated production and transmission capacity with standardized and transparent rules and procedures. **Prof. Dimitrios MAVRAKIS** stressed on the fact that such a market would facilitate investments of regional character.

More information available at: <http://www.iene.gr> and <http://www.kepa.uoa.gr>

Upcoming events

- **2nd International Workshop on "Energy Performance and Environmental Quality of Buildings" (EPEQUB 2007)**, will be held on July 12-13, 2007, at Milos Conference Center - George Eliopoulos (Milos island, Greece). More information available at <http://milos.conferences.gr/epequb2007>.
- **DECX2007 – Decentralized Energy Conference and Expo**, will be held on September 25-26, 2007, at Amsterdam (Netherlands) at the Moevenpick Hotel. More information at: <http://www.decx-europe.com>
- **ELECO2007, 5th International Conference on Electrical and Electronics Engineering**, will be held on December 5-9, 2007 at Bursa (Turkey). The conference is organized by the chamber of Turkish Electrical Engineers, the Uludağ University, Istanbul Technical University, IEEE Turkey section and TÜBİTAK. More information available at: <http://elecoconf.org>

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