

ESI-CIL Nuclear Governance Project Conference Series

# Evolving Global Nuclear Energy Landscape

## Emerging Challenges and Opportunities

### CONTEXT AND AIM OF CONFERENCE

The outlook for the international nuclear energy industry is uncertain and subject to change in several respects:

- The outlook for the construction of new nuclear energy capacity is uncertain due to long-term safety, security and safeguards concerns and the competition from other forms of energy.
- Yet, a relatively large number of countries have either adopted or are working toward adopting a national position allowing for the building of first nuclear power plants.
- Some key existing nuclear technology vendors are facing strong economic and other challenges that threaten their future.
- At the same time, Russian enterprises are building a strong position in the market; Chinese, and to a lesser extent, South Korean enterprises are also positioning themselves to be major international vendors.

This changing landscape has the potential to pose challenges for existing international and national legal, regulatory and institutional frameworks, particularly, for nuclear safety and security.

The aim of this conference is to examine these changes and assess the challenges and opportunities they present to vendors, newcomer countries and the international nuclear community.

#### Date

Wednesday,  
11 April 2018

#### Time

14:00-17:30

#### Venue

Pan Pacific Hotel  
7 Raffles Boulevard  
Marina Square  
Singapore 039595

#### Enquiries

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**Participation by invitation  
only**

### PROGRAMME

13:30 - 14:00: Registration

#### Session 1

14:00 - 14:10: **Opening Remarks**

*Dr Philip Andrews-Speed*, Energy Studies Institute, National University of Singapore

14:10 - 14:35: **The Evolving Global Nuclear Energy Landscape**

*Mr Paul Murphy*, Managing Director, Gowling WLG

14:35 - 15:00: **Observations on the Existing Global Legal Regime for Nuclear Energy**

*Mr Anthony Wetherall*, Senior Research Fellow, Centre for International Law, National University of Singapore

15:00 - 15:30: **Q&A**

#### Session 2

Session Chair: *Mr Anthony Wetherall*, Centre for International Law, National University of Singapore

16:00 – 16:25: **IAEA Approach & Assistance to Newcomers**

*Dr Massoud Samiej*, Senior Consultant, Department of Nuclear Energy, Nuclear Infrastructure Development Section, International Atomic Energy Agency

16:25-16:50: **Vendor Oversight & Quality Control: construction and supply chain management**

*Mr Alexandre Aubry*, Nuclear Quality Standard Association

16:50 – 17:30: **Q&A and Panel Discussion**

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### SPEAKERS

**Paul M. Murphy** is Managing Director for Gowling WLG. He has over twenty years of experience as a transactional attorney. Paul's practice focuses on multiple aspects of the nuclear industry. On legal and policy matters, this includes international regulatory and treaty frameworks and issues regarding nuclear liability. He also advises on strategies to create and finance nuclear power programmes and the identification and mitigation of associated risks. He has represented developers/owners, investors, lenders, and contractors on nuclear projects internationally.

He is recognised as an expert in the development and financing of nuclear power programmes by the International Atomic Energy Agency (IAEA), the OECD's Nuclear Energy Agency (NEA), the International Framework for Nuclear Energy Cooperation (IFNEC), and the US government. Paul is a graduate of Princeton University's Woodrow Wilson School for Public and International Affairs and Harvard Law School.

**Dr Massoud Samiei** is a Senior Consultant at the IAEA Department of Nuclear Energy, Nuclear Infrastructure Development Section. He provides policy and strategic advice on the planning and management of programmes in countries embarking on new nuclear power, and reviews challenges faced by the IAEA to deliver its integrated nuclear infrastructure related services more efficiently and effectively. He has over 30 years of experience in nuclear energy applications.

Dr Samiei did his MSc, PhD and post-doctoral work at Imperial College, London, in nuclear engineering, followed by a decade of work in the nuclear industry during 1980s. He joined the IAEA Technical Cooperation Department in 1990 and until 2005 he was the Head of Europe Region, responsible for the formulation of assistance programmes for nuclear safety, nuclear power, research reactors, nuclear security, waste management, environmental remediation, and radiation medicine. During 2005-2012, he was the Director for the IAEA Programme of Action for Cancer Therapy (PACT).

**Alexandre Aubry** is North Asia Nuclear Manager in Bureau Veritas, a world leader in testing, inspection and certification services with over 40 years of experience in the nuclear field.

Since he joined Bureau Veritas in 2009, he worked as Project Manager for the conformity assessment and quality management of nuclear equipment, in particular, the procurement of safety-classified equipment as well as the on-site installation of nuclear steam supply systems. This involved engagements with Bureau Veritas teams in Europe and Asia, as well as safety authorities, nuclear utilities and manufacturers, on various projects and in different countries.

The Nuclear Quality Standard Association is a non-profit association, jointly launched by Orano (formerly Areva) and Bureau Veritas in January 2011, with membership from several key actors in the nuclear field. It aims at improving, through an international ISO standard, the understanding and harmonisation of quality requirements by the supply chain.

**Anthony Wetherall** is a Senior Research Fellow at the Centre for International Law, National University of Singapore. Anthony has some fifteen years of nuclear legal and regulatory experience. He has advised countries (including newcomers) and the nuclear industry on various legal, regulatory and commercial issues in areas including nuclear safety, radioactive waste management, decommissioning, EPR, nuclear security, safeguards and nuclear liability. Anthony worked for twelve years in the IAEA Office of Legal Affairs.