



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

Interregional Training Course on Energy Planning and Initial Steps for Embarking on a Nuclear Power Programme

Hosted by

The International Atomic Energy Agency

IAEA Headquarters, Vienna, Austria

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Information Sheet

Purpose

The purpose of the course is to enhance knowledge and skills of participants to develop energy planning studies in order to build a national position when embarking on a nuclear power programme, and to introduce them to the use of IAEA's energy system analysis and planning tools for this purpose.

Working Language(s)

The working language(s) of the event will be **English**.

Deadline for Nominations

Nominations received after **01 April 2026** will not be considered.

Project Background

As a low carbon source of energy, nuclear power is expected to play an increasing role in the energy mix of many countries around the world — for energy security and sustainable development, as well as for addressing environmental concerns. With more countries starting the operation of their first nuclear power plants (NPPs), as well as significant expansion in some countries, total global nuclear capacity is expected to grow despite the expected shutdown of several nuclear power plants in the coming years, with new technologies also expected to contribute in this regard. A nuclear power programme is a major undertaking requiring careful planning, preparation and investment in time, institutions and human resources. Nuclear power requires establishing a sustainable national infrastructure that provides governmental, legal, regulatory, managerial, technological, human resource, industrial and stakeholder support for the nuclear power programme throughout its life cycle. The INT2024 project aims to support participating Member States in creating an enabling environment to facilitate the safe, secure and sustainable introduction or expansion of nuclear power. It is intended to address the common issues identified in many of those Member States. It builds on the lessons learned from three previous four-year interregional projects in this field of activity (INT2013, INT2018 and INT2021) with adaptations to match the needs of the Member States.

Scope and Nature

For countries embarking on a nuclear power programme, energy planning plays a foundational role in the informed decision-making process defined in and before Phase 1 of the IAEA Milestones Approach. Appropriate methodologies and tools are needed to conduct the necessary assessments for developing national and sub-national plans, respecting national specifics and country-driven development goals, contributions to global energy and climate related goals. The training course will demonstrate IAEA's tools and methodologies provided through its capacity building program, for assessment and comparison of various energy system development paths and technological options when embarking on a nuclear power programme, considering the country own development goals and drivers for the consideration of nuclear power.

The training course will focus on the initial steps for embarking upon a nuclear power programme consisting of lectures and working sessions on energy planning for the assessment of cost-effective energy technologies, including nuclear power, in order to build a national position which is one of the 19 infrastructure issues in the Milestones Approach. The main topics to be covered will include:

Energy system analysis and planning;

Low-carbon technologies and innovative solution for emission reduction scenarios;

Demonstration of the application of the IAEA's tools to analyse the introduction of nuclear power in the energy mix of an embarking countries; comparison of various paths and technological options, including sector coupling and deep electrification; and how to assess these scenarios within national development goals

Work sessions on assessment of energy systems, and development of related case studies;

Energy planning as part of nuclear infrastructure development in order to build a national position.

Expected Outputs

The expected main output of this event is an improved understanding of analytical assessments applied for developing energy planning studies for countries embarking on a nuclear power programme. This may include overviews of targets, policies, and actions to be implemented with a focus on the energy sector, and in particular nuclear power, and modelling approaches for the assessment of various energy technologies. This improved understanding may help national professionals in their work towards building a national position providing the foundation for the future development of the nuclear power programme.

National professionals are also expected to enhance their skills and awareness of the importance of energy planning for sustainable energy development and the role of energy planning within nuclear infrastructure development and to support the initial steps required to embark on a nuclear power programme, and to prepare their countries to make an informed decision in Phase 1 of the Milestones Approach.

Participation

The event is open to up to 25 participants from the following Member States participating in the INT/2/024 project which need assistance to enhance the number and knowledge of staff involved in launching or expanding nuclear power programmes, namely:

Algeria, Azerbaijan, Bolivia, Burkina Faso, Chile, Colombia, Croatia, Dominican Republic, Ecuador, El Salvador, Ethiopia, Indonesia, Iraq, Jamaica, Kuwait, Kyrgyzstan, Laos, Malaysia, Mongolia, Morocco, Myanmar, Namibia, Niger, Paraguay, Rwanda, Senegal, Serbia, Singapore, Sri Lanka, Tanzania, Thailand, Tunisia, Uganda, Venezuela, Zambia, Zimbabwe

Participants' Qualifications and Experience

Selected participants will be asked to present their experiences on energy planning. They are thus required to be directly involved in the process (e.g., modelling, definition of targets, policies, actions) supporting studies considering the introduction of nuclear power.

The participants should be specialists in energy sector planning and environment/climate policy analysis. They can be engineers, economists, or environmental specialists.

Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
 - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
 - b. Search for the relevant technical cooperation event (**EVT2601376**) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

NOTE: Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline. **All nominations must include a scan of the candidate's first page of passport with photo.**

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

Should online application submission not be possible, candidates may download the nomination form for the training course from the [IAEA website](#).

NOTE: A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

Training on Basic Security in the Field (BSITF)

In order to comply with UN system-wide security measures, it is required that all training course participants complete the online security awareness training BSAFE (which replaces BSITF and ASITF), prior to traveling to locations where UN security phases are in effect. The aim of these course is to educate participants on how best to avoid or minimize potential dangers and threats, and to demonstrate what individuals can do if they find themselves in insecure situations. The course is available online (<https://training.dss.un.org/course/category/6>).

Once an individual has completed the training, he/she must go back to the main training page to receive the certificate. If the button to get the certificate is not immediately visible, please refresh the page. BSAFE is maintained by UNDSS; in case of problems with the system, please contact UNDSS through the "Contact Us" page on the training website (<https://dss.un.org/dssweb/contactus.aspx>).

This certificate is compulsory for any IAEA-supported activity and should be submitted, along with the Nomination Form, through the competent authority in your country (NLO). Copies of the certificate should be kept by the candidate for his/her records as the BSAFE certificate does not expire.

Administrative and Financial Arrangements

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency American Express, or a travel grant, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

NOTE: The event will be hosted by the International Atomic Energy Agency, therefore nominated participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as soon as possible.

Disclaimer of Liability

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Note for female participants

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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