

# THE ROAD TO ZERO-CARBON GRIDS

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

### Online workshop

23<sup>rd</sup> 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	<i>Welcome remark</i> <b>László Szabó, Director, REKK</b>
9.05 - 9.15 CET	<i>Opening Speech</i> <b>Paul Fox, British Ambassador to Hungary</b>
9.15 – 10.30 CET	<i>Session I - Keynote Speeches</i> <b>UK AND HUNGARIAN NET ZERO CARBON ACHIEVEMENTS</b>  <b>SPEAKERS:</b> <ul style="list-style-type: none"><li>• <b>Márk Alföldy-Boruss, Deputy State Secretary, Ministry of Energy, Hungary</b></li><li>• <b>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</b></li><li>• <b>Péter Kovács, Strategic Grid Development Leader, E.ON EED: Challenges of decarbonised grid management and renewables from a DSO viewpoint</b></li><li>• <b>MAVIR Hungarian Transmission Operator Co.: TSO views on challenges and solutions of the net zero carbon grid (speaker to be confirmed)</b></li></ul> <b>QUESTIONS AND ANSWERS</b>  <b>CHAIR:</b> <b>László Szabó, Director, REKK</b>
10.30 – 10.45 CET	<i>Short break</i>

10.45 – 11.45 CET	<p><i>Session II - Roundtable Discussion</i></p> <p><b>ROAD TO ACTIVE NETWORK MANAGEMENT</b></p> <p>Technological development targets system stability both in the UK and Hungary. In this panel, we will discuss how these development projects proceed.</p> <p>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.</p> <p><b>PARTICIPANTS:</b></p> <ul style="list-style-type: none"><li>• <b>Andrew Lever, Director, Energy Transition, The Carbon Trust</b></li><li>• <b>Julian Leslie, Head of Networks and Chief Engineer Networks, National Grid ESO</b></li><li>• <b>Péter Kovács, Strategic Grid Development Leader, E.ON EED: Challenges of decarbonised grid management and renewables from a DSO viewpoint</b></li></ul> <p><b>QUESTIONS AND ANSWERS</b></p> <p><b>CHAIR:</b></p> <p><b>Phil McNally, Research Fellow in Electricity Markets, University College London</b></p>
11.45 – 12.00 CET	<b>Closing remarks – László Szabó, Director, REKK</b>

Participation in the online workshop is free of charge, [please register here](#).

The participation link will be distributed upon registration.