

# Nuclear Power

## A Future Technology for Europe?

### Europe's positioning

- concerning nuclear power in general (facing the current challenges)
- towards national attitudes
- as regards security and risks
- in global competition

### Focus on

- analysing and validating the situation in Europe
- taking the global view at regional competition
- national trends in the member states
- public relations and communication

### Aspects of building Nuclear Power Plants

- security of energy supply
- harmonization of approvals
- financing
- grid capacity and grid extension

### Speakers of this high-ranking conference

Jacek Cichosz, PGE Energia Jadrowa  
Robert Davies, Areva UK  
Peter Faross, European Commission / Euratom Supply Agency (ESA)  
Denis Flory, International Atomic Energy Agency (IAEA)  
Wim Furthmann, Royal Bank of Scotland  
Dr. Ralf Güldner, Deutsches Atomforum / E.ON Kernkraft  
Michael Kruse, Arthur D. Little  
Ulf Kutscher, Nukem Technologies  
Hans E. Schweickardt, Alpiq Holding  
Reijo Sundell, Posiva Oy  
Stephen Tindale, Centre for European Reform  
N.N., ENTSO-E  
N.N., WNA CORDEL

**First  
Programme**

WEDNESDAY, 5 OCTOBER 2011

## Introduction: Welcome to Switzerland!

Switzerland's handling of Nuclear Energy

## The world has changed after Fukushima – Is Nuclear Power still a competitive form of generation within the generation mix in Europe?

Nuclear Power Generation situation and outlook in key markets

- Nuclear New Build status quo and prospects
- Fukushima – learning for nuclear new build?
- What it takes to manage nuclear new build

Nuclear Power in the European Union

- Europe's role and its positioning towards nuclear power
- The role of nuclear power for future energy and environmental trends
- Stress tests for nuclear power plants

Europe as a key player in nuclear technology – UK as its springboard

- The export of technological expertise within Europe
- The role of the UK within European new build

Russia as a key player in nuclear technology – its role within the European Market

## National Nuclear Energy Trends within Europe – The discussions have been sparked again within the different member states...

Energy Projects in UK – the future role of nuclear power in the UK

- The players in the British electricity market and future opportunities
- Modernising the power plant mix – the future role of nuclear power in the UK
- Already approved locations – furthermore backing of sides of the government?

## The French Nuclear Energy Sector

- What shape should the energy mix in France take in the future?
- Nuclear energy and renewable energy to ensure a sustainable development

Poland's plans – A Nuclear Power Plant for more sustainable energy mix

- Achieving more diversification and security of supply – is nuclear power the right approach?
- Climate protection and/or economically advantageous?
- Challenges and lessons learnt so far?

## Potentials & Challenges for the EU and its Nuclear Power Industry – Grids

Investments in "smart grids" and grid capacities – a must for the future of energy supply

- Face the future: electricity demand today and tomorrow
- The necessity of adapting the grid to the coming challenges – what are the policy/regulatory prerequisites
- How do the TSOs prepare the grid of the future?

The following speakers have already confirmed their participation:

- ▶ Jacek Cichosz,  
Director of Operations, PGE Energia Jadrowa, Warsaw
- ▶ Robert Davies,  
Vice President New Builds, Areva UK
- ▶ Peter Faross,  
Acting Deputy Director-General in charge of Nuclear Energy and Nuclear Safeguards, Directorate-General for Energy (DG ENER), European Commission, Luxembourg, and Director in charge of Nuclear Energy, Directorate-General for Energy (DG ENER), European Commission, Luxembourg, and Acting Director-General of the Euratom Supply Agency (ESA), European Commission, Luxembourg
- ▶ Michael Kruse,  
Principal, Global Nuclear Arthur D. Little, Düsseldorf
- ▶ Hans E. Schweickardt,  
President of the Executive Board, Alpiq Holding, Olten
- ▶ N.N.,  
ENTSO-E, Brussels



▶ Jacek Cichosz



▶ Robert Davies



▶ Peter Faross



▶ Denis Flory



At the end of the first conference day EUROFORUM invites you to a networking reception in Zurich.



THURSDAY, 6 OCTOBER 2011

### National Trends – Germany’s way to deal with Nuclear Power

When in Rome do as the Romans do – What will the German Nuclear Power Industry have to expect?

- Lifespan extension of nuclear reactors – nuclear power merely as a bridging technology?
- The role of renewable energy in Germany – how fast can it evolve?
- Nuclear power, renewable energy, coal, CCS – where will the base load come from in the future?

#### To be discussed!

#### We have to talk about risks: Aspects of security and human resources in the Nuclear Power Context

- Facing the catastrophe in Japan – consideration of risks
- International safety standards – how can they be monitored?
- Consideration of chances – key words “security of energy supply” and “climate protection”
- Comparability with other industries: the “oil spill”
- Permanent nuclear waste disposal – how can this be organised in a safe way in Europe?
- Do we have enough skilled staff to build and operate nuclear power plants?
- The power of the public – the way to deal with it

### Potentials & Challenges for the EU and its Nuclear Power Industry – Nuclear Waste

#### Final Disposal of Nuclear Waste – the practical example of Olkiluoto

- The handling of nuclear waste in Finland
- Responsibilities and selection of sites – safety first!?
- Opinion of the public and the municipality – is everybody convinced?

#### Management of Nuclear Waste in Europe – how safe is the Storage?

- Waste management and the practice in Europe
- Safety comes first – is this the real life?
- Experience of various international waste projects

### Financing of Nuclear Power Plants & Investments – It’s all about money...

#### Financial aspects of building new Nuclear Power Plants

- How do we deal with freely financed power plants in the long term?
- Investments in nuclear power plants – rate of return guaranteed?
- Obstacles and challenges for banks

### Harmonisation of approval processes – 15 Member States under one umbrella?

#### International Standardisation of Reactor Designs and Harmonisation of Regulatory Processes Industry leaders are calling for standardization of reactor design requirements!

- Industrial and regulatory standards, design reviews and approvals, licensing processes – can international harmonisation be achieved?
- Facilitation of cooperation and experience feedback at all stages of nuclear build – can it further increase economics and safety?
- WNA CORDEL Group was established in 2007 – Progress to date and Action plan



▶ Wim Furthmann



▶ Dr. Ralf Güldner



▶ Michael Kruse



▶ Ulf Kutscher

The following speakers have already confirmed their participation:

- ▶ **Denis Flory,**  
Deputy Director General, DDG – Department of Nuclear Safety and Security, International Atomic Energy Agency (IAEA), Vienna
- ▶ **Wim Furthmann,**  
Head Energy & Resources Germany and CEE, Royal Bank of Scotland, Frankfurt a. M.
- ▶ **Dr. Ralf Güldner,**  
President, Deutsches Atomforum e.V., Berlin, and Member of the Managing Board, E.ON Kernkraft GmbH, Hannover
- ▶ **Ulf Kutscher,**  
CEO & COO, Nukem Technologies GmbH, Alzenau
- ▶ **Reijo Sundell,**  
CEO and President, Posiva Oy, Olkiluoto, Eurajoki
- ▶ **Stephen Tindale,**  
Associate Fellow, Centre for European Reform, London
- ▶ **N.N.,**  
WNA Working Group on Cooperation in Reactor Design Evaluation and Licensing (CORDEL), London

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# Arthur D Little

**Arthur D. Little** is one of the worlds' leading management consulting companies. We help our clients in the Energy and Utilities sector and their supplier industry to master key challenges along the entire energy value chain: power generation, transmission and distribution, trading and sales as well as energy efficiency. Arthur D. Little has accompanied the worldwide renaissance of nuclear technology right from the beginning with global market studies and has been intensively involved in major nuclear new build projects.

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▶ Hans E. Schweickardt



▶ Reijo Sundell



▶ Stephen Tindale

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# Is Nuclear Power competitive as a Source of Energy?

It has appeared throughout the international press: Fukushima has left its mark after all the talk of a general renaissance of nuclear energy in Europe. Now it is the catchword “energy switchover” that is doing the rounds. The European States have to decide for themselves if or if not nuclear energy will remain a power generation option in the future.

In the overall European context the views on nuclear power differ widely: Germany and Switzerland will phase out nuclear energy in the foreseeable future. The UK and the Netherlands will expand nuclear power even further. Also Poland sticks to its plans to build new nuclear power plants and Finland still supports the construction of the largest reactor in Europe. The chances that France will give up nuclear power are as low as the chances that Austria will return to using nuclear power.

The way nuclear power will be used in Europe in the future will be decided at national level. However, there are open issues that need to be resolved:

- What are the lessons learned from the nuclear disaster in Japan – will everything remain the same?
- How safe are nuclear power plants in Europe – will they pass the stress test and then what?
- Why do countries decide to expand or phase out nuclear energy? What are the major reasons?
- What does Europe do with its nuclear waste – how safe are the deposit sites?
- Is the financing of nuclear power plants secured? Who provides the money for these investments?

Listen to high-ranking speakers presenting different perspectives on the future of nuclear power in Europe. They will not only focus on the question of expanding or phasing out nuclear energy, but will also address other important issues such as climate protection, security of supply and competitiveness.

**Don't miss the opportunity to join the debate!**

Yours sincerely



**Dr. Nicole Hagemann**  
(Division Leader Energy and Environment)

## Expected Audience

Executives representing the Nuclear Power Industry and Electricity Utilities, including CEOs, CTOs and decision-makers from

- Nuclear Power Plant Planning/Development
- Business development/Strategy
- Innovation
- Co-operation/Investment Management
- Project Management /Technical Management/ Operations
- Maintenance/Asset Management
- Safety and Nuclear Waste Management
- Finance
- Legal department
- Grids

Manufacturers of nuclear power plants, supply industry and other vendors wishing to sell their products and services to utilities:

- CEOs
- Business Development Managers
- Sales Managers
- Customer Service Managers

Other interested parties including:

- Financial institutions/banks
- Academics with an interest in nuclear power
- Energy service providers
- Consultants to the utilities industry
- Associations

## The reasons why you should attend this EUROFORUM-conference!

**Content:** The conference highlights the latest trends and developments. It provides topical information relevant for practical business strategies and decisions.

**Exchange of knowledge:** The opportunity to join the debate!

**Experience:** EUROFORUM (part of Informa plc) is an independent conference convener and one of the leading providers of conferences and seminars in Germany, Switzerland and Austria with more than 30,000 delegates in 2010. Trust in our conference experience!

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## Nuclear Power

A Future Technology for Europe?

**5 and 6 October 2011, Hotel Belvoir**  
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**CONDITIONS OF PARTICIPATION.** The attendance fee (plus VAT) per person, which includes conference documentation, lunches and tea/coffee, is payable on receipt of the invoice or by credit card. Once your registration has been received you will be sent a confirmation slip. Registrations can be cancelled (in writing only) free of charge up to 14 days before the event. When a cancellation is made within 14 days of the conference date, half the participation fee will be reimbursed. In the event of cancellation on the day of the conference, or failure to attend, the full fee will be payable. The registered delegate may of course send a substitute at no additional cost. The organisers reserve the right to amend the programme of events if necessary.

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