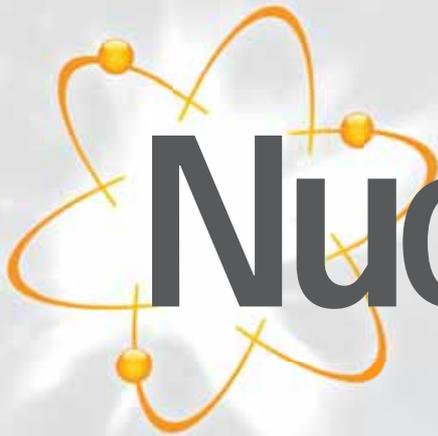


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NuclearPower

Capitalize on Investment Opportunities in the Growing Nuclear Energy Sector in Asia

2 – 5 AUGUST 2010, GRAND COPTHORNE WATERFRONT HOTEL, SINGAPORE



Keynote Address

Yukiya Amano, Director General, **International Atomic Energy Agency (IAEA)**

Key Themes

- **Latest Updates** on Nuclear Power in Emerging Markets
- **Project Viability** and Financing of Nuclear Power
- **Case Studies** from Leading Developers of Nuclear Power Programs
- **Best Practice** Waste Management Techniques and Safety
- **Project Planning** and Plant Siting
- **The Future** of Nuclear Power: Floating Power Plants and Underground Reactors

Conference Highlights

- **Keynote speech** by Dr. Yukiya Amano, Director General of the IAEA
- **Updates** from all Key Emerging Nuclear Markets in Asia and Policy Discussion Panel
- **Case Studies** from Power Producers, Industry Thought Leaders and Operators

Catch breaking updates from these governments:

Hoang Van Phong, *Minister of Science and Technology, Vietnam*
 Kamol Takabut, *Asst. Governor of Power Plant Engineering, Electricity Generating Authority of Thailand*
 Badaruddin Mayahuddin, *Senior Under Secretary (Energy), Ministry of Energy, Green Technology and Water, Malaysia*
 Achmad S. Sastratenaya, *Director of Center for Nuclear Power Development, National Atomic Energy Agency (Batan), Indonesia*
 Badong Salvadore Salire, *Division Chief, Policy Formation and Research, Department of Energy, Philippines*

Power producer case studies from:

Lu Wei, *Director of International Business, China Guangdong Nuclear Power Corporation*
 Hiroyuki Ito, *General Manager, Nuclear Power Plant and Siting Division, Tokyo Electric Power Company (TEPCO)*
 Phan Thi Thuy Tien, *Director of Science, Technology and Environment Dept., EVN*
 Ansar Parvez, *Chairman, Pakistan Atomic Energy Commission*

Case studies from operators, industry thought leaders and international nuclear associations:

Selena Ng, *Director – Asia Pacific Business Development, AREVA*
 Takashi Shoji, *Director, World Association of Nuclear Operators*
 Ian Hore-Lacy, *Director of Public Communications, World Nuclear Association*

PLUS! Exclusive in-depth workshops

Pre-Conference Workshop: 2 August 2010

Rosatom's Moscow Power Engineering Institute (MPEI)
Nuclear Reactor Technology Masterclass

Post-Conference Workshop: 5 August 2010

Nuclear Power Project Viability Masterclass

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8.15 Registration & Morning Coffee

9.00 Chairman's Welcome

Ian Hore-Lacy, *Director of Public Communications, World Nuclear Association*

Outlook on Nuclear Power Development

9.05 Global Development Overview of Nuclear Power Projects Worldwide

Keynote Address

- Regional growth of new government tenders and nuclear projects
- What bids are getting picked up and why
- Outlook for international uranium trade
- Where do Independent Power Producers fit into nuclear power?

Yukiya Amano, *Director General, International Atomic Energy Agency*

Latest Updates on Nuclear Power in Emerging Markets

9.45 Update on Investment Potential in Vietnam's Nuclear Program

Minister Address

- Current regulation in Vietnam for allocating 4000MW across two sites by 2020
- The impact of Vietnam's bilateral nuclear pact with Japan in terms of a solidified plan for nuclear power
- Considerations for different levels of project financing and investment
- Viability challenges in training of nuclear power experts and general workforce preparation

Hoang Van Phong, *Minister of Science and Technology, Vietnam*

10.30 Morning Networking & Refreshment Break

11.00 Examining Latest Developments in Thailand's Nuclear Power

- Development of nuclear power policy in Thailand for allocation of 5000MW by 2020
- Issues and challenges encountered with location sourcing
- Talent pool management: EGAT training engineers in China; nuclear engineering university courses
- Managing public perception

Kamol Takabut, *Asst. Governor of Power Plant Engineering, Electricity Generating Authority of Thailand*

11.45 Malaysia's Drive for Nuclear Power

- Government role in enabling nuclear option and the social issues that impact government decision-making
- Site acquisition as a priority before regulation
- Considerations for the best legal framework for Malaysia

Badaruddin Mayahuudin, *Senior Under Secretary (Energy), Ministry of Energy, Green Technology & Water, Malaysia*

12.30 Networking Luncheon

2.00 Current Status of Indonesia's Nuclear Development Program

- Diversifying the Indonesian fuel mix with nuclear energy
- A feasible way to overcome the electricity crisis and dwindling supplies of coal and oil
- Government provision of uninhabited sites in South Bangka Island, Lepar and Nanduk Island
- Potential of uranium reserves in Kalimantan for indigenous fuel supply
- Preparing Indonesia for high-level risk management in a volcanic region

Achmad S. Sastratenaya, *Director of Center for Nuclear Energy Development, National Atomic Energy Agency (BATAN), Indonesia*

2.45 Examining the Potential for Nuclear Power Development in the Philippines

- The DOE's open policy for considering nuclear power as a long-term energy option
- Details on the Philippine Energy Plan for 2009-2030
- Regulation: how and when will nuclear power generation be possible
- Studies undertaken by the Inter-Agency Core Group on Nuclear Energy in line with IAEA infrastructure requirements
- Rehabilitation of the BNPP two-unit plant at Bataan and prospects for how and who to fuel and operate it

Badong Salvadore Salire, *Division Chief, Policy Formation & Research, Department of Energy, Philippines*

3.30 Afternoon Networking & Refreshment Break

4.00 Panel: Nuclear Power Programs in Emerging Markets

- Updates on developing nuclear policies
- Developing future nuclear programs
- The importance of international investors

Moderator:

Dave Maslin, *Regional Director, Asia and Middle East, Worley Parsons*

Panelists:

- **Hoang Van Phong**, *Minister of Science and Technology, Vietnam*
- **Kamol Takabut**, *Governor of Power Plant Engineering, Electricity Generating Authority of Thailand*
- **Badaruddin Mayahuudin**, *Senior Under Secretary (Energy), Ministry of Energy, Green Technology & Water, Malaysia*
- **Achmad S. Sastratenaya**, *Director of Center for Nuclear Energy Development, National Atomic Energy Agency (BATAN), Indonesia*
- **Badong Salvadore Salire**, *Division Chief, Policy Formation & Research, Department of Energy, Philippines*
- **Sodnom Enkhbat**, *Director General, Mongolian Nuclear Energy Agency*

4.45 Understanding the Legal Structure of a Nuclear Power Project

Charles H. Peterson, *Partner, Pillsbury Winthrop Shaw Pittman LLP, United States of America*

5.00 Chairman's Summary & End of Conference Day One

9.00 **Chairman's Opening Remarks**
Ian Hore-Lacy, Director of Public Communications,
 World Nuclear Association

Successful Development of Nuclear Power

9.05 **Reducing Reliance on Outsourcing through Domestic Technological Advancement**

- Improving indigenous nuclear technology as a cost-cutting measure
- Reducing transportation and labour costs through internal supply and fabrication of nuclear fuel assembly
- Minimizing project spend through domestic project management and construction
- Uranium import issue – allowing for international elements to the fuel cycle

Lu Wei, Director of International Business, China Guangdong Nuclear Power Corp

9.45 **A Close Look at Best Practice Use of Leading Advanced Boiling Water Reactor (ABWR) Technology**

- Development of ABWR in Japan
- ABWR design features – higher levels of safety, reliability and economy
- Construction and operation experiences of ABWR at TEPCO
- Impact of the large earthquake on ABWR in 2007 – Preventing damage in safety related equipment

Hiroyuki Ito, General Manager, Nuclear Power Plant & Siting Division, Tokyo Electric Power Company (TEPCO)

10.30 Morning Networking & Refreshment Break

11.00 **Overcoming Challenges Encountered by Electricity of Vietnam (EVN) When Embarking on Vietnam's First Nuclear Power Plant**

- Long-term planning for nuclear power in Vietnam
- Opportunities for energy security in the region
- Challenges encountered
- Mobilization of capital

Thuy Tien, Director, Science Technology and Environment Department, Electricity of Vietnam (EVN)

Best Practice Insights into Safety and Waste Management

11.45 **Structuring and Financing Nuclear Power Projects**

- Experiences acting for acquirers and developers of nuclear facilities in Europe
- Insights for those developing new nuclear projects in Asia

Mark Newbery, Global Head of Power, Herbert Smith LLP, United Kingdom

12.15 **A Close Look at Safety Issues with Nuclear Reactors**

- Safer, more expensive reactor designs (Mk. III, IV) vs. cheaper models (Mk. II)
- Appropriate safety features for prevention and minimization of potential radioactive release
- National and worldwide safety regulation and standards
- Considerations for countries embarking on nuclear power projects
- Best practice safety assessment procedures
- Emergency preparedness and best practice plant management

Ansar Parvez, Chairman, Pakistan Atomic Energy Commission

1.00 Networking Luncheon

2.30 **Maximising the Safety and Reliability of Nuclear Power Plants**

- Worldwide WANO (World Association of Nuclear Operators) standards for safe commercial nuclear power plant operation
- Exchange of information amongst international WANO members to maintain safety and reliability
- How does a utility identify its weaknesses?
- How can a utility learn from operating experience?
- How can a utility prevent recurrent events?
- Nuclear safety culture

Takashi Shoji, Director, World Association of Nuclear Operators

3.15 **Best Practice Waste Management and a Close Look at the Nuclear Fuel Cycle**

- Role of the fuel cycle in a nuclear power program
- Different aspects of fuel procurement
- Different options for used fuel management
 - Where waste management has been lacking in the past
 - Different strategies and techniques for best practice waste management
 - Reprocessing fuel to remove fission products as a part of waste disposal

Selena Ng, Director – Asia Pacific Business Development, AREVA

4.00 Afternoon Networking & Refreshment break

Outlook for the Future of Nuclear Power

4.30 **The Viability of Underground Nuclear Reactors in Singapore**

- A feasible fulfillment of Singapore's energy diversification strategy
- Navigating land area constraints through excavation and outfitting of a subterranean power generation facility
- Effective natural risk/ nuclear accident prevention/ containment due to subterranean location
- Considerations for waste disposal strategies from an underground facility

Hooman Peimani, Head of Energy Security and Geopolitics, Principal Fellow, Energy Studies Institute, National University of Singapore

5.15 **The Future of Floating Nuclear Power Plants**

- Providing reliable power for remote regions with navigable access
- Capabilities for factory and shipyard construction rather than remote site works
- Possibility for relocation every few years
- Multipurpose power and desalination
- Use of proven reactor technology from icebreakers

Ian Hore-Lacy, Director of Public Communications, World Nuclear Association

6.00 **Open Discussion on Developments in Nuclear Plant Project Siting & Q&A**

Moderator:
Ian Hore-Lacy, Director of Public Communications, World Nuclear Association

6.30 Chairman's Summary of the day & End of Conference



NuclearPower Pre-Conference: Monday 2 August 2010 Post-Conference: Thursday 5 August 2010

Pre-Conference Workshop: Monday 2 August 2010, 9.00am-5.00pm

Nuclear Reactor Technology: Energy Challenges of the 21st Century Masterclass

With countries across Southeast Asia increasingly opening up to the nuclear power option, and established nuclear power programs developing successfully across Asia and the Middle East, an understanding of nuclear reactor technology's potential, safety features and reliability is essential. This masterclass presents an in-depth look at reactor technology from Rosatom/Atomenergoprom's research institute and university Moscow Power Engineering Institute:

- Vibroacoustic certification of nuclear power stations as a means of improving their reliability and safety
- Thermohydraulic factors causing the growth of dynamic stresses and cracks in the heads of pressurized-vessel reactors
- Prospects of increase in service life of fuel rods in advanced light water reactors
- Problems and solutions for personnel training on high technology



About your workshop leader

Professor Prosuryakov Konstantin Nikolayevich graduated from Moscow Power Engineering Institute and has worked in the MPEI Nuclear Power Plant Department since 1959. During 1986-1988 he served as an expert for the USSR Council of Ministers and for the Russian Federation State Duma (Parliament) during 2007-2008. As well as an award for "Contribution to

the Enlightenment" he has received several medals and other awards. His research interests lie in the specifications and safety of nuclear reactors, and R&D methods providing forecasting and prevention of vibration

Post-Conference Workshop: Thursday 5 August 2009, 9.00am-5.00pm

Nuclear Power Project Viability Masterclass

Emerging markets as well as successfully developed nuclear power programs constantly search for ways to best understand and improve the project's viability studies and success. This masterclass takes a close look at the fine details of planning and executing a nuclear power program:

- Considerations for the financing of a nuclear power project at different stages
- Viability study duration and impact on cost
- Construction cost
- Operating cost
- Waste disposal cost
- Decommissioning and other final costs
- Site location in terms of uranium supply, cooling facilities and grid proximity
- Embarking on a nuclear power project as an emerging market
- Improving upon past nuclear projects with careful viability studies and planning
- The viability of nuclear power in Singapore



About your workshop leader

Dr. Hooman Peimani is the Head of Energy Security & Geopolitics in the Energy Studies Institute based at the National University of Singapore. As well as academic entities he has worked at energy corporations such as Nord Stream, in the Canadian government as well as in national and international institutions. He has published ten books and over two hundred news

and journal articles, lending his extensive and diverse work experience to matters of energy security in Asia-Pacific and the Middle East.

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Nuclear Investment FOCUS

With the agreement of 77.48 percent of deputies, the National Assembly on November 25 2009 officially approved the resolution on the construction of the first two nuclear power plants in the southern province of Ninh Thuan."

VietNamNet.vn

Several countries including Turkey and India have shown interest in buying South Korean nuclear power plants after the country inked a \$40 billion deal in December with the United Arab Emirates."

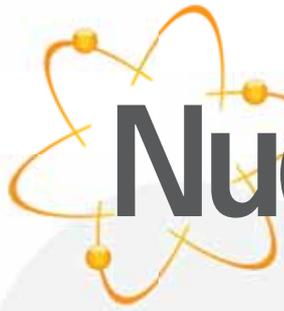
Moon Gwang-lip, JoongAng Daily, March 4, 2010

Indonesia's House of Representatives gave a green light to the government's plan to build nuclear plants."

UPI.com, March. 17, 2010

Diversification away from natural gas will be assisted by the move to nuclear power" (Thailand's Green Energy Plan indicates 10% of electricity will be from nuclear power plants by 2030)

Watcharapong Thongrung, The Nation, February 18, 2010
Ministry of Energy in Thailand (MOEN)



Nuclear Power

Capitalize on Investment Opportunities in the Growing Nuclear Energy Sector in Asia

As countries all over Southeast Asia are proposing, planning and developing nuclear power projects at different levels of progress. The nuclear renaissance will bring large numbers of new reactors online within the next two decades. The options open for suppliers of nuclear reactor technology, waste management solutions and EPC contractors are immense.

Nuclear Power represents a powerful launch to what is sure to become Asia's premier platform for the discussion and discovery of nuclear power investment options. Conference sessions will present a cohesive panel of governments speaking on the very latest developments in their home countries as well as best practice case studies from leading edge utilities involved in commercial nuclear power. Learn first-hand the infrastructure requirements of these countries according to the IAEA, the viability of these projects and the government regulation affecting them in 2010, as well as how to provide safe, secure, efficient power generation cost-effectively.

What People Are Saying About The Nuclear Power Congress

"I congratulate IBC Asia on the excellent panel of speakers."

Abdelmajid Mahjoub,
Director General,
Arabic Atomic Energy Agency

"The topics are very interesting, and this conference will cover the areas where there are more and more options for investment"

Phan Thi Thuy Tien, Director,
Science, Technology and Environment
Dept., Electricity of Vietnam (EVN)

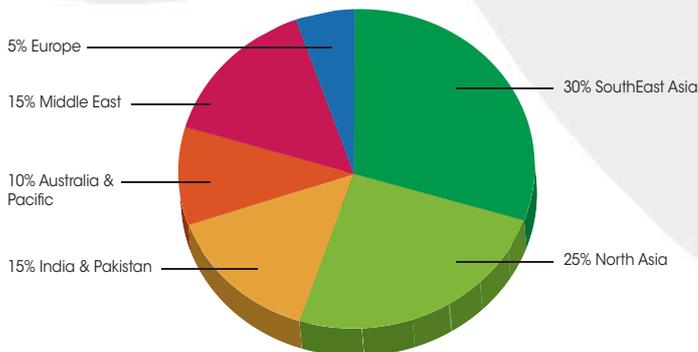
"This conference will be an important meeting for countries and companies developing nuclear power to discover investment opportunities."

Ms. Oyun,
International Communications Director,
Mongolian Nuclear Energy Agency

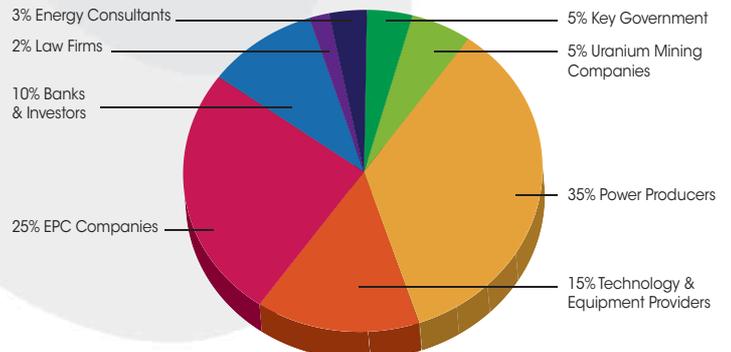
Who you will Meet

Governments and key power industry representatives from Southeast Asia, North Asia, the Middle East, India, Pakistan, the US, Canada and Australia. Power generation companies and nuclear reactor owners and operators in addition to senior-level government representatives, T&D, technology and equipment, construction companies, banks and investors, law firms and energy consultants will constitute the delegation.

Geographical Distribution of Delegates



By Industry



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<input type="checkbox"/> 2 Day Conference only	SGD 2,600	SGD 2,800	SGD 2,900	

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