



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

**21st INPRO Dialogue Forum on
the Deployment of
Small Modular Reactor Projects and Technologies
to Support the Sustainable Development Goals
(SMRs for SDGs)**

**Hosted by the
Government of the Russian Federation**

**through the
Rosatom Technical Academy**

Saint Petersburg, Russian Federation

28 August – 1 September 2023

Ref. No.: EVT1904532

Information Sheet

Introduction

The International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) was launched in 2000, in accordance with resolution GC(44)/RES/21, adopted in that year by the General Conference of the International Atomic Energy Agency (IAEA). The project's objectives are to help ensure that nuclear energy remains available in the 21st century and is developed in a sustainable manner. Moreover, INPRO seeks to bring together all interested Member States, including technology holders and users, so that they can jointly consider the actions necessary to achieve desired innovations in nuclear energy. The current

membership of INPRO comprises 43 IAEA Member States, the European Commission and the African Commission on Nuclear Energy (AFCONE).

The INPRO Dialogue Forum offers a platform for technology holders, technology users and other stakeholders to share information, perspectives and knowledge on issues related to sustainable nuclear energy development. The Dialogue Forums focus not only on technology, but also institutional aspects, such as market, resources, effects of regulation, public acceptance, and other contributions to sustainable development.

The IAEA, in line with its ‘Atoms for Peace and Development’ mandate, supports countries in their efforts to reach the 17 Sustainable Development Goals (SDGs) set out in the United Nations (UN) 2030 Agenda for Sustainable Development.

Nuclear power plants are a major source of electricity and have made certain contribution to SDGs by improving energy security and mitigating climate change. Today, small modular reactors (SMRs) are among the most promising emerging nuclear energy technologies and there are accelerated efforts in the development and future deployment of SMRs. In comparison to the existing reactors, SMRs are designed to be more affordable through shortened construction time by simplification and modularization of components. Design objectives of SMR include potentially lower upfront capital cost, greater flexibility for smaller grid, applicability for integration with renewables and non-electric applications such as hydrogen production and water desalination, and enhanced safety performance through inherent and/or passive safety features. Innovative designs will also generate less waste or even run on recycled spent fuel. Due to these advances, SMRs are expected to provide enhanced and greater contribution to SDGs than existing nuclear power plants.

During the INPRO Steering Committee (SC) Meeting, members noted the increasing interests in the development and deployment of SMRs as a cleaner alternative to fossil fuels and reducing greenhouse gas emissions. The INPRO SC endorsed the topic on SMRs as one of the topics for the INPRO Dialogue Forums.

Based on earlier recommendations of INPRO Member States (MS) raised at the 17th INPRO Dialogue Forum on Opportunities and Challenges in Small Modular Reactors, held on 2–5 July 2019 in Ulsan, Republic of Korea; the IAEA General Conference (GC) resolution and recommendations of the Standing Advisory Group for Nuclear Energy (SAGNE); the INPRO 30th SC Meeting endorsing the organization of the INPRO Dialogue Forum in Russian Federation focused on discussion of the “Deployment of Small Modular Reactor Projects and Technologies to Support the Sustainable Development Goals” (SMRs for SDGs).

The event will mainly consist of two parts: (i) the Dialogue Forum itself and (ii) technical tours to include local nuclear industries and nuclear power plants. The Dialogue Forum includes keynote speeches by the invited speakers, presentations by the participants from Member States, and discussions among participants representing interested Member States and international organizations.

Objectives

The objectives of the 21st INPRO Dialogue Forum are to:

- Discuss the role of SMRs in achieving SDGs with a broad set of participant perspectives including technology developers, potential suppliers and users;
- Identify the functions and features of SMRs that can contribute to achieving SDGs;

- Explore the status of development and deployment of SMRs including associated fuel cycles;
- Discuss the roles that various SMR related industries and institutions can play to contribute to achieving SDGs; and
- Promote an open dialogue on national, regional, and global opportunities and challenges in achieving SDGs through development and deployment of SMRs.

Target Audience

The INPRO Dialogue Forum is primarily open to participants from the INPRO Member States. It is also open to other interested IAEA Member States and international organizations.

Working Language(s)

The working language of the event will be English with no interpretation provided. All communications, abstracts and papers must be submitted to the IAEA in English.

Topics

The event will consist of several sessions, and all contributions, presentations, and discussions in the following categories.

- Keynote sessions on Sustainable Development Goals (SDGs) set out in the United Nations (UN) 2030 Agenda for Sustainable Development and the role of Nuclear Energy
- Current status of development and deployment of SMRs including fuel cycle options
- Role of SMRs with various functions and features in achieving SDGs
- Role of SMR related industries and institutions in contributing to SDGs
- National, regional, and global opportunities and challenges for the successful development and deployment of SMRs and their contributions to achieving SDGs.

Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority, (e.g., Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for further transmission to the IAEA **by 30 June 2023**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by the above deadline.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative matters.

Completed and authorized Participation Forms should be sent either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Additionally, copies should be sent by email to the Scientific Secretaries of the event:

Mr Sung Soo Kim, (Email: S.S.Kim@iaea.org),
Mr Maxim Gladyshev, (Email: M.Gladyshev@iaea.org), and
Mr Hadid Subki, (Email: M.Subki@iaea.org)

And to the Administrative Secretary

Ms Karron Marie Robinson-Onorati, (Email: K.Robinson-Onorati@iaea.org).

Papers and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed above.

Participants who wish to give presentations are requested to submit an abstract of their work together with the **Participation Form (Form A)** and the attached **Form for Submission of a Presentation (Form B)** to their competent national authority (e.g., Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or their organization for onward transmission to the IAEA not later than **30 June 2023**.

The abstract will be reviewed as part of the selection process for presentations. The abstract should be provided in A4 page format, should extend to no more than 2 pages (including figures and tables) and should not exceed 700 words. It should be sent electronically to Mr Sung Soo Kim and Mr Maxim Gladyshev, the Scientific Secretaries of the event (see contact details below), not later than **31 July 2023**. Authors will be notified of the acceptance of their proposed presentations by **10 August 2023**.

The event is, in principle, open to all officially designated persons. The IAEA, however, reserves the right to limit participation should this become necessary due to limitations imposed by the available seating capacity. It is therefore recommended that interested persons take the necessary steps to obtain their official designation as early as possible.

Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made using the **Grant Application Form (Form C)**, which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **30 June 2023**.

Venue

The Dialogue Forum will commence at 9.30 a.m. on Monday, 28 August 2023, Saint Petersburg Branch, Rosatom Technical Academy, St. Petersburg, Russian Federation (4 Letter A, Aerodromnaya Str., Saint-Petersburg).

Visas

Participants who need a visa for entering Russian Federation should submit the necessary application to the nearest diplomatic or consular representative of Russian Federation as early as possible, along with the invitation letter from the Agency.

Additional Information

This Dialogue Forum will be organized by the IAEA in collaboration with the Government of Russian Federation through the Rosatom Technical Academy.

Participants are advised to review local circumstances regarding the use of cash and credit cards prior to embarking on their travels.

IAEA Contacts

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary and correspondence on other matters related to the event to the Administrative Secretaries.

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:

www.iaea.org/events/EVT1904532

Enclosure: Form for Submission of a Paper (Form B).