

## **Nuclear Small Modular Reactors (SMRs): Key Considerations for Deployment**

**Johns Hopkins School of Advanced International Studies (SAIS)**

**Presentation of Findings**

**Hosted by IEF**

**9:30 EDT, 15:30 CEST, 16:30 AST/EEST, Thursday, April 18, 2024**

### Background:

A diversity of IEF member countries is exploring and reframing the role of nuclear power in energy security and decarbonization. Nuclear energy is considered by many as a viable, and even necessary component in a portfolio of options to reduce CO<sub>2</sub> emissions in the power sector. An emerging part of this discussion is the role and potential of nuclear Small Modular Reactors (SMRs) in achieving climate goals and fostering economic development as part of the energy transition.

Much excitement has been generated regarding SMR deployment globally. However, they also pose new considerations when compared to larger, more conventional reactors. Understanding the challenges and opportunities facing SMR deployment can better inform policy makers and stakeholders to reach their decarbonization targets.

SAIS' Graduate Student Consulting Team has assessed a range of factors, including financial, economic, regulatory, institutional, and technical, based on expert interviews, literature review, issue analysis, and leveraged IEF's knowledge networks to develop a decision-making framework for policy makers.

IEF is pleased to extend this personal invitation for you to attend this virtual presentation of the guidebook for SMR deployment and key project findings by the graduate student-led consulting team that will be followed by a Q&A discussion.

The goal is to provide IEF government policy makers and market stakeholders in these countries with an analytical framework that can support decision making regarding SMRs.

### Dialogue Focus:

1. Current State of SMR Deployment Globally
2. Decision-Making Framework for SMR Deployment
3. Opportunities and Challenges facing SMRs

\* Chatham House Rule, By Invitation Only

**AST**

**Virtual Meeting Agenda\***

16:30 to 16:35

**Welcome and Scene Setting Remarks**

- **Christof van Agt Ross**, Director of Dialogue, IEF

16:35 to 16:45

**Perspectives from Romania on SMR Deployment**

- **Andrei Radulescu**, Head of SMR Department, Nuclearelectrica
- **Andrei Apostol**, Director of Nuclear Fuel Cycle and Non-Proliferation, RoPower Nuclear

16:45 to 17:10

**Presentation Prel. Key Findings John Hopkins School of Advanced International Studies  
Key Considerations for SMR Deployment Report**

- **Boyuan Gao, Kate Kuznetsova, Kate Miller, Zhiqiu Ma**, Student Project Team, Report Authors, SAIS

17:10 to 17:40

**Q&A and Discussion**

- **Paweł Luzak**, Embassy of the Republic of Poland in Washington, D.C
- **Lee Beck**, Senior Director, Europe and Middle East, CATF
- **Nathalie Horbach**, Founding Partner, Lexatom
- **Malwina Qvist**, Nuclear Programme Lead, CATF
- **Desislava Spassova**, Founding Partner, Lexatom

17:40 to 17:45

**Next Steps and Conclusions**