International Framework for Nuclear Energy Cooperation (IFNEC)

A Nuclear Energy Partnership

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18th INPRO Dialogue Forum on Partnerships for Nuclear Development and Deployment

May 18-21, 2021
International Framework for Nuclear Energy Cooperation - History

- The mission of IFNEC is to provide a forum for cooperation among participating states to explore mutually beneficial approaches to ensure the use of nuclear energy for peaceful purposes proceeds in a manner that is efficient and meets the highest standards of safety, security and non-proliferation. Participating states would not give up any rights and voluntarily engage to share the effort and gain the benefits of economical, peaceful nuclear energy.

- In 2010, IFNEC was established in Ghana out of the partner counties of the Global Nuclear Energy Partnership.
### IFNEC Members

#### 34 Participant countries
- Argentina
- Armenia
- Australia
- Bahrain
- Bulgaria
- Canada
- China
- Estonia
- France
- Germany
- Ghana
- Hungary
- Italy
- Japan
- Jordan
- Kazakhstan
- Kenya
- Korea
- Kuwait
- Lithuania
- Morocco
- Netherlands
- Niger
- Oman
- Poland
- Romania
- Russia
- Senegal
- Sierra Leone
- Slovenia
- Ukraine
- United Arab Emirates
- United Kingdom
- United States

#### 31 Observer countries
- Algeria
- Bangladesh
- Belgium
- Brazil
- Chile
- Czech Republic
- Egypt
- Finland
- Georgia
- Greece
- Indonesia
- Latvia
- Lithuania
- Malaysia
- Mexico
- Moldova
- Mongolia
- Netherlands
- Nigeria
- Philippines
- Qatar
- Saudi Arabia
- Singapore
- Slovak Republic
- South Africa
- Spain
- Sweden
- Switzerland
- Tanzania
- Tunisia
- Turkey
- Uganda
- Viet Nam

#### 4 International Organizations
- NEA (Nuclear Energy Agency)
- GENIV International Forum
- IAEA (International Atomic Energy Agency)
IFNEC Structure
IFNEC Structure and Objectives

**EXECUTIVE COMMITTEE (EC)**
- Convenes annually to promote multi-lateral discussions on key nuclear development issues among ministerial level officials.

**STEERING GROUP**
- the highest permanent level, policy-making body
- It implements actions on behalf of the EC, conveys guidance and supports the IFNEC Working Groups

**Technical Secretariat**
- Provides global nuclear statistics, technical analyses and manage IFNEC activities.

**Infrastructure Development Working Group (IDWG)**
- Supports the development of the infrastructure needed to ensure nuclear development for peaceful purposes

**Reliable Nuclear Fuel Services WG (RNFSWG)**
- Supports the co-operation on enhancing reliable, commercially based front and back end fuel services in member countries.

**Nuclear Supplier and Customer Countries Engagement Group (NSCCEG)**
- Provides a platform for open discussions between supplier and customer countries on key issues such as nuclear safety, financing and public confidence.
IFNEC Results
IFNEC webinars on SMR deployment

- June 2020: organized a series of webinars to improve understanding of the challenges faced by supplier and customer countries in deploying SMRs for clean energy.
  - Webinar #1 – National Market Perspectives Regarding SMR Market Development – Emerging Countries Have a Conversation on Deployment
  - Webinar #2 – SMR Financing – Private and Public Options
  - Webinar #3 – SMR Licensing: Sharing Experiences on Regulatory Collaboration
  - Webinar #4 – SMR Vendor Forum – An Open Discussion with Global Vendors to Review Designs and Benefits
  - Webinar #5 – Energy Synergy (nuclear and renewable) and Hybrid System

- Recorded webinars, presentations, Q&As available
Infrastructure Development Working Group (IDWG) Activities in 2020 -2021

- The IDWG carries out its work through the organization of regular Working Group meetings, specific workshops and conferences focused on sharing of “best practices” in the areas within its scope. Due to COVID that scope of work was disturbed this year, and the most important workshops were postponed.

- Particular areas of emphasis in 2021 include development of small modular reactors technology, nuclear safety and regulations, financing and funding Nuclear New Build projects.
  - Topics are derived based on input from member countries.

- The IDWG will continue and extend its collaboration with the IAEA, NEA and other nuclear international organizations.
# 2021 Webinars on Nuclear Financing

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<th>Webinar</th>
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| 1. The financing of SMR – challenges and opportunities [May 18, 2021] | - SMR benefits, and the potential paths forward for establishing SMR financing  
- Potential impact of various business model and ownership of SMR on financial engineering |
| 2. The role of export credit agencies and multilateral development banks for nuclear new build financing [June 23, 2021] | - Evolving role of ECAs and MDB for financing nuclear projects  
- Key challenges and opportunities faced by financial organizations  
- Ways to secure different financial sources |
| 3. Taxonomies, ESGs and the role of Nuclear Energy [Jul 13, 2021]       | - Review ongoing initiatives to develop a level playing field for sustainable finance and how nuclear power may be impacted |
| 4. Contractual structures and incentives in nuclear new build [Sept 14, 2021] | - Present and discuss the performance of different contractual structures in recently concluded or ongoing nuclear new build projects |
| 5. Outlook for nuclear new build in Central and Eastern Europe & the role of financing [Oct 19, 2021] | - Prepare for a high-level policy conference in Poland with a focus on ongoing initiatives regarding nuclear new build in Central and Eastern Europe. |
Activities on SMR Licensing and Demonstrations

- This workshop will focus on innovative changes in advanced nuclear technologies, including small modular reactors (SMRs), and will address demonstrations of advanced technologies and licensing approaches.

- The workshop, to be held at Idaho National Laboratory in Idaho Falls, Idaho, USA, is now postponed to 2022 amid COVID-19 rebound.

- The IDWG is organizing a webinar in 2021 to prepare for the 2022 in-person workshop.
2020 Exec Committee, Steering Group and Working Groups – Nov 11-12, 2020 virtual meetings

- More details of IFNEC 2020 activities and outcomes, please see our Joint Statement on https://www.ifnec.org/ifnec/jcms/j_6/home

2021 Virtual Meetings (to be confirmed)

- Steering Group meeting: June 22, 2021
- Working Group meetings: June/July 2021
- Executive Group meeting: Nov 2021

2022 Meetings – Kenya (to be confirmed)

- Global Ministerial Conference - Deploying Advanced Nuclear for a Green Energy Future

- Observers are welcome!

For more information about IFNEC, visit www.ifnec.org or contact the NEA secretariat@ifnec.org