



Regional Workshop on the Role of Electricity Grid in the Decarbonization Efforts

Hosted by

The Government of Türkiye

through the

Turkish Energy, Nuclear and Mineral Research Agency

Ankara, Türkiye

20 - 24 May 2024

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Information Sheet

Purpose

The purpose of the event is to facilitate discussions and exchange experiences on the role, challenges, and opportunities of the electricity grid in decarbonizing the energy system, as well as to discuss modelling approaches that capture the interactions of decarbonization efforts with grid development.

Working Language(s)

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

Deadline for Nominations

Nominations received after **10 March** will not be considered.

Project Background

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. The project also offers additional support to those Member States engaged in the development of national studies in line with the project’s objectives.

This meeting is organised in direct response to recommendations received from participants of the Regional Coordination Meeting held in June 2023 in Tajikistan.

Expected Outputs

The expected main output of this event is an improved understanding of the role of electricity grid in decarbonisation efforts, its challenges and opportunities, and its representation in the long-term scenarios. This includes a range of elements from integration of variable renewable energy, flexibility and storage, demand side management, electrification of transportation, heating and other end-uses where electricity grid plays an important role, to congestion management, investments in infrastructure and technological advancements such as smart grids and advanced metering. The exchange of experience may also contribute to a more harmonised modelling approach being applied in energy systems models by teams participating in the project.

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.

Scope and Nature

This event will provide an opportunity for experts involved in the development of national energy and climate plans and strategies to exchange their knowledge and learn from each on the role of electricity grid in the transition to a decarbonized energy system.

The invited participants and experts will present on their related work, both in presentations and during discussion sessions. These sessions will serve to discuss aspects of electricity grid in more depth. It is foreseen that one full day may be dedicated to an improved understanding of its role by integrating renewable energy sources, enabling energy storage, and facilitating electrification. Similarly, another day would have detailed discussions related to its challenges including intermittency, infrastructure upgrades, policy hurdles, and funding. Opportunities that lie in technological innovation, grid modernization, decentralization, and international collaboration would equally be tackled in the discussion sessions. Finally, the diversity and development of modelling approaches to represent electricity grids in decarbonization efforts is expected to be discussed.

Participation

Given its focus on electricity grid to facilitate decarbonisation efforts in national energy/climate plans and strategies, the workshop is open to participants from the participating Member States of RER2018.

Participants' Qualifications and Experience

Participants should be specialists in energy sector planning and/or operation. They can be representatives of relevant ministries, national regulatory authorities, power utilities and transmission system operators. They can also be engineers, economists or environmental specialists.

It is encouraged to nominate up to two participants per Member State from different institutions contributing to analysis of transition to decarbonised energy system.

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 (**EVT2400352**) 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.

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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