

EN•KO  
2007



# EN•KO 2007

## ENERGY, ITS PRICE AND NEW DYNAMIC FEATURES OF THE ENERGY MARKET

4th Slovak Annual Congress  
on Power and Energy

June 5 – 6, 2007

Bratislava  
Pálffy Palace



ERASMUS

## MAJOR PARTNERS



## PARTNERS



Ladies and Gentlemen,

Let me welcome all of you in this historical building of Pálffy Palace on the occasion of the 4th Annual Congress on Power and Energy "ENKO 2007 – ENERGY, ITS PRICE AND NEW DYNAMIC FEATURES OF THE ENERGY MARKET". Our Congress is held during the time which is characterized by the permanently growing relevance of the energy for mankind and its future.

Visions and threats blaming human activity for the negative impact on environment are becoming a reality. Global influence on the Earth's climate seems undisputable. It creates the new view on the world and its troubles. Power industry is becoming the sector which not only creates the benefit and value, but is becoming the part of the threats against keeping the sustainable development of the mankind. That is why there is a need to react to this challenge.

What are the substantial questions of "the 2007 energy"?

- Energy is becoming more expensive – is it possible to reverse this trend?
- Renewable resources – are they the salvation or are they only the means for increasing the cost of energy?
- Savings – are they the real remedy and are they able to solve the fundamental issue of self-sufficiency in energy supply?
- When are we likely to reach the saturation point in energy consumption, or have we already crossed this line?

On other hand – energy consumption and its price increase.

Who will win and what will influence it?

This basic question is asked by everybody who has anything to do with the energy. The question becomes the motive for the speculation, analysis and investigation. At the Congress the experienced and competent speakers will present their views and solutions to the problem.

Ladies and gentlemen,

I believe that our Congress will contribute to the discussion on the role of the power industry in the present society and also, its importance and its limits. I hope the information gained during the Congress will make it possible for you to get a clearer view of the energy problems, solutions and goals. After all – it is our intention.

In conclusion – let me to express my great thanks to all those who have participated on ENKO 2007 realization. To the Partners, the Major Partners, all the speakers, and last (but not least) to the team of organizers, who have prepared the Congress and are arranging its smooth performance. Many thanks to all of you, who are going to take part and share in the working and inspiring atmosphere of ENKO 2007 Congress.

Jiří Marek  
ENKO 2007 Chairman

# P R O G R A M M E

Tuesday, June 5, 2007 – morning

## ENERGY SUPPLY OPPORTUNITIES IN V4 REGION • LACK OF SOURCES AND TRANSBOUNDARY CAPACITIES • IMPACT OF PRICES AND REGULATION • RENEWABLE RESOURCES • SOLUTIONS COMPATIBLE WITH NEW ENERGY POLICY FOR EUROPE

**Jiří MAREK, Ľubos TOMÍK** congress chairman and vice-chairman – welcome address and congress opening

**Marián SUPEK** General Director, Department of Water and Energy Resources, Minister of the Environment of the Slovak Republic, Bratislava



notes on the theme  
ENERGY AND ENVIRONMENT – LOOKING FOR THE HARMONY



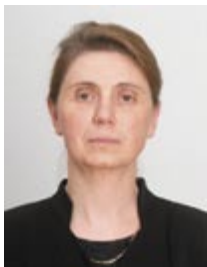
**František PECHO** Director for Production, LIV Elektra plc., Bratislava



### CONTRIBUTION AND COMMENTS DEVELOPING THE CONGRESS' BASIC THESIS

After graduating the Slovak University of Technology, Faculty of Electrical Engineering he started to work in power companies SEP, š.p., later in ZSE, a.s. and SE, a.s.. Since 1991 he was preparing the project Datagyr C500 – the system for long-distance data collection from electrometers of power plants, cross-border lines and the consumers directly connected to the transmission grid. After system completion he managed its operation. He worked also in international committees and took part on connecting of Slovak transmission grid to European grid. After the institutionalizing of the transmission grid operator (SEPS Company) in 2001 he worked on position of managing director for investments, later for IT and telecommunications; he managed a Slovak dispatch centre and operation; at the same time he was Member of the Board of Directors. He took part on all important Company projects from the beginning till October 2006. Leaving the SEPS Company, he provided consultancy services in OKOnet, a.s. At the present time he is the director of LIV Elektra a.s. operating in the field of construction and reconstruction of electric stations.

**Růt BÍZKOVÁ** Deputy Minister of the Environment of the Czech Republic, Prague



#### EMPHASIS ON THE ENERGY EFFICIENCY AND REASONABLE USE OF RESOURCES – OPTIMAL WAY TOWARDS THE REDUCTION OF ENERGY IMPACT ON THE ENVIRONMENT

*High energy efficiency = quality of the environment + competitiveness*

After graduating the Institute of Chemical Technology, Prague since 1981 she had been working in the Nuclear Research Institute in Řež, Department of Radiofarmacology and Instrumental Analysis Methods of Nuclear Materials. During 1986-1988 she completed a post gradual study of mathematics and in 1993 a fellowship at the International Atomic Energy Agency in Vienna. Since 1993 her carrier had been focused on environment and power industry. In 1994-1998 she has been working as a spokeswoman of ČEZ coal-fired power plants, then as a Public Relation Department Directress at the Ministry of the Environment and since 1999 as a Head of Industry Policy International Aspects Department and as an advisor of the Deputy Minister for power industry, metallurgy and civil engineering at the Ministry of Industry and Trade. Since 2004 she had been working in Czech Environmental Information Agency (CENIA), recently at the position of Deputy Directress. Since September 2006 she is a Directress of Economy and Environmental Policy Section and Deputy Minister of the Environment. Many of her works have been published – she is the principal author of the publication „The Environment of the Czech Republic 1989-2004“, analyses of industrial sectors and power industry development, mainly in relation to the environmental protection.



**Ladislav JEDINÝ** Deputy Director, Electricity Regulation Department, Regulatory Office for Network Industries, Bratislava



#### NEW REGULATORY ACT AND ITS IMPACT ON PRICING; INTERPRETATION OF NEW REGULATORY PRINCIPLES

*To achieve transparent and objective price creation in network industries by means of system's solution of the regulatory framework*

In 1971 he graduated Faculty of Mechanical Engineering, Slovak Technical University in Bratislava (Thermal and Nuclear Machines and Equipment), and during the post gradual studies he studied operation of nuclear power plants at the Faculty of Electrical Engineering. After graduation the University he worked in Energoprojekt Praha, š.p., branch Bratislava, later in Energoprojekt Bratislava, a.s.. In 1995 he worked for Energoprojekt Slovakia, a.s., then for SES-Energoprojekt Bratislava, s.r.o.. Since 2001 he is the employee of the Regulatory Office for Network Industries, where currently he is in the position of Deputy Director of Electricity Regulation Department.

**Tomáš HÜNER** Deputy Minister of Industry and Trade of the Czech Republic, Prague



#### CZECH ENERGY CONCEPT AND CHALLENGES OF THE EUROPEAN ENERGY POLICY

*Czech power energy is permanently built on coal and nuclear power plants. New energy policy for Europe does not reject it, on the other hand puts emphasis on renewables. What is possible and what energy future is coming to the Czech Republic?*

He graduated in the field of Thermal and Nuclear Machines and Equipment, Technical University in Brno. From 1984 to 1994 he worked at the Dětmarovice power plant and by the end of his time there he held the position of deputy director for generation. From 1994 to 2002 he managed the company Severomoravská energetika, a.s. (North-Moravian Distribution Co.) in the position of Chief Executive Officer and Chairman of the Board of Directors. In connection with it he held a number of positions in boards of energy and financial companies, and public institutions, too. In 2002 he became a consultant for the company AP&P, which amongst other things carried out the restructuring of the joint-stock company Slovenské elektrárne. Since 2004 Tomáš Hüner has held the post of Country Manager of the company ČEZ in Bulgaria. From 14th September 2006 he is in the position of the Deputy Minister of Industry and Trade of the Czech Republic. Since the September 2006 he is Chairman of Supervisory Board of ČEPS (Czech Transmission Grid Operator) and Vice-Chairman of Supervisory Board of ČEZ.





**Miroslav JARÁBEK** Principal State Advisor, Ministry of Economy of the Slovak Republic, Bratislava



## ENERGY SECURITY STRATEGY FOR THE SLOVAK REPUBLIC

*What is the price to feel the energy security? Has the mankind enough sources to reach the energy security?*

After graduation of the Slovak University of Technology, Faculty of Electrical Engineering in Bratislava in 1984 he started to work in the company ČSD Notification and Security Distance Bratislava. In 1989 – 1992 he was a head of Club of scientific and technical activities, where he was responsible for education in the field of electrical engineering, electronics, computer and audiovisual techniques. Later he worked at the Regional Mining Office in Bratislava as the mining inspector in the field of selected technical equipment. In 1986 he was assigned in the position of an advisor of the General Director for Energy at the Ministry of Economy. As the Principal State Advisor in the Dept. of energy policy he deals with the topical problems of energy policy and strategy.

**Rodolphe „Skip“ M. VALLEE** H.E. Ambassador of the U.S.A. in the Slovak Republic

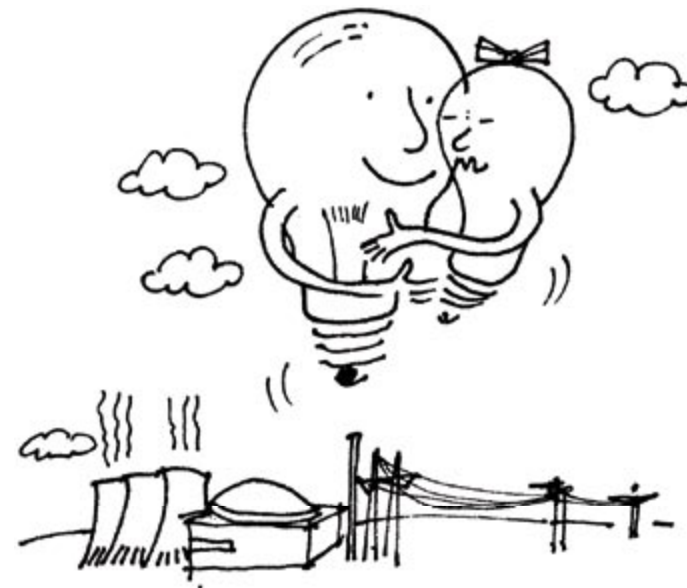


## ALTERNATIVE ENERGY AND ENERGY SECURITY IN SLOVAKIA AND EXPERIENCE FROM THE US

Rodolphe “Skip” Vallee arrived in Bratislava August 11, 2005 to take up his duties as Ambassador Extraordinary and Plenipotentiary of the United States of America to the Slovak Republic.

Previously, Ambassador Vallee served as Chairman, CEO, and owner of R. L. Vallee, Inc., a Vermont-based energy company that includes the “Maplefields” convenience store chain, a top regional motor fuels distributorship, and an environmental remediation and consulting unit. Prior to that, he worked in executive positions for several companies involved in the development and operation of trash, biomass, hydro and other renewable energy facilities.

Ambassador Vallee began his political career in 1982 as a regional campaign manager for U.S. Senator Robert T. Stafford and later served as a staff assistant of the U.S. Senate Subcommittee on Education. Active in Vermont and national politics, Ambassador Vallee was appointed by President Bush to the Advisory Committee for Trade Policy and Negotiation in 2001, served as a member of the Republican National Committee from 1999-2004, and chaired the Vermont delegation to the 2004 Republican National Convention. The Ambassador received a Bachelor’s degree in biology (with a concentration in environmental studies) in 1982 from Williams College in Williamstown, Massachusetts, where he was captain of the varsity hockey team. He received a Master’s degree in Business Administration in 1986 from the Wharton School at the University of Pennsylvania, where he focused his studies on energy deregulation and investments in alternative sources of energy.



**Peter STANĚK** Advisor to the President of the Slovak Republic, Bratislava



#### CLIMATIC CHANGES AND THE IMPACT ON FUTURE ENERGY OPERATION IN THE EUROPEAN

*Obligation of future is to be dangerous*

After graduating the Economic University he started to work in Research Institute of Economy of Education, since 1981 he worked in the Czech-Slovak Research Institute of Labor and Social Affairs. He was dealing with policy on labor market. In the Economic Institute he worked in the field of bankruptcy, conversion, economic policy and international corporations. He worked as the economic advisor of Prime Minister, later as the state secretary at Ministry of Economy. Since 1999 he is working at the Institute of the Slovak and World Economy. Since 2002 he is external advisor of Minister of Economy for industrial and economic policy and since 2004 external advisor of Slovak President and external advisor of Slovak Prime Minister, too.



**Zdeněk FOUSEK** Director of Power Trade, Czech Coal plc, Prague



#### TRADITIONAL TRADING OPPORTUNITIES AND NEW ENERGY CHALLENGE

*Traditional energy supply in inland regions becomes an insufficient challenge at energy market anymore. Entering new territories with new products and mutual recognition of new trade partners represent not only new challenges, but also new risks and opportunities „to fail“.*

He graduated the Czech Technical University, Faculty of Nuclear and Physical Engineering in Prague. He launched his professional carrier in 1986 in the company ČEZ, since 1993 he has been working at the Ministry of Industry and Trade of the Czech Republic. During 1997-1999 he was in charge of the Czech negotiation team preparation for negotiation the access conditions of the Czech Republic to EU in the field of power industry and in 1999 he successfully lead the team through the EC screening. He entered the group Czech Coal after completing this mission. In the group Czech Coal he was responsible for establishment of electricity trade unit (2001) and up to the present day he is a head of this unit. He is also a member of the Czech Coal Board of Directors.

**Martin TOVÁREK** Manager, Arthur D. Little, Prague



#### THE ROLE OF RIA ("REGULATORY IMPACT ASSESSMENT"): CASE EXAMPLE – ENVIRONMENTAL TAX REFORM IN THE CZECH REPUBLIC

*Before adopting any important decision of regulatory authorities it is unavoidable to analyze carefully their potential impacts as the experiments in this field are usually very expensive and painful.*

Graduated from Economic Faculty, Technical University of Ostrava in 1999. As a management consultant, he has been actively involved in the energy sector since 2000. Before joining Arthur D. Little, he worked for several other consultancies, such as Mondus, Euroenergy or KPMG Czech Republic. At Arthur D. Little, he works both as a Manager for Energy and Utilities practice and Head of the European Competence Center for Regulation. His existing professional career includes a multitude of projects in electricity, natural gas and heating sectors in various European countries, particularly in the Czech Republic, Slovakia, Germany, Romania, Bulgaria and Serbia.

**Jiří FEIST** Director of Development, ČEZ, Prague



#### STRATEGY OF ČEZ FOR THE NEXT TEN YEARS - KEEPING THE LEADING POSITION IN THE CENTRAL EUROPE AND THE PROVISION OF SAFE AND RELIABLE POWER SUPPLY FOR ITS CONSUMERS – HOW TO DEAL WITH IT?

*To become a leader on the electricity market in the Middle and Eastern Europe*

He graduated the Czech Technical University with specialization in electro-power industry. In 1986 he started to work for Czechoslovak national dispatch centre in the unit of transmission system operational planning. Since 1990 he has been working in ČEZ in the network development unit. After institutionalizing of the ČEZ transmission system he became a director of Transmission System Development and Construction Section, in 1996 a director of ČEZ Dispatch centre (since 1999 ČEPS, a.s.) and in 2002 a director for ČEPS strategy. Since 2004 he has been working in leading positions of ČEZ, a.s. During 1993 – 1996 he was a project leader of the Czech transmission system connection to UCTE. He was a member of UCTE technical committees for interconnection of Ukrainian company and CENTREL to UCTE and for interconnection of Balkan countries to UCTE and was a vice-president, member of the CENTREL Board and Steering Committee. In 2002 – 2004 he was a member of UCTE executive committee and a chairman of UCTE executive team for interconnection North-South UCTE.

**Péter KISS** Partner, KPMG Tanácsadó Kft., Budapest



#### PATH FROM ELECTRICITY IMPORTER TO THE BALANCED ENERGY SUPPLY – THE BIGGEST CHALLENGE FOR HUNGARIAN ENERGY SECTOR

*Hungary is lack of natural resources for producing electricity. However, it has comparative advantage: It has a long standing good relationship to Ukraine, the biggest natural gas transit country in the world. This advantage is planned to be utilized to ensure security of supply of Hungary and the surrounding countries to the extent it is needed.*

As a partner of KPMG Hungary, he is responsible for advisory services in energy and utility sector in Hungary and coordinator of such services within KPMG Central and Eastern Europe (KPMG CEE). He was graduated as a mechanical engineer. He started his advisory carrier at Andersen in 1990, where he worked as an auditor and performed numerous business and financial due diligence works for investors. He started to build up the business consulting practice in 1997 where he decided for specialization in the energy and utility sector. He performed many post acquisition work at electricity and gas distributors, power plants. He worked through the preparation phase of the liberalization of both the electricity and the natural gas sectors. His team developed the commercial code for the Hungarian electricity market. He and his team joined KPMG in July 2002.

Since then he has been working with the participants of the whole energy supply chain including eligible customers to make them successful on the open energy market. In the meantime he has finished his executive MBA studies at Warwick Business School.

**Karin REISS** Project Manager, Austrian Energy Agency, Vienna



#### THE AUSTRIAN ENERGY PARTNERSHIP WITH SLOVAKIA: STRATEGIES, EXPERIENCES AND BEST PRACTICE - CASE STUDIES

*Our mission is to promote rational use of energy and stimulation of renewable energy sources and of innovative technologies.*

Karin Reiss is currently working at the Austrian Energy Agency in the Department of International Cooperation. Her main expertise is in regard to projects in the frame of the Austrian Energy Partnerships with CEE countries. The Energy Partnerships are based on a Memorandum of Understanding between the Austrian Government and the Government of the respective country (SK, CZ, UA, SLO, BG and RO). The bilateral Partnerships are implemented by the Austrian Energy Agency on behalf of the Austrian Federal Ministry of Agriculture and Forestry, Environment and Water Management. As the Project Manager of the 'Austrian Energy Days' abroad, Karin Reiss is responsible for the coordination of various stakeholders and Austrian companies in order to support their establishment on a new market. Karin Reiss studied Political Science at the University of Vienna with an annual specialization on EU and

International Politics at the Université Catholique de Louvain in Belgium.





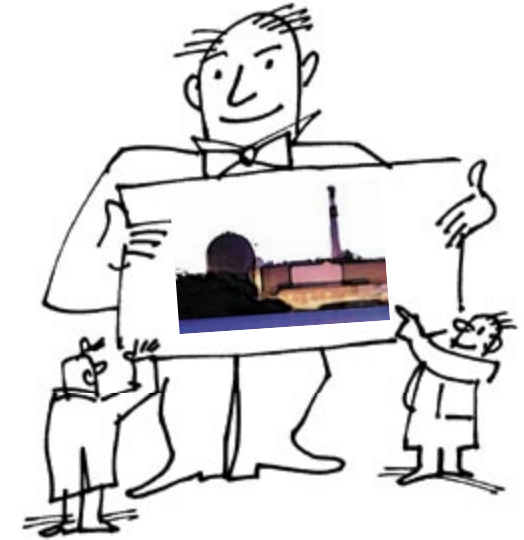
**Nicola COTUGNO** Director of Power Division, Enel – Slovenské elektrárne, a.s., Bratislava



#### NEW INVESTMENTS OF ENEL-SE, A.S.

*Enel investment in Slovakia will contribute to reliability of the electricity supply*

After graduation (Mechanical Engineering, 1989) he served as Officer of Italian Navy. From the year 1991 he worked with different responsibilities in thermal generation area of ENEL. Between 2000 and 2005 he coordinated development of Energy Management area of INTERPOWER, and was in charge of Metering and Settlement and Fuel Management of ENEL Produzione. In 2005 he became the Director of Energy Management of Enel-Viesgo (Madrid-Spain) and year ago was appointed as Director of Power Division of Enel – Slovenske Elektrarne.



## festive social evening

*Festive social evening on the congress occasion was held in all premises of Pálffy Palace*





Award giving to the winners of the student's contest called for the topic:

**EUROPEAN ENERGY POLICY AND ITS DYNAMIC FEATURES – EFFICIENCY OF ENERGY USE, DECREASING GREENHOUSE GASES EMISSIONS, RENEWABLE ENERGY SOURCES USE, ECOLOGIC TAX REFORM ...**

took place during the evening's program.

*The works were evaluated by the following experts:*

*Andrea Šagátová, Slovak Technical University, Bratislava*

*Martin Grešš, Economy University, Bratislava*

*Jiří Marek, JMM consulting, Praha*

*Ľuboš Tomík, CESys, Trnava*



Topic thesis were prepared by **Martin GREŠŠ**,  
Economy University, Bratislava

After graduation at the Economy University in Bratislava (2001) he started his career of university teacher – Assistant Professor (Chair of Diplomacy and International Relations of EU Bratislava). During the year of 2001 he was associated with Office of Government (tasks of communication strategy and availability of information connected with the constitution of EU info-line). In the framework of teacher's mobility he was in Finland, and he finished long-term language course in India. As scientist – teacher he deals with the problems of oil and he

holds the lecture "Oil in the world economy". He writes contributions to the conferences focused on oil problems.



Results of the contest were presented by **Andrea ŠAGÁTOVÁ**,  
Slovak Technical University, the youngest Associate Professor  
in Slovak Republic

After graduating from the Faculty of Electrical Engineering and Information Technology of the Slovak University of Technology in Bratislava she started her PhD study at the Department of Nuclear Physics and Technology of the Faculty. She completed her study successfully in the year 2005 and was awarded the Prize of the Rector of the SUT. Consequently, she started working as an assistant professor at the Department of Nuclear Physics and Technology. In the

year 2007 she reached an associate professor position in the field of Electro-Technology and Material Science.





## RESULTS:

### CATEGORY A – STUDENTS FROM ECONOMICAL UNIVERSITIES

#### **1<sup>st</sup> prize:**

**Štefan MADURA** – Faculty of International Relations, Economy University, Bratislava

CHALLENGES OF THE NEW ENERGY POLICY FOR EUROPE

#### **2<sup>nd</sup> prize:**

**Ján IRŠA** – Faculty of International Relations, Economy University, Bratislava

ENERGY EFFICIENCY AND RENEWABLE ENERGY SOURCES USE IN EU AND IN SLOVAKIA

#### **3<sup>rd</sup> prize:**

**Miroslava ČERNÁ** – Faculty of International Relations, Economy University, Bratislava

EUROPEAN ENERGY POLICY AND ITS DYNAMIC FEATURES

### CATEGORY B – STUDENTS FROM TECHNICAL UNIVERSITIES

#### **1<sup>st</sup> prize:**

**František FÜLÖP** – Institute of Power Energy, Slovak Technical University

EFFICIENCY OF ELECTRICITY USE IN PUBLIC LIGHTING – LED LIGHTING FOR OUTDOOR USE

#### **2<sup>nd</sup> prize:**

**Kristián BARÁT** – Faculty of International Relations, Economy University, Bratislava

PRODUCTION OF ENERGY BIOMASS – NEW OPPORTUNITIES OF THE RENEWABLES USE FOR THE SLOVAKIA AND FOR EU

#### **3<sup>rd</sup> prize:**

**Linda LIESKOVSKÁ** – Institute of Power Energy, Slovak Technical University

EVALUATION OF THE LIGHTING INFLUENCE ON THE BUILDING'S ENERGY EFFICIENCY



ERASMUS



Wednesday, June 6, 2007 – morning

## ELECTRICITY AND ENERGY SOURCES DEMAND • ROLE OF NATURAL GAS IN POWER SECTOR • POSSIBILITIES FOR RE-DEFINING OF ENERGY STRATEGIES AND MARKET PRINCIPLES • LESSONS LEARNT FOR EUROPE • OPPORTUNITIES OFFERED BY NUCLEAR POWER AND ITS RENAISSANCE

**Libor LÁZNIČKA** Project Manager, Sféra, a.s., Bratislava



### INFORMATION AND DATA EXCHANGE ON THE ELECTRICITY OPEN MARKET

*Integrated and coordinated data exchange is a basic qualification of the well-functioned electricity market.*

Since 1995 up to the present day he is working in the company Sféra, a.s. Till 2003 he worked as a programmer analyst, where he was dealing with the development of information systems and their application modules. After graduation the Comenius University, Faculty of Mathematics and Physics in Bratislava he started to work as a manager of electricity trade projects. In 2005-2007 he graduated the Open University Business School (Professional Certificate in Management) and at the present he is studying the International Business School (MBA Senior Executive) in Brno. He is a holder of number of certificates in IT branch.



**Rainer GROSSERICHTER** Managing Coordinator, TÜV ENERGIE CONSULT, Munich



### THIRD PARTY SERVICES – A VITAL CONTRIBUTION TO NUCLEAR TECHNOLOGY IN SLOVAKIA

*Cost-effectiveness, quality and safety, compliance with regulations and public acceptance have gained growing importance for the decision-makers of the parties involved. Neutral expertise and the handling of gained experience together with the possibility to offer technical assistance were combined in so-called Third Party Services. The presentation gives a short compilation of fields of activities, scope of services and benefits to the customers.*

Graduated at Technical University of Munich (Dipl.-Ing. in Process Engineering, 1970). He started his career in Gesellschaft für Reaktorsicherheit (GRS), as Scientific Engineer. Since 1974 till today he is with TÜV Süd, Munich. He shared in evaluations and expert opinions on safety of nuclear facilities in licensing procedures of German NPPs. Between 1982-6 he was coordinating manager for supervisory procedures of Nuclear Facilities in Bavaria on account of the Bavarian Nuclear Safety Authority (Quality Assurance in nuclear facilities). Since 1986 he is responsible for international nuclear activities of TÜV Süd, and since 1992 he is Managing Coordinator of TÜV ENERGIE CONSULT, the consortium of German TÜV organizations for international activities in nuclear technology. Between 1990 and 2003 he participated in miscellaneous projects of the European Union in consulting of Nuclear Safety Authorities in Middle Eastern and States (MEE) and the Russian Federation (CIS) and worked as Project Manager for diverse consulting projects on behalf of the German Ministry for Environmental Protection and Reactor Safety in MEE. He took part on IAEA mission 1987 in Korea, was a Lecturer in the Professional Training Course in Nuclear Safety of the IAEA in Saclay, and Consultant to Korean utility KHNP on diverse design issues.

**Ján PIŠTA** Director of Purchase and Management of Portfolio, SSE (Central-Slovakia Power Co.), Žilina



### SLOVAK ENERGY MARKET - PRINCIPLES, RESTRICTIONS AND EXPECTATIONS

*Open electricity market in Slovakia became a reality. All necessary institutions exist, the same as basic and complementary laws and rules providing the legislation framework for electricity trading. After the two years of market operation, there is need to improve some rules and principles. The low liquidity of the Slovak market limits its function, and situation is going to decrease in connection with the cross-border capacity problems (mainly on ČEPS – SEPS profile) and decommissioning of the second unit of V-1 NPP in 2008.*

He graduated in Physics of Solid Materials (Faculty of Mathematics and Physics, Comenius University in Bratislava, 1988). After that he was associated with Electrotechnical Institute of SAV, and from the year 1990 he has worked in Stredoslovenská energetika, Žilina. His career he started as programmer – analyst with the project of Customer Information System (CIS) and automation of electronic meter reading by means of hand terminals. He became the specialist for reading, metering and outsourcing of that, and for development and implementation of internet transmission of metered data. From 2005 he was specialist for trading systems and he was a leader of complex system for electricity trading, the same as the number of other projects concerning of the electricity market. He participated on the creation of the energy legislation, methodology and rules of electricity market.



**Vladimir STARIRADEV** Director Energy Strategy, Ministry of Economy and Energy of the Republic of Bulgaria, Sofia



#### BULGARIAN ENERGY POLICY AND MEASURES REFLECTING THE NEW ENERGY POLICY FOR EUROPE

*Energy producers, consumers, transiting countries, all are highly interdependent. Producers need secure markets and routes to reach them as much as consumers need secure energy supply.*

He has Master's degrees in Economics and Management, Thermal and Nuclear Power Engineering and European Integration. He started his career as Research Fellow and Lecturer in 1980 (Thermal and Nuclear Power Engineering Dept of the Technical University in Sofia). From 1993 till 1997 he worked in Bulgarian Committee of Energy - consecutively as administrator of PHARE energy projects, Head of PHARE Energy Project Management Unit and Head of European Integration Dept., and from 1998 as Commercial Director and Project Manager in charge of planning, appraisal and management of international projects - renewable energies and energy efficiency in ESD-Bulgaria Ltd.

in Sofia. From 2000 he is appointed consecutively as Head of Dept and Director in charge of European Integration and International Projects and Cooperation in State and Agency/Ministry of Energy and Energy Resources and since 2006 as Director Energy Strategy of Bulgarian Ministry of Economy and Energy. Between 1995 and 2007 he was representative of the State in the Boards of Directors/Supervisors of the following companies (consecutively): Industrial Energy - VT Plc, District Heating - Varna Plc, Maritsa East 1 TPP, Brikel Plc, Electricity Distribution - Sofia Plc.



**Dušan RANDUŠKA** Director of Gas Trade Dept., SPP (Slovak Gas Co.), Bratislava



#### NATURAL GAS AS THE STRATEGIC ENERGY RESOURCE – HOW TO CONTINUE ON THE GAS MARKET?

*Safety and security of natural gas supply are the main priorities of SPP, a.s. Stable and predictable legislative environment on the Slovak gas market is an assumption for successful implementation of these priorities.*

In 1986 he graduated the University of Economics with specialization on foreign trade economy. During 1995-1997 he graduated MBA study at the Webster University in Vienna. Since 1987 he has been working in the gas industry (Metalimex a.s. Praha, OMV AG Wien). Since 2001 he is a member of top management and division director of gas trade in the company SPP, a.s. and is responsible for purchase, sale and storage of natural gas for SPP needs.

**Pavel MARTÍNEK** Vice-President for Marketing, Vemex Ltd., Prague



#### CZECH GAS MARKET LIBERALIZATION – OPPORTUNITY FOR ENTRY OF NEW TRADER

*Creation of competitive environment in gas industry has significant limitations. Even though it is feasible.*

He graduated the University of Economics in Prague with specialization on industry economy. In 1973-1998 he had been working in foreign trade – in Škodaexport – export and import of investment units for nuclear power industry including the nuclear fuel import. Since 1998 he had been working at the Ministry of Industry and Trade in the position of property administration and privatization director. During 1998 – 2002 he became a state representative in Supervisory Boards of companies Vítkovice, a.s., Středočeská energetická a.s., Severočeská energetika, a.s. and Severomoravská plynárenská, a.s.. He also worked in governmental committees for privatization of strategic companies. In 2001 he became a head of the company strategy in RWE Transgas, a.s. Since 2005 he is a vice-president of the company VEMEX s.r.o., Praha, which is the first alternative trade company with natural gas in the Czech Republic.





**Heinz-Josef PREHLER** Director, Sales I&C and Electrical Systems, AREVA NP GmbH, Offenbach



#### I&C AND ELECTRICAL SYSTEMS FROM AREVA – YOUR SAFE INVESTMENT OVER A LONG PERIOD

*New-build and completion projects but also major upgrade packages require high levels of investment over long periods. The systems deployed make a crucial contribution to ensuring these investments in the long-term. In the field of I&C and Electrical Systems AREVA NP has developed and implemented concepts that ensure long-term security of investment and planning reliability with regard to quality, time schedule and budget for our customers.*

He got Diploma in Electrical Engineering from Giessen Technical University in Friedberg, Germany and started his uninterrupted employment with Siemens. From 1970 he worked on design, analysis and licensing of electrical systems and components (e.g. switchgears, transformers, emergency diesel, rectifiers, converters, batteries, cables, synchronizers, automatic changeover) including preparation of interfaces to the I&C for German BWR and PWR nuclear power plants. At 1980 he became the project manager in charge of modernization of Electrical Systems and I&C in nuclear power plants in Germany and Switzerland, and at 1987 he got the position of Sales and Project Manager and principal section leader in charge of investigations, studies, offers on Electrical Systems and I&C for VVER nuclear power plants in Russia, Ukraine, Bulgaria, Czech Republic, Slovak Republic, Hungary, Germany. From 1993 he is Head of department NLAA-G within AREVA NP, in charge of business development and sales of large I&C and Electrical Systems projects for nuclear power plants in foreign countries. A very significant activity in the last couple of years is the introduction and application of digital I&C into nuclear power plants. He has wide experience with the most recent large-scale projects involving digital I&C and Electrical Systems and tools for the purpose of modernization of NPP's in operation and erection of new NPP's.

**Jozef MIŠÁK** Director for Strategy, Institute of Nuclear Research Řež



#### NUCLEAR ENERGY – REGRESSION OR RENAISSANCE?

*Could be Europe in the year 2100 self-sustaining in energy? Sure, but not without nuclear power.*

JHe graduated ČVUT, Faculty of Nuclear and Physical Engineering. His 36 years long performance in the field of nuclear power industry is focused on research and engineering support for safety principals implementation during design and operation of NPPs. He is interested in development of computing programs and implementation of accident analysis for WWER reactors. He has long lasting experience from several leading positions in the field of nuclear safety. During 1971 – 1993 he worked in VUJE (NPP Research Institute). During 1993 – 1997 he worked as the first Chairman of Nuclear Regulatory Authority of SR. Till 2004 he was with IAEA in Vienna, where he worked in the field of elaboration of safety standards and guidelines for NPP accident analysis. At the present time he is the director for strategy at the Nuclear Research Institute in Řež.

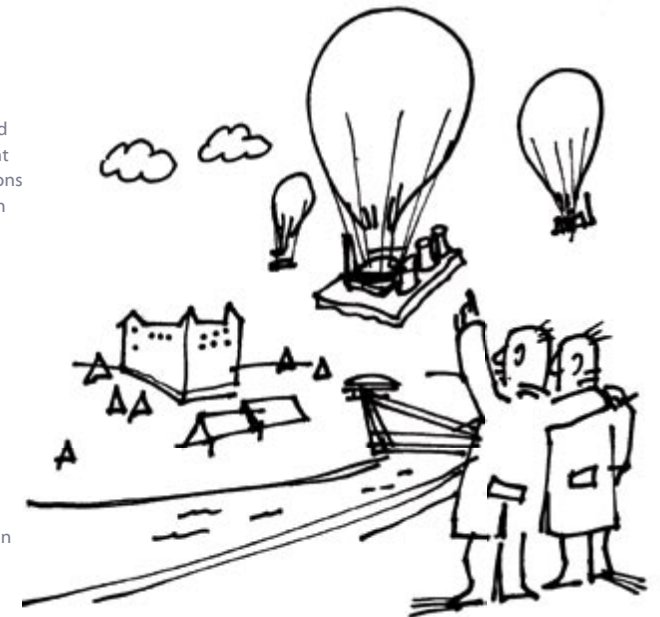
**Pavol LUNTER** project Manager, PTD/PG, Siemens Ltd., Bratislava



#### SIEMENS TECHNOLOGY AND THEIR INPUT FOR MORE EFFICIENT USE OF PRIMARY ENERGY SOURCES

*Supplies of most used energy sources are limited, consumption is still increasing – it is the time to use them effectively.*

Pavol Lunter graduated the Slovak University of Technology in Bratislava, Faculty of Mechanical Engineering with specialization on thermal power industry and environment technology. Then he worked as a designer i the company IDO Hutný projekt. Since 2003 he has been working in Siemens, Ltd. as a project manager in the field of power generating equipment and renewable energy resources.



**Jozef HUTTA** Director of the NPP V-1 Operation Dept., "JAVYS" (Nuclear & Decommissioning Co.), Jaslovské Bohunice



#### STRATEGIC PLANS OF "JAVYS" IN SLOVAKIA

##### *Challenge for JAVYS – safe decommissioning of V-1 NPP and its replacement*

He graduated the Slovak University of Technology, Faculty of Electrical Engineering in Bratislava. In 1964 he started to work in Atómové elektrárne Bohunice, where he has been working up to now in several positions. Since 1980 he has been dealing with V2 NPP operation preparation. In 1988 he entered into a position of nuclear safety deputy director, in 1996 into a position of deputy director for technical support and security. Since 1 January 2005, after the first phase of company restructuralization he had been working as a head of SE-EBO security department. On 1 February he was nominated to the position of SE-EBO V1 NPP director and since 1 March 2006, after foundation of V1 NPP branch, he worked as its director.

**Boris BARTALSKÝ** Managing Director, Kremnica GOLD, a.s., Banská Bystrica



#### URANIUM MINING IN SLOVAKIA

##### *Will Slovakia use its energy sources potential?*

Since 1984 after graduation the Technical University, Faculty of Mining in Košice he had been working as a geologist in Geologický prieskum, š.p. In 1995 he was a general director of Slovenská geológia, š.p. Since 1996 he was in the position of a deputy director for applied geology and head of regional centre in Geologická služba. He worked as a survey works manager in the field of geological survey and environmental geofactors, he coordinated projects of gold survey, was responsible for obtaining rights and permissions, for environmental projects coordination, for establishment of suitable conditions for foreign experts, for commercial administration of the Slovak company owned by Canadian company. He elaborated analysis reports on economical, mining and geological legislation of the Slovak Republic. Since 1997 he is a director and a member of the Board of Directors of the company Kremnica Gold, a.s. The company is investing into the project of survey and mining of rare metals, uranium and other metals. He was working in various international programmes and projects.



Congress Chairman

**Jiří MAREK** Executive Head, JMM consulting, Prague



He is the consultant in the field of power industry and is the Executive Head of JMM Consulting, Ltd. – company focused on advisory services and organization of professional actions. After graduating ČVUT, Faculty of Technical and Nuclear Physics he worked in research, since 1974 has been working in power industry field (since 1996 in ČEZ). Last 15 years he was the advisor of Minister of Industry and Trade, chairman and vice-chairman of Supervisory Board in ČEZ, member of supervisory boards in several energy distribution companies and advisor of Deputy Ministers of Finance. Relating to this he was dealing with reorganization of state administration in power industry, with development of state energy policy, with establishment of State Office for Nuclear Safety and with preparation of Czech power industry privatization.

He is occupied by publication activities, mainly in the field of nuclear power industry,

has wide experience in organizing of international and specialized professional conferences and meetings. His positions are stated in TV, broadcast and economic periodical magazines.

Congress Vice-Chairman

**L'uboš TOMÍK** Director, CESys, Trnava



Director of consulting company CESys, Ltd., – working in the field of energy. After graduating ČVUT, Faculty of Engineering with specialization on nuclear energy he worked in SE, a.s.. During establishing of Nuclear Regulatory Authority of the Slovak Republic he worked in the field of probabilistic safety assessment. He gained experience in abroad in number of energy companies. During last years he worked as manager in foreign IT companies solving the opening and deregulation of Slovak energy market. During the period of 2002 – 6 he was managing director of CENS (Centre for Nuclear Safety), international company working on the region of Central and Eastern Europe. Regarding the SE, a.s. privatization he is author and co-author of various studies performing energy market scenario modeling, i.e. Feasibility Study on NPP Mochovce 3 and 4 Completion for Ministry of Economy of the Slovak Republic.









Remote controlled vehicle DOV9 was designed and manufactured by AllDeco Ltd. as a unique device for cleaning of the tanks with high-level activity sludge and can be possibly applied in nuclear and chemical industry. The vehicle is designed as self-working unit making the operations while being remotely controlled. It can overcome high barriers and rugged surface which occurs at the bottom of the tanks (pipes, partitions). This is possible due to individual electric engines of every track and possibility to rotate front and back module tracks by 360 degrees.

The vehicle is composed of movable elements, hydraulic arm and other components applied according to particular works. Opportunities of its application are e.g. monitoring of crowded condition, taking the samples for identification, removal of sludge by sucking or by high-pressure admission, identification and transfer of unknown objects. Operators can control the vehicles by the camera system on the top of vehicles or by the external cameras. Activity of the vehicles is monitored and inspection video record can be provided. Rotary hydraulic arm is able to work with different tools and to carry a load, as well.





# EN•KO 2059

The Governmental proposal of the pension reform anticipates the age to be retired on 85.

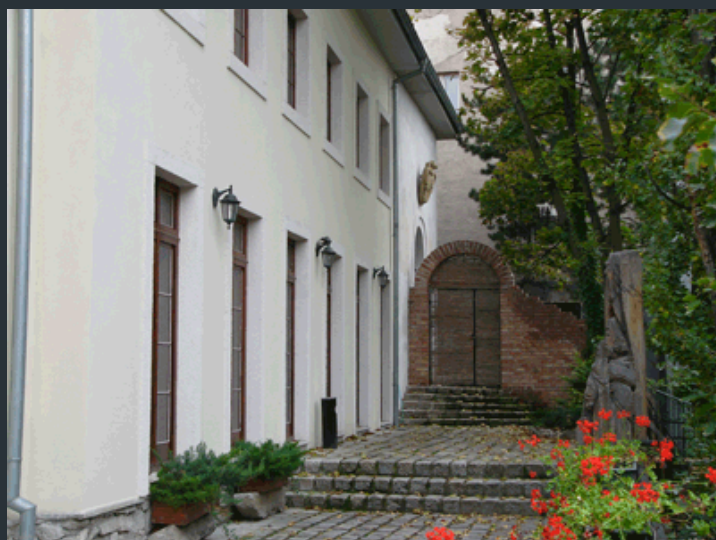
With respect to that  
the ENKO 2059 will likely be prepared  
this way:

Staffs of ERASMUSLtd  
prepare the 55<sup>th</sup> Annual  
ENKO Congress



Director of JMM consulting  
completes the list  
of participants  
of ENKO Congress





**PÁLFY PALACE, BRATISLAVA, ZÁMOCKÁ ULICA**





Pálffy Palace  
Zámocká ulica  
Bratislava