



IAEA–STAR-NET Regional School to Train the Trainers on Nuclear Energy System Modelling and Assessment Using the INPRO Methodology

Virtual Event

26–30 April 2021

Ref. No.: EVT2100235

Information Sheet

Introduction

The International Atomic Energy Agency (IAEA) assists Member States in capacity building related to long-range and strategic planning for nuclear energy programmes in view of the long-term commitment involved, with obligations that extend well beyond 100 years. The International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) was established in 2000 with the goal of ensuring a sustainable nuclear energy supply to help meet 21st century global energy needs. INPRO's activities are centred on the key concepts of global nuclear energy sustainability and the development of long-range nuclear energy strategies, so that nuclear energy is and remains available to meet national energy needs.

Appropriate methodologies and tools are needed to conduct the necessary assessments for developing national plans, respecting national specifics and countries contributions to global energy and climate related goals. The IAEA has developed, under the aegis of INPRO, a methodology for assessing the sustainability of nuclear energy systems (NES). The INPRO methodology covers all areas relevant to the NES sustainability, all reactor types and fuel cycle facilities, all facilities of a NES, and all NES phases, from cradle to grave.

It is essential that the concept of the nuclear energy sustainable development, the IAEA methodology to assess the sustainability of NESs, the associated tools and services, the accumulated knowledge will be transferred to the young generation of future professionals who will further be engaged in planning, developing, and deploying sustainable solutions for nuclear energy systems in the IAEA Member States.

The School is organized with the support of the Regional Network for Education and Training in Nuclear Technology (STAR-NET). The STAR-NET was established in 2015 with the support of the IAEA to promote, manage and preserve nuclear knowledge, enhance cooperation in nuclear education and training, and to ensure the continued availability of talented and qualified human resources in the nuclear field. Currently the STAR-NET network unites 15 universities from Eastern Europe and Central Asia countries.

Objectives

The School aims to support capacity building and national human resource development in the nuclear energy sector.

The specific objectives of the event are to:

- provide introductory training on the planning and modelling of nuclear energy systems (NESs) and on the use of the INPRO methodology to perform sustainability assessments of NESs, in order to assist Member States in long range and strategic planning for the development of nuclear energy programmes as part of their national energy mix.;
- familiarize the participants with the INPRO concepts and methodology for nuclear energy system sustainability assessment in different areas, such as: economics, infrastructure, waste management, environment, proliferation resistance, reactors and fuel cycle safety; and
- develop understanding of sustainability issues in a planned nuclear energy system and ability to perform assessment of selected INPRO methodology criteria.

Target Audience

The event is open to participants from the East Europe and Central Asia countries that are either embarking on a new nuclear power programme or expanding an existing one.

The event is primarily targeted at the lecturers, post-graduates and research staff of the technical universities, centres of excellence and vocational education. The participants can also come from national energy/electricity planning organizations, utilities, research institutions, academia and international/regional organisations.

Working Language(s)

Russian.

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, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **5 April 2021**. Participants who are members of an organization invited to attend are requested to send the Participation Form (Form A) through their organization to the IAEA by above deadline.

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

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

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:

www.iaea.org/events/EVT2100235