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SIEW
SINGAPORE INTERNATIONAL ENERGY WEEK

Atoms for Asia: Unlocking a Secure & Low-Carbon Future

Interest in advanced nuclear technologies is growing. But moving from interest to potential deployment requires more than technology. The [inaugural IAEA@SIEW Forum](#) brings together international perspectives to explore what nuclear readiness looks like in practice, and the considerations for countries looking at the potential role of nuclear in their future energy systems.

The Global Nuclear Landscape: Trends, Opportunities and the Road Ahead

An overview of global nuclear developments and emerging technologies, in the region.



Wei Huang

Director, Division of Planning, Information and Knowledge Management, Department of Nuclear Energy
International Atomic Energy Agency

Session 1: Creating an Enabling Environment: Policies, Financing and Partnerships for Nuclear Deployment



Ted Garrish
Assistant
Secretary
**Department of
Energy, United
States**



**Stéphanie Guénot
Bresson**
Commissioner
**Nuclear Safety
and Radiation
Protection
Authority**



Eugene Toh
Assistant Chief
Executive, Energy
Technologies
Division
**Energy Market
Authority**



**Dato' Ir. Ts., Razib
Dawood**
Executive Director
**ASEAN Centre for
Energy**



Dr Han-Gon Kim
President
**Innovative SMR
Development
Agency**



**Ganesh
Padmanabhan**
Managing
Director and Head
of Project Finance
DBS Bank



Wei Huang
Director, Division
of Planning,
Information and
Knowledge
Management,
Department of
Nuclear Energy
**International
Atomic Energy
Agency**
(Moderator)

As nuclear energy experiences a global resurgence, the conditions for successful deployment extend well beyond technology. This session examines how governments, financial institutions, and industry can work together to develop policy frameworks, financing mechanisms, and international partnerships needed to bring nuclear programmes to fruition.

- Policy and regulatory conditions that underpin long-term investor and developer confidence



- Financing structures and risk-sharing mechanisms that unlock capital for nuclear projects
- Bilateral, multilateral and technology transfer frameworks that support nuclear newcomers

Session 2: Building the Future: Innovation, Infrastructure and Readiness for Advanced Nuclear Technologies



Gary Rose
Executive Vice
President,
Nuclear, Canada
AtkinsRéalis



Antoine Guelfi
Head of Business
Development
International
Nuclear
Development
EDF



Lei Huang
Deputy General
Manager
**Hainan Nuclear
Power Co., Ltd**



Annat Jain
CEO
Holtec Asia



Tom Greatrex
Chief Executive
**Nuclear Industry
Association, UK**



Benjamin Reinke
Deputy Chief
Commercial
Officer
X-energy

As advanced nuclear technologies move closer to commercial deployment, ambition must be matched by readiness. This session examines the practical foundations required, from infrastructure and supply chains to workforce capabilities and institutional capacity. The panel will explore how countries



can position themselves to successfully deploy advanced nuclear technologies.

- Global technology trends and deployment pathways across SMRs and advanced reactors, and the potential role of nuclear energy in ASEAN's evolving power systems and industrial hubs
- Infrastructure, supply chain, and industrial base requirements for nuclear construction and operations
- Applying the IAEA Milestones Approach and INIR process to build regulatory, technical, and emergency preparedness capabilities for newcomer countries
- Workforce development, institutional capacity-building, and lessons from international experience on safety, governance, and long-term public trust

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- ✓ Access to the **Energy Showcase**, featuring technologies and solutions shaping the next generation of energy systems

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