



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

Hybrid Event:

**Technical meeting of the collaborative project
“Analysis Support for Enhanced Nuclear Energy
Sustainability Pilot Study on Potential of Innovative
Nuclear Installations to Support Multi-recycling of
Fuel in a Nuclear Energy System
(STEP FORWARD)”**

IAEA Headquarters, Vienna, Austria
and virtual participation via Cisco Webex

5-8 November 2024

Ref. No.: EVT2304028

Information Sheet

Introduction

The International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) launched the “Analysis Support for Enhanced Nuclear Energy Sustainability (ASENES) Pilot Study on Potential of Innovative Nuclear Installations to Support Multi-recycling of Fuel in a Nuclear Energy System” (STEP FORWARD) project based on recommendations by INPRO Member States during the 30th INPRO Steering Committee Meeting (October 2021).

The STEP FORWARD project applies the ASENES service package and national tools of relevance to the evaluation of nuclear energy system (NES) scenarios. These NESs involve deployment of initially small number of innovative nuclear installations to support multi-recycling of spent fuel along with operating and evolutionary reactors with thermal neutron spectrum. An important objective is to analyse, compare, and present various NESs and scenarios of their evolutions that achieve a meaningful reduction of spent nuclear fuel inventories and enhance fissile material resources through multi-recycling of fuel. The project examines technological parameters in the nuclear fuel cycle, such as lead and lag times, timely availability

of fuel cycle services, and absence of peaking capacities in required fuel cycle enterprises. Additional investigations are in nuclear infrastructure, particularly scenarios involving nuclear trade between technology holders that provide back-end fuel cycle services, and technology users of such services.

The project had a virtual preparatory consultants' meeting in February 2022, a start-up technical meeting in December 2022, consultants' meetings in September 2023 and April 2024, and a technical meeting December 2023. This is the sixth STEP FORWARD project meeting.

Objectives

The purpose of the meeting is to review the case studies by the project participants in applying the ASENES service package and national or other tools relevant to the evaluation of NES and scenarios involving small numbers of innovative nuclear energy installations to enable the multi-recycling of fuel in a complete NES.

Target Audience

This technical meeting will pursue broad participation from INPRO members within the following groups.

- Experts participating in the STEP FORWARD Collaborative Project and familiar with INPRO ASENES service package and tools, including observers and members of the project Editorial Committee;
- Technical experts and managers working in national research laboratories and ministries, responsible for development and implementation of national programmes of innovative technology development for nuclear energy, strategic energy planning, and international cooperation (nuclear trade).
- Participants from newcomer countries, especially countries planning to become an important part of the regional and global NES.

Working Language(s)

The working language of the meeting is English. Participants must submit all communications papers and presentations in English.

Expected Outputs

The expected outputs of the technical meeting.

- Reviewed and updated case studies for STEP FORWARD
- Drafts of case studies from project participants for the project report.

- Discussion and documentation of conclusions and preliminary findings of the case studies.
- Updated scope and schedule of work covering the time until the next meeting in 2025.
- Meeting report.

Structure

The meeting will include presentations from IAEA Secretariat and project participants and observers. Project participants will present case studies, including findings and results. Project observers should make presentations on their general observations. After presentation of case studies and general observations, attendees will discuss the preliminary findings and results to identify common findings and conclusions for inclusion in the final report. Separate working sessions will be convened for the Editorial Committee to review final reports of case studies and discuss preliminary findings of the case studies.

Participants and observers will work on the draft meeting report. Additionally, participants and observers will contribute draft case studies and preliminary findings and conclusions for the final report.

Working sessions will be in person, with support for virtual participation via Cisco Webex. All participants of the meeting are encouraged to make presentations, contribute to brainstorming, drafting of the meeting report, and definition of the content for the final project report. Additionally, there will be email communications between the Secretariat and all project participants and observers.

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 invited to attend.

In order to be designated by an IAEA Member State or invited organization, participants are requested to submit their application via the InTouch+ platform (<https://intouchplus.iaea.org>) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **20 September 2024**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):
 - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
 - Persons without an existing NUCLEUS account can register [here](#).
2. Once signed in, prospective participants can use the InTouch+ platform to:
 - Complete or update their personal details under ‘Complete Profile’ and upload the relevant supporting documents;
 - Search for the relevant event under the ‘My Eligible Events’ tab;
 - Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating Authority’ (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
 - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);

- Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
- Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **20 September 2024**.

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org

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

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

Papers and Presentations (Draft Case Studies)

Project participants of the meeting are requested to deliver presentations highlighting the progress on the STEP FORWARD case studies, including preliminary conclusions and findings. Participants should submit draft reports of their case studies for inclusion in the final report. Project observers should make presentations on their general observations of the project.

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, together with the submission of the application, by **20 September 2024**.

Venue

The event will be held at the Vienna International Centre (VIC), Building C, Room C0440/C0437, where the IAEA's Headquarters are located. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page:

www.iaea.org/events.

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

The meeting will also be conducted in online mode (Cisco Webex) for virtual participants.

Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

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