



**IAEA**

International Atomic Energy Agency

*Atoms for Peace and Development*

# **Interregional Training Course on Energy Planning to define Nationally Determined Contributions for Countries Considering Nuclear Power**

**Hosted by**

The Government of Poland

**through the**

Ministry of Climate

Warsaw, Poland

**30 September-4 October 2024**

**Ref. No.: TN-INT2024- 2400814**

## **Information Sheet**

### **Purpose**

The purpose of the course is to enhance knowledge and skills of participants to assess cost-effective energy technologies, including nuclear power, for developing Nationally Determined Contributions under the Paris Agreement, and to train them in 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 10 June 2024 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

The Paris Agreement sets a target for holding the increase in the global average temperature to well below 2°C above pre-industrial levels, preferably below 1.5°C. To achieve this target, the Paris Agreement calls on all countries to prepare increasingly ambitious Nationally Determined Contributions (NDCs). NDCs outline concrete targets, policies and measures that governments aim to implement as a contribution to global climate action. As the major contributor to greenhouse gas emissions, the energy sector is central to these efforts. There are various technological options and energy demand / supply paths that could fulfil ambitious climate targets. These include but are not limited to nuclear power, renewables, energy efficiency measures and emerging/innovative alternative technologies and applications (e.g. hydrogen).

Appropriate methodologies and tools are needed to conduct the necessary assessments for developing national and sub-national plans, respecting national specifics and country-driven 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, including nuclear power, sector coupling and deep electrification for reducing related greenhouse gas emissions.

The training course will consist of lectures and working sessions on energy planning for the assessment of cost-effective energy technologies, including nuclear power, for developing NDCs and other sustainable energy strategies and plans and provide national policy makers with technically sound information. The main topics to be covered will include:

Climate change and sustainable development;

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 transition towards low carbon energy systems; comparison of various paths and technological options, including nuclear power, sector coupling and deep electrification;

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

Energy planning as part of nuclear infrastructure development.

## Expected Outputs

The expected main output of this event is an improved understanding of analytical assessments applied for developing NDCs. This may include overviews of NDCs, 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 the update and submission of NDCs in 2025.

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.

## **Participation**

The event is open to up to 20 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, Bolivia, Chile, El Salvador, Estonia, Ethiopia, Guatemala, Indonesia, Iraq, Jamaica, Kazakhstan, Kuwait, Kyrgyzstan, Laos, Malaysia, Mongolia, Morocco, Myanmar, Niger, Paraguay, Philippines, Rwanda, Senegal, Serbia, Singapore, Sri Lanka, Tanzania, Thailand, Tunisia, Uganda, Venezuela, Viet Nam, Zambia, Zimbabwe

## Participants' Qualifications and Experience

Selected participants will be asked to present their experiences on the development and implementation of NDCs. They are thus required to be directly involved in the process (e.g., modelling, definition of targets, policies, actions) supporting the development and implementation of NDCs under UNFCCC.

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 (**EVT2400803**) 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](mailto: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 Government of Japan, therefore nominated participants who require a visa to enter Japan should submit the necessary application to the nearest diplomatic or consular representative of Japan 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.

## **IAEA Contacts**

### **Programme Management Officer**

Mr Jing Zhang  
Division for Europe  
Department of Technical Cooperation  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA  
Tel.: +43 1 2600 26540  
Fax: +43 1 26007  
Email: [J.Zhang@iaea.org](mailto:J.Zhang@iaea.org)

### **Administrative Contact**

Ms Lena Krikorian  
Division for Europe  
Department of Technical Cooperation  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA  
Tel.: +43 1 2600 22422  
Fax: +43 1 26007  
Email: [L.Krikorian@iaea.org](mailto:L.Krikorian@iaea.org)