



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

Workshop on Modelling the Contribution of Nuclear Power to Secure and Reliable Energy Systems

IAEA Headquarters, Vienna, Austria

M B R A

6–10 July 2026

Ref. No.: EVT2503852

Information Sheet

Introduction

The International Atomic Energy Agency (IAEA) is organizing a Workshop on Modelling the Contribution of Nuclear Power to Secure and Reliable Energy Systems at its Headquarters in Vienna, Austria, on 6 – 10 July 2026.

Energy scenario modelling supports policymakers in evaluating different pathways for developing energy systems that ensure affordability, security of supply, and long-term system reliability. These scenarios explore multiple options for energy production and consumption, helping countries assess how to maintain stable and resilient energy systems under evolving demand and operating conditions.

As energy systems undergo significant transformation, nuclear power remains a proven and dependable source of electricity. Future energy needs will require increased electrification, to which all available technologies will need to contribute, including nuclear energy. Sectors that are difficult to electrify—such as heavy transport, maritime shipping, and energy-intensive industries like steel production—will require diversified energy carriers and dependable sources of heat and fuels.

One key priority of energy transitions is diversifying energy sources and supply chains. This helps reduce dependency on potentially unstable import markets, enhances energy security, and builds resilience against market volatility and risks. By developing robust energy systems, countries can better ensure stable energy access and economic stability.

Hydrogen is emerging as a flexible energy carrier that can be produced from various technologies, including nuclear power. Nuclear heat can also support district heating and industrial applications, while contributing operational flexibility and storage functions within modern power systems. Advanced reactors and Small Modular Reactors (SMRs) further expand nuclear energy’s potential

roles, offering capabilities not only for electricity generation but also for heating, desalination, and hydrogen production. Integrating these applications into energy scenarios enables policymakers to better understand how nuclear technologies can strengthen security of supply through diversification, reliability, and system-wide resilience.

Objectives

The main objective of this event is to exchange information on energy scenario studies conducted by Member States and to understand how these studies support or are intended to support national policymaking. The workshop will place particular emphasis on how nuclear energy—across electricity generation and non-electric applications—is represented in scenario models, underlying assumptions, analytical methods, and in the communication of results to decision makers.

Participants will be invited to review and discuss the guidelines for modelling nuclear energy in future energy scenarios. The event will also examine insights gained from comparing different modelling approaches and assumptions, highlighting how these choices influence the assessment of nuclear energy's role in secure and reliable energy systems.

The event will also provide an opportunity for the IAEA to update participants on the Atoms4NetZero initiative and ongoing collaborative work with several Member States. The event will also serve to identify areas of interest for further studies and future cooperation.

Target Audience

Member States and International Organizations are invited to designate participants for this event who have specialized knowledge of, or experience in, the design and/or use of energy scenario models to investigate pathways for the development of energy systems. This event is suitable for policymakers, technology developers, scientists, managers from the electricity, nuclear and hydrogen industries, as well as representatives of financial institutions working on or interested in energy systems, energy planning and the potential role of nuclear energy in contributing to cost-effective transitions. Member States are strongly encouraged to identify suitable women participants for this event.

Working Language(s)

English

Topics

The following topics will be covered in the event:

- The role of nuclear energy in energy system scenarios, including its integration into systems

with high shares of variable renewables, and its use for non-electric applications such as heat, hydrogen, and other fuel production.

- Cost optimization of energy transitions.
- Metrics and methodologies for assessing of reliability and resilience of energy systems.
- Modelling assumptions (costs, financing parameters, technology readiness, etc) for nuclear and other technologies.
- Modelling environmental impacts in scenarios to assess the resilience of future energy pathways/systems.
- Scenario modelling to inform policymakers and/or the finance community.
- Guidelines on modelling nuclear energy and findings from model comparisons

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 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 **29 May 2026**, 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 **29 May 2026**.

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.

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 **29 May 2026**.

Venue

The event will be held at the Vienna International Centre (VIC) 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.

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 Scientific Secretaries and correspondence on other matters related to the event to the Administrative Secretaries.