

# National Critical Energy Infrastructure Protection in Europe

European Energy Seminar 29<sup>th</sup> and 30<sup>th</sup> September 2011, Berlin, Germany



#### **EUROPEAN ENERGY SEMINAR**

### National Critical Energy Infrastructure Protection in Europe

#### **Background**

Critical Energy Infrastructures vary within the different Member States of the EU but they have at least one challenge in common: they all are obliged to ensure that they can continue to function in the most adverse conditions. What are the best strategies to manage major energy incidents? How can you establish public-private partnerships to protect critical energy infrastructures? And how to assess and manage risks for critical energy infrastructures the best way?

Preventing Europe from breakdowns of energy infrastructures – whether man-made or natural – is a big challenge for National Critical Infrastructure Protection. The Europe-wide cross-linking of energy infrastructures results both in an immense interdependency of the member states' energy infrastructures and in a high vulnerability of the entire energy system. It is intensified even more by the importance and utilisation of Information and Communication Technology (ICT) for energy infrastructures – a critical infrastructure itself. But how to cope with cyber threats to critical energy infrastructures?

Furthermore, Member States are forced to adapt several EU regulations to ensure protection of their designated European and National Critical Energy Infrastructures, from EU Directive 2008/114/EC being reviewed soon to the requirements for the new safety "stress tests" of Europe's nuclear power plants recently established by EU Commission.

Also, for companies it is essential to guarantee the functioning of their energy infrastructure as damage can not only endanger personnel, but also cause loss in revenue, costs for recovery and renovation as well as a damage to their image.

#### **Teaching Methods**

- Lectures and case studies
- · Best practice reports
- Interactive workshop with group tasks
- Discussions and Q&A sessions
- Rich course material and handouts

#### **Seminar Contents**

The European Energy Seminar encourages stakeholders at all levels of government, private sector and related professions to exchange best practice on European and National Critical Energy Infrastructure Protection (CEIP). Case studies from electricity and gas sector of different Member States as well as best practice reports of Public-Private Partnerships (PPP) will give you inspiration to improve your own system of Critical Energy Infrastructure Protection. Furthermore, you will discuss the challenges and threats for this specific sector — with focus on intersectoral dependencies such as energy's vulnerability to cyber security threats. Also, you will have a look on CEIP on international, EU and national level and learn how to successfully accomplish risk and contingency planning. The event will be complemented by an interactive workshop session including practical group tasks on energy crisis management.

Question and answer sessions as well as plenary discussions provide a perfect platform to identify available resources and improve your strategies to prepare for the next major energy incident or attack. Additionally, you will have the opportunity to network with experts from all areas of Critical Energy Infrastructure Protection from all over Europe and arrange new international models and partnerships.

#### **Your Benefit**

- Avoid power blackouts and protect your citizens and property get specific knowledge on Critical Infrastructure Protection in energy sector and guarantee the functioning of your energy infrastructure
- Learn the latest Critical Energy Infrastructure Protection (CEIP) developments on EU and international level – be up-to-date
- Get best practice examples and case studies from electricity and gas sector as well as on contingency planning – learn from real projects and practice
- Exchange on the current developments of cyber security protect your energy information infrastructures
- Gain knowledge on public-private cooperation learn how to design dialogue between private and public stakeholders
- Save money and resources be more resilient against the unpredictable
- Take part in the interactive workshop apply your newly acquired knowledge immediately
- Get first-hand experience from our experts network and solve individual questions



# EUROPEAN ENERGY SEMINAR National Critical Energy Infrastructure Protection in Europe

#### **Target Group**

Operators of Critical Energy Infrastructures from public and private sector

- Public administration at national, regional and city level responsible for
  - interior affairs
  - energy infrastructure
  - environment
  - civil protection
  - emergency and rescue services
  - defence and public security
  - public communication
- Energy regulatory authorities
- National Energy and Electrical Safety Boards
- National Energy Agencies
- · Military and police forces
- · Rescue and Humanitarian Aid agencies
- Other public authorities responsible for Critical Energy Infrastructure Protection (CEIP), Civil Protection, Civil Contingency, Disaster Assistance, Emergency Management, Energy and Public Security

- · Energy companies and agencies in
  - Electricity sector
  - Gas sector
  - Oil/Petroleum sector
  - Nuclear Power sector
  - Renewable Energy sector

#### such as

- Operators (of power plants, grids, pipelines, transmission systems, Energy Control Centres, Central Command and Network Control Centers etc.)
- · Energy service providers and distributers
- · Network owners
- Power generation companies
- Providers of security solutions, energy storage solutions and other equipment supplies

#### From Departments such as

- Crisis and Emergency Management
- · Security and Safety Department
- · Grid and Transmission Network Management
- Production Site Safety
- · Resilience and Contingency Planning
- · Power Systems Division
- · Risk Assessment and Business Continuity
- · Health and Quality Management
- · Critical Energy Infrastructure Protection
- · Innovation and Technology
- ICT, Telecom and Transport Sector at the interface to energy sector and energy infrastructures
- · Technical equipment providers for safety and security
- Consultancies in the field of CEIP, CIP, crisis management, energy and public security

"Not easy to prepare energy infrastructure protection – still a lot of work to do"

Department of Energy and Climate Change, United Kingdom



## Programme Day 1

### National Critical Energy Infrastructure Protection in Europe

#### 29th September 2011

8.30-9.00

Registration and Hand-out of Seminar Material

9 05-9 10

Opening Remarks from the European Academy for Taxes. Economics & Law

9.10-9.15

#### **Welcome Note from the Chair**

Dusan Zupka, International Senior Expert on Crisis Management and Disaster Risk Reduction/ Former Deputy Chief of Emergency Preparedness Section, United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

9.15-10.00

# Critical Energy Infrastructure Protection (CEIP) on European Level

- Status Quo and Member States' feedback on the implementation of directive 2008/114/EC
- The New Thematic Network on Critical Energy Infrastructure Protection (TNCEIP)
- CIWIN Critical Infrastructure Warning Information Network
- EU wide prescribed nuclear stress tests
- EU funding for CEIP
- Cooperation with Third Countries

# José Antonio Hoyos Pérez, Policy Officer, Critical Energy Infrastructure Protection, DG Energy, European Commission

10.00-10.15 Q&A Session

10.15-10.45 Coffee Break

10.45-11.30

# **Energy – A Special Challenge for National Critical Infrastructure Protection**

- Introduction and overview:
- New Threats for national Critical Energy Infrastructures
- Special challenges for CIP in energy sector
- Interdependencies between different Critical Energy Infrastructures (CEIs) and between CEIs and other CIs (e.g. Intersectoral cooperation and interdependencies with ICT & transport sector)
- Critical Energy Infrastructure Protection (CEIP) on international level:
  - Initiatives in OSCE, UN and NATO
  - Lessons learnt from overseas: CEIP in the USA

Dr. Frank Umbach, Senior Associate and Programme Leader "International Energy Security" at the Centre for European Security Strategies (CESS, Munich-Berlin) and Associate Director at the European Centre for Energy and Resource Security (EUCERS) of King's College, London 1 45-12 30

# A National Grids' Critical Energy Infrastructure Protection

#### Focus: Electricity

- The role of REN in the Portuguese energy system
- National Dispatching Control and Operation Centers
- Power generation plants as National Critical Infrastructures
- National transmission grid over head lines, substations and switching stations
- Interconnections with consumers and abroad
- · Stakeholders for safety and security
- · Case studies SIGECRI exercises
- Cooperation with UNICRI

Óscar Ribeiro, REN – Redes Energéticas Nacionais, SGPS, S.A (Portuguese National Grid), Portugal

12.30-12.45

**Q&A Session** 

12.45-14.00 Lunch Break

14.00-14.45

# How to Manage Risks of Natural Disasters for Critical Energy Infrastructures



- Critical infrastructures perception and sectors of concern
- How natural are natural disasters?
- Impacts of natural disasters on Critical Energy Infrastructures
- The nature of natural hazards and effective management of natural disasters' risks
- Practical exercise: Key questions which the Critical Energy Infrastructure Managers needs to address?

Dusan Zupka, International Senior Expert on Crisis management and Disaster Risk Reduction/Former Deputy Chief of Emergency Preparedness Section, United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

14.45-15.00

Q&A Session

15.00-15.30

Coffee Break



## Programme Day 1

### National Critical Energy Infrastructure Protection in Europe

15.30-16.15

## Coping with Cyber Threats to Energy Control Centres

- Today's cyber threats for energy sector
- Information security requirements for Critical Energy Infrastructure Protection (CEIP)
- The "vulberability parardox": small failures dramatic cascading effects
- Vulnerabilities of Energy Control Centres and other Large Complex Critical Infrastructures (LCCI) control systems
- How to cope with cyber threats to LCCIs
- Using SCADA systems and networks for energy infrastructure
- The strategic importance of the Stuxnet-Virus for future CEIP

Dr. Frank Umbach, Senior Associate and Programme Leader "International Energy Security" at the Centre for European Security Strategies (CESS, Munich-Berlin) and Associate Director at the European Centre for Energy and Resource Security (EUCERS) of King's College, London

16.15-16.30 Q&A Session

16 30-17 00

## Review of the Day and Discussion Round Led by the Chair

Dusan Zupka, International Senior Expert on Crisis Management and Disaster Risk Reduction/ Former Deputy Chief of Emergency Preparedness Section, United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

17.00 End of Day One

"A lot to learn about risk management of natural disasters in energy sector"

Ministry of Infrastructure and Environment, Environmental Safety Risk Management Directorate, The Netherlands

"Really good knowhow exchange"
Ministry of Administration and Interior, Romania



### Programme Day 2

## National Critical Energy Infrastructure Protection in Europe

30th September 2011

8.55-9.00

#### **Welcome Note from the Chair**

**Dusan Zupka, International Senior Expert on Crisis Management and Disaster Risk Reduction Former Deputy Chief of Emergency Preparedness** Section, United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

#### **Public-Private Partnerships** (PPP) to Protect Non-Nuclear Critical **Energy Infrastructures** from Security Threats



- UNICRI's Centre on Public Private Security Policies
- Overall project framework (United Nations Global Counter-Terrorism Strategy, United Nations Counter-Terrorism Implementation Task Force, etc.)
- Basic PPP principles guidelines to facilitate public-private security cooperation
- UNICRI's partnerships and networks
- PPP Handbook a tool to assist the development of PPP
- PPP project: Public-Private Partnerships (PPP) to protect nonnuclear Critical Energy Infrastructures from security threats focus, objectives, activities, partnerships

**Duccio Mazarese, Centre on Public-Private Security** Policies, Security Governance/Counter-Terrorism Laboratory, United Nations Interregional Crime and Justice Research Institute (UNICRI), Portugal

9.45-10.15 **Q&A Session** 

10.15-10.45 Coffee Break

10 45-11 30

#### Critical Infrastructure **Protection for Gas Supply Networks**

- Threats for gas supply networks
- Particular challenges in the gas sector and proposals for solutions
- Impacts on electricity and interdependencies with other CEIs
- · Dialogue between gas providers and national authorities

Michael Gilbert, Director of Energy & Utility Resilience Services Team, Steelhenge's, **United Kingdom** 

11.45-12.30

#### **Today's Major Challenges in Contingency** Planning for Critical Energy Infrastructures **Endangered by Natural or Man-Made Threats**

- Global emergency trends dictate the need for strengthening of contingency planning
- UN Office for the Coordination of Humanitarian Affairs approach to contingency planning and disaster preparedness
- Major challenges of contingency planning for today's' CEIP
- Hyogo Framework for Action 2005-2015 and its Priority Five
- UN OCHA Guidance and Indicator Package for implementing Priority Five of the Hyogo Framework

**Dusan Zupka, International Senior Expert on Crisis** management and Disaster Risk Reduction/Former **Deputy Chief of Emergency Preparedness Section,** United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

12 30-12 45 **Q&A Session** 

12.45-14.00 Lunch Break

14.00-14.45

### **Workshop: How to Manage Major Energy Incidents**

• Group work on a given CEIP scenario

Michael Gilbert, Director of Energy & Utility Resilience Services Team, Steelhenge's, **United Kingdom** 

14.45-15.00 **Q&A Session** 

15.00-15.30 Coffee Break

15 30-16 15

#### **Final Review and Discussion Round**

Dusan Zupka, International Senior Expert on Crisis Management and Disaster Risk Reduction Former Deputy Chief of Emergency Preparedness Section, United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

End of Seminar and Hand-out of Certificates







# Speakers National Critical Energy Infrastructure Protection in Europe



# José Antonio Hoyoy Pérez Policy Officer, Critical Energy Infrastructure Protection, DG Energy, European Commission, Belgium

José Antonio Hoyos Pérez joined the European Commission in 1992, where he has been active in the EU energy policies from various angles: Euratom safeguards inspector; promotion of new energy technologies; nuclear safety projects and decommissioning policy. Since 2004 he was involved in launching the European Programme for Critical Infrastructure Protection in the energy sector. Prior to his engagement in the European Commission he worked in the private energy sector from 1980 until 1992, firstly in engineering aspects of nuclear operations and later in an engineering company where he was responsible for the supply of technology to energy systems. José Antonio Hoyos Pérez holds an M. Sc. in Power Engineering from the Polytechnic University, Madrid, 1979, did his post-grade studies on nuclear technology and holds an MBA from the ICADE Madrid.



#### **Dusan Zupka**

International Senior Expert on Crisis Management and Disaster Risk Reduction/ Former Deputy Chief of Emergency Preparedness Section, United Nations Office for the Coordination of Humanitarian Affairs (UN OCHA), Geneva, Switzerland

Dusan Zupka has more than 25 years of professional experience in disaster and crisis management at international level, mainly in the UN disaster and emergency management system. His involvement in disaster risk management includes field based practical knowledge on protection of economic and social assets including critical infrastructures. He was a Manager and Coordinator of several entities being responsible for covering all phases of disaster risk and crisis management. Furthermore, he has five years of field experience in Latin America.



#### Dr. Frank Umbach

Senior Associate and Programme Leader "International Energy Security" at the Centre for European Security Strategies (CESS, Munich-Berlin, Germany) and Associate Director at the European Centre for Energy and Resource Security (EUCERS) of King's College London. United Kingdom

Dr. Frank Umbach is one of the leading researchers in international energy security, specialising on energy (supply) security, energy foreign policy, safety and security of critical energy infrastructures, geopolitical risks, global energy challenges and maritime security issues. In addition to his positions at CESS and EUCERS, as a consultant he has given advice to various governments and international organisations. In this context he has written several expert analyses reports for the European Union and its Parliament, the US Foreign and Energy Ministry, NATO, the OSCE, U.S.-China Economic and Security Review Commission of US Congress as well as several German, British, Polish and Lithuanian Ministries. Moreover, he is author of over 250 publications in more than 25 countries. Before, Dr. Umbach was a research fellow at think tanks in Cologne (BIOst), Tokyo (JIIA) and Bonn-Berlin (DGAP) as well as consultant in the "Special Advisor for Central and East European Affairs" Office of the NATO Secretary General in Brussels. He studied political science, Eastern European history and international law in Marburg and Bonn and holds a Ph.D.



#### **Duccio Mazarese**

Centre on Public-Private Security Policies, Security Governance/Counter-Terrorism Laboratory, United Nations Interregional Crime and Justice Research Institute (UNICRI), Portugal

Duccio Mazarese is an IUC Faculty Member and officer at the United Nations Interregional Crime and Justice Research Institute, UNICRI. He is a consultant for UNICRI within the Security Governance/Counter Terrorism Unit, since 2004. Prior he worked as a consultant for other international organizations, developing agencies and private companies.

Mr. Mazarese received his LL.B from Università degli Studi di Torino, a Master Degree in Management of Development from the International Labour Organization (ILO) and an LL.M degree from University of California, Hastings College of Law.



# Speakers National Critical Energy Infrastructure Protection in Europe



#### **Michael Gilbert**

#### Director of Energy & Utility Resilience Services Team, Steelhenge's, United Kingdom

Mr. Gilbert joined Steelhenge from a two year attachment to the Department for Trade & Industry (now the Department for Energy & Climate Change (DECC)) advising Government on energy resilience within the UK. Prior to this, Mr. Gilbert held a number of Senior Management roles in National Grid including Head of System Control and Head of Emergency Planning. Here, he developed and implemented the emergency framework enabling National Grid to be capable of responding effectively to any disruptive challenge to the business, in particular disruption to gas and electricity supplies. Since then he has worked closely with a wide range of energy and utility clients. He has developed the Natural Gas Emergency Plan for the Republic of Ireland with Bord Gáis Networks and the National Emergency Plan - Gas & Electricity for Great Britain with DECC. Mr. Gilbert is chartered engineer (MIGasE) with extensive experience and knowledge of the structure and operation of the energy industry.



#### Óscar Ribeiro

## Adviser to the Board of Directors, REN – Redes Energéticas Nacionais, SGPS, S.A (Portuguese National Grid), Portugal

Since 1998 Óscar Ribeiro is adviser to the Board of Directors of REN, the National Grid of Portugal. REN (formerly Rede Eléctrica Nacional S.A.) is the concession holder of the National Electricity Transmission Grid (RNT) and manager of the National Electricity System (SEN). In the field of gas REN is responsible for planning, construction, operation and maintenance of the National Natural Gas Transportation Grid (RNTGN) as well as the storage of natural gas and LNG. The main activity of the company is guaranteeing stability and security of public power supply. Before his advisory activities Óscar Ribeiro was Head of the REN Transmission Quality Department (1994-1998), Head of Northern Transmission Area (1885-1994) and Officer in the Hydro Power Station Control, Protection and Automation Department (1976-1985) at Electricity of Portugal. Óscar Ribeiro holds a degree in Electrical Engineering (University of Oporto) as well as degrees from the Navy School (Navy Officer) and from the Direction Programme (AESE, University of Navarra).

## Strategic Alliance

## National Critical Energy Infrastructure Protection in Europe



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E-Mail: unicri.lisbon@unicri.it Web: http://lab.unicri.it/lisbon UNICRI is a fully-fledged United Nations entity based in Turin, Italy, active in the fields of crime prevention, criminal justice and security governance, able to adapt itself to an ever-changing geopolitical environment thanks to its dynamic, fresh and innovative approach.

Through its Security Governance and Counter-Terrorism Laboratory, UNICRI implements its work within the framework of the United Nations Global Counter-Terrorism Strategy. UNICRI is an active member of the UN Counter-Terrorism Implementation Task Force (CTITF), which represents a mechanism to enhance coordination and coherence of counter-terrorism efforts within the United Nations system.

To complement its assistance to policy-makers, security practitioners and international stakeholders to quickly adapt to new threats and challenges, UNICRI's Laboratory established, in September 2009, the Centre on Public-Private Security Policies in Lisbon, Portugal, with the aim of enhancing the protection of vulnerable targets worldwide, through the establishment of regional initiatives and the identification, development and testing of innovative security cooperation models.

The Centre is supported by an open ended group of public and private entities and critical infrastructures, particularly those servicing the non-nuclear energy sector.

## **Organisational Matters**

## National Critical Energy Infrastructure Protection in Europe

#### **Date of Event**

29th - 30th September 2011, Berlin, Germany

#### **Booking Number**

S-356

#### **Booking Modalities**

It is recommended to book soon as seats are limited. For organisational matters, we kindly ask you to complete the booking form in capital letters.

#### **Event Language**

The event language will be English.

#### **Event Price**

for Public Administration, Associations and NGOs

Early booking contingent until the 29th of July 2011:

989,- Euro, excl. German VAT (19%)

Normal price from the  $30^{\text{th}}$  of July 2011

1389,- Euro, excl. German VAT (19%)

#### for Private Organisations and Companies

Early booking contingent until the 29th of July 2011:

1389,- Euro, excl. German VAT (19%)

Normal price from the  $30^{\text{th}}$  of July 2011

1689,- Euro, excl. German VAT (19%)

The above price covers the following:

- Entrance on both event days
- Hand-out documents
- Soft drinks and coffee/tea
- · Lunch on both event days





#### BOOKING

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our website: www.euroacad.eu/energy

#### Your contact persons for the programme:

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(Programme is subject to alterations)

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#### **Event Location**

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10117 Berlin

Tel.: +49 (30) 20 33 44 10 E-Mail: Info.bpa@maritim.de

Please contact the hotel directly and refer to the "European Academy for Taxes, Economics & Law" in order to benefit from a limited room contingent at a special price. Please book as soon as possible. Of course you can always look for an alternative hotel accommodation.









#### NOTE

Please note, you can register as many delegates as you wish (except, the event is fully booked). You only need to copy this formular for as many persons you wish.



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## **Booking**

Booking Number: S-356(PR) Date: 29th - 30th September 2011, Berlin, Germany

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The course fee covers the fee per participant and course in € net, subject to current German VAT. It includes training course documents as per course description, a lunch meal/snack and refreshments during breaks, as well as, a participation certificate.

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- non-attendance or cancellation less than two (2) weeks prior to commencement of the course: 100% of course fee net, subject to current Germany VAT, payable immediately

The European Academy for Taxes, Economics & Law gladly accepts without additional costs a substitute participant nominated in case of a cancellation if the substitute participant is registered at least three (3) days prior to the commencement of the course. Neither cancellation of a specific module/part of the course or substitution per module/per day is possible.

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