THE ROAD TO ZERO-CARBON GRIDS

Knowledge sharing between the United Kingdom and Hungary to enhance energy security

Online workshop

23rd February 2023, 9:00 am – 12:00 pm CET

Organised by REKK & the British Embassy Budapest

Both Hungary and the United Kingdom are committed to reaching zero-carbon electricity systems (90% by 2030, and 100% by 2035, respectively). However, the UK has the aim to ensure that its electricity grid can support periods of 100% carbon-free generation already by 2025.

Renewable electricity generation is reaching high shares (43.1% in the UK and 11.2% in HU) and the electricity systems are under continuous development to keep pace with the integration of variable and/or distributed generation capacities. Several innovative solutions are explored, targeting options and technologies enhancing the accommodation of renewables, including *technological innovations* and related *market and regulatory solutions*.

The aim of the workshop is to discuss the following:

- main challenges of net-zero grids,
- sharing the UK experience related to the system integration of variable and/or distributed RES capacities and the allocation method of grid connection rights among developers,
- getting an insight into how new technologies and related competitive service procurement enables the accommodation of high RES-E shares,
- understanding how flexibility solutions are ensured in the UK and at what cost,
- sharing the UK experience with pre-requisites of successful electrification,
- receiving advice on how the coupling of energy sectors (electricity, H&C and transport) can be fostered to help decarbonise the whole energy system, and how policymakers and regulatory institutions in the UK collaborate on this strategy.

Agenda

9.00 - 9.05 CET	***Welcome remark*** **László Szabó, Director, REKK**
9.05 - 9.15 CET	***Opening Speech*** **Paul Fox, British Ambassador to Hungary**

9.15 – 10.30 CET	***Session I - Keynote Speeches*** ***UK AND HUNGARIAN NET ZERO CARBON ACHIEVEMENTS*** **SPEAKERS:** • **Julian Leslie, Head of Networks and Chief Engineer Networks, National Grid ESO: UK TSO views on challenges and solutions of the net zero carbon grid** • **Márk Alföldy-Boruss, Deputy State Secretary, Ministry of Energy, Hungary** • **Péter Kovács, Strategic Grid Development Leader, E.ON EED: Challenges of decarbonised grid management and renewables from a DSO viewpoint** • **Evelin Kiss, Head of Business Development Department, MAVIR Hungarian Transmission Operator Co.: TSO views on challenges and solutions of the net zero carbon grid** **QUESTIONS AND ANSWERS** **CHAIR:** **László Szabó, Director, REKK**

10.30 – 10.45 CET	***Short break***

10.45 – 11.45 CET	***Session II - Roundtable Discussion*** ***ROAD TO ACTIVE NETWORK MANAGEMENT*** Technological development targets system stability both in the UK and Hungary. In this panel, we will discuss how these development projects proceed. Besides technological solutions, we will also discuss the system-level value of flexibility and how the markets and regulation allow all technologies to provide response and reserve. Topics will also cover the challenges of TSO-DSO cooperation. **PARTICIPANTS:** • **Andrew Lever, Director, Energy Transition, The Carbon Trust** • **Julian Leslie, Head of Networks and Chief Engineer Networks, National Grid ESO** • **Péter Kovács, Strategic Grid Development Leader, E.ON EED: Challenges of decarbonised grid management and renewables from a DSO viewpoint** • **Evelin Kiss, Head of Business Development Department, MAVIR Hungarian Transmission Operator Co.: TSO views on challenges and solutions of the net zero carbon grid** **QUESTIONS AND ANSWERS** **CHAIR:** **Phil McNally, Research Fellow in Electricity Markets, University College London**

11.45 – 12.00 CET	***Closing remarks – László Szabó, Director, REKK***

Participation in the online workshop is free of charge, please register here.

The participation link will be distributed upon registration.

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