



Interregional Training Course on Reactor Technology Assessment for Small Modular Reactors (SMRs)

Hosted by

The Government of the United Arab Emirates

through the

University of Sharjah

Sharjah and Abu Dhabi, United Arab Emirates

16 to 20 November 2026

Ref. No.: TN-INT2025-2506145

Information Sheet

Purpose

The purpose of the event is to train the participants on Reactor Technology Assessment (RTA) presented and applied to various designs of the Small Modular Reactors (SMRs) emerging technologies.

Working Language(s)

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

Deadline for Nominations

Nominations received after **05 October 2026** will not be considered.

Project Background

SMRs are advanced nuclear reactors typically designed to generate electric power up to 300 MWe, the structures, systems and components of which can be fabricated in factories and transported to the installation site, shortening construction duration and reducing cost. Clean energy strategy advocates for the deployment of advanced nuclear reactors as a safe, reliable, flexible and competitive power source. SMRs based on different technologies, along with their various applications, are a promising option for near term and future deployment in Member States. The purpose of the project is to provide broad support to build Member States' capacities for development and deployment of SMRs in the context of a clean energy strategy, as a contribution of nuclear power to the global effort for climate change mitigation. The project will provide a wide range of forums to enable effective capacity building through training and technology transfer on all aspects of SMR development, including siting, design, and technology; engineering, manufacturing, construction, industrial supply chain, commissioning, operation, maintenance, and human resource management; fuel cycle; waste management; decommissioning; economics; financing; energy sustainability, nuclear safety, security and safeguards; emergency preparedness and response arrangements; and legal framework.

Scope and Nature

There are more than 80 SMR designs and concepts globally, with different design approaches, technologies, and safety features. Most of them are in various developmental stages. Four SMRs with different purposes (demonstration, experimental, commercial – electric/non-electric applications) are operational. Each design has its own advantages and disadvantages, and the choice of which SMR design to pursue depends on various factors such as the intended application, local regulations, and market demand.

A major challenge is the implementation of the RTA for near term deployment. It includes the entire selection of the most suitable reactor technology, which meets the objectives of a Member State's nuclear power programme. Documenting and justifying this RTA decision-making process requires detailed knowledge of reactor technologies and best practices. Thus, it is of utmost importance to improve the knowledge and to strengthen the capacity building in assessing the SMR technology options.

This Training Course will address the main considerations of the complexity involved in the selection of the most suitable reactor technology and the obligations associated with and responsibilities of an unbiased SMRs' assessment.

During the five-day Training Course, the selected participants will receive lectures from international

experts, as well as will conduct the RTA exercise working with the IAEA RTA IT Toolkit, develop summary report, present the results, and participate in interactive discussions. A potential technical visit to Abu Dhabi is foreseen as well.

By the end of this Training Course, the participants are expected to be familiar with the following aspects of applying the RTA for SMRs:

- IAEA Nuclear Reactor Technology Assessment for Near Term Deployment based on the Nuclear Energy Series, [No. NR-T-1.10 \(Rev. 1\)](#), 2022;
- IAEA [eLearning module](#) on Nuclear Reactor Technology Assessment for Near Term Deployment;
- IAEA Reactor Technology Assessment [IT Toolkit](#);
- IAEA Agency wide Platform on SMRs and their applications, [Small Modular Reactors: Advances in SMR Developments 2024 | IAEA](#);
- Design specifics for some of the SMR technologies and status of their deployment, ARIS database [Advanced Reactor Information System | Aris](#).

In addition, the training course will provide opportunities for participants to network and share information and good practices as well as other potential follow-up tasks and coordinated activities, as appropriate.

Expected outputs

The expected output of the Training Course is to strengthen capacity in the following areas:

- IAEA Nuclear Reactor Technology Assessment for Near Term Deployment: methodology, concept, preparation and application;
- Main key considerations when developing a national policy and strategy for national nuclear power programme in selecting the SMR options;
- Design specifics for some of the SMR technologies and status of their deployment.

Participation

The event is open to 25 participants from the following Member States which participate in the INT/2025 project: Algeria, Armenia, Azerbaijan, Brazil, Bulgaria, Czech Republic, El Salvador, Estonia, Ethiopia, Ghana, Hungary, Jamaica, Jordan, Kazakhstan, Libya, Malaysia, Mexico, Mongolia, Myanmar, Nigeria, Pakistan, Peru, Philippines, Romania, Rwanda, Senegal, Singapore, Slovenia, Slovakia, South Africa, Sri Lanka, Thailand, Tunisia, United Arab Emirates, Uganda, Ukraine, Zambia.

At no cost to the IAEA, participants from following countries can also be considered: Belgium, Canada, China, Denmark, Finland, France, Italy, Japan, Korea, Republic of, Russian Federation, Spain, United Kingdom, United States of America.

Participants' Qualification and Experience

Participants should be knowledgeable about their country's national strategy and specific plans for nuclear power programme status, development and planning. They should have initial understanding of the reactor technology assessment as decision making methodology and willing to share their experience and lessons

learned in assessing the national nuclear power programmes of relevance to this course scope and expected outcomes.

Accepted participants should visit the IAEA [eLearning module](#) on Nuclear Reactor Technology Assessment for Near Term Deployment, and become familiar with the content of the IAEA Nuclear Reactor Technology Assessment for Near Term Deployment based on the Nuclear Energy Series, [No. NR-T-1.10 \(Rev. 1\)](#), 2022.

In addition, the accepted participants should check the access to IAEA Reactor Technology Assessment [IT Toolkit](#) that requires the NUCLEUS account.

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. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
 - c. Search for the relevant technical cooperation event (EVT2506145) 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 this 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 AX Travel Management, or a travel allowance, 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 United Arab Emirates, therefore nominated participants who require a visa to enter the United Arab Emirates should submit the necessary application to the nearest diplomatic or consular representative of United Arab Emirates 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 (responsible for substantive matters):

Mr Mahfoudh Serhan Abdullah
Division of Programme Support and Coordination
Department of Technical Cooperation
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 26003
Fax: +43 1 26007
Email: M.S.Abdullah@iaea.org

Administrative Contact (responsible for administrative matters):

Ms Wenjing Qi
Division for Europe
Department of Technical Cooperation
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 25726
Fax: +43 1 26007
Email: W.Qi@iaea.org