



# **Advanced Regional Training Course on Analysis of Energy Demand**

**Hosted by**

**The Government of Tajikistan**

**through the**

**Chemical, Biological and Radiological and Nuclear Safety and Security Agency**

**Dushanbe, Tajikistan**

**4-15 November 2024**

**Ref. No.: ME-RER2018-EVT2403620**

## **Information Sheet**

### **Purpose**

The purpose of this event is to train the participants on energy demand assessments with using the IAEA's Model for Analysis of Energy Demand (MAED).

### **Working Language(s)**

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

### **Deadline for Nominations**

Nominations received after **16 August 2024** will not be considered.

## **Project Background**

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. Recognising this importance and in line with the NDCs, the EU requires its Member States to develop Integrated National Energy and Climate Plans (NECPs) from 2021 to 2030. Energy Community MSs are also recommended to follow this approach.

The TC project RER2018 “Analyzing Low Carbon Pathways towards an Ambitious Decarbonized Energy Sector by 2050” builds on the previous TC project RER2017. It was designed to support the development of energy strategies for climate change mitigation in line with the Paris Agreement, including country plans for the implementation of Nationally Determined Contributions (NDCs) and – as relevant for EU and Energy Community countries – integrated National Energy and Climate Plans (NECPs). It further aims to support Member States in their preparation for submitting related updates, which are due for NDCs by 2025 and for NECPs by 2023 and 2024, respectively, for the draft and final updates.

The project is a platform to discuss the main features and challenges of such strategies and plans. It supports assessments of energy pathways and associated technology mixes, including nuclear power. Through a series of meetings, trainings and expert assignments, the project contributes to exchanging experience and best practices among Member States and to strengthening capacities for energy and climate strategy development.

A key contribution to greenhouse gas emission reductions in support of achieving the Paris Agreement is expected to come from energy demand-side measures. Related emission reductions mainly result from (1) energy efficiency improvements, (2) fuel switching to lower carbon energy sources, such as through an electrification of energy demand, and (3) behavioural changes, such as through an increased use of public transport. While some of the associated emission reductions will materialize without any government interventions due to technological progress and consumer choices, others will require policy support.

This regional training course will focus on analysing future demand growth and demand-side measures as part of national energy scenarios in support of a transition to low-carbon energy systems. The IAEA’s Model for Analysis of Energy Demand (MAED) will be applied for this purpose.

## **Expected Outputs**

The expected main output of this event is an improved understanding of the assessment of future energy needs and the impact of policies and measures for a more efficient use of energy to reduce related greenhouse gases (GHG) emissions. In line with this, the event will build capacities for the analysis of energy demand scenarios. It will be encouraged that these approaches are applied as part of ongoing or future national studies.

This event will contribute to the overall outcome of the TC project RER2018, i.e., strengthened institutional capacities to develop national energy and climate plans and strategies to support defining commitments under the Paris Agreement.

## **Scope and Nature**

The event will introduce participants to approaches for assessing energy demand and related measures as an input to the development of updated NECPs and NDCs under the Paris Agreement. Participants will investigate the main socio-economic and technological drivers and trends regarding future energy demand in their country. They will be guided in the application of the IAEA tool MAED, which will be used to analyse various demand-side measures and their impacts on future demand and emissions.

As part of this event, an online pre-training on MAED may be organised. There's a possibility that the participants would be required to complete the online pre-training to be accepted for the in-person session. This pre-training is expected to consist of a self-paced e-learning module, online support sessions and home-based exercises. This will enable participants to get started with their work on their national country cases, which will continue during the subsequent in-person training. More information will follow if such an online pre-training is to be organised.

The in-person training will comprise of lectures, work sessions and discussions. The lectures will be given by both invited experts and IAEA staff members. Work sessions will focus on supporting participants in developing and updating national case studies. Participants should thus come equipped with their laptops.

To facilitate the update and development of national case studies, participants need to be well aware of their countries' energy and climate strategies and plans, specifically regarding the potential role of demand-side emission savings measures. As a further preparation to this training, participants are expected to do some background research on the contribution of the sectors: households, industry, services and transport to national greenhouse gas emissions. They should further identify the drivers affecting energy demand growth in these sectors, including demographic and economic trends. If available, participants should bring along studies on national energy demand scenarios, their national energy demand models and supportive statistics and projections.

Participants will be encouraged to reach out to relevant national institutions to share the findings of this event and apply the discussed approaches as part of currently ongoing or upcoming studies.

## **Participation**

The regional training course is open to participants from the participating Member States of the regional project RER2018 'Analyzing Low Carbon Pathways towards an Ambitious Decarbonized Energy Sector by 2050'.

## Participants' Qualifications and Experience

Participants should be specialists in energy & electricity sector planning & environment/climate policy analysis from institutions mandated with the development of national energy and climate plans & strategies. Ideally, they are involved in the development of demand-side strategies for climate change mitigation. They can be engineers, economists or environmental specialists.

It is encouraged to nominate up to two participants per Member State from different institutions supporting the development of energy and climate plans (e.g., representative of national energy statistics and data, energy planning institutions).

## 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 (**EVT2403620**) 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.

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.

## **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.

## **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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