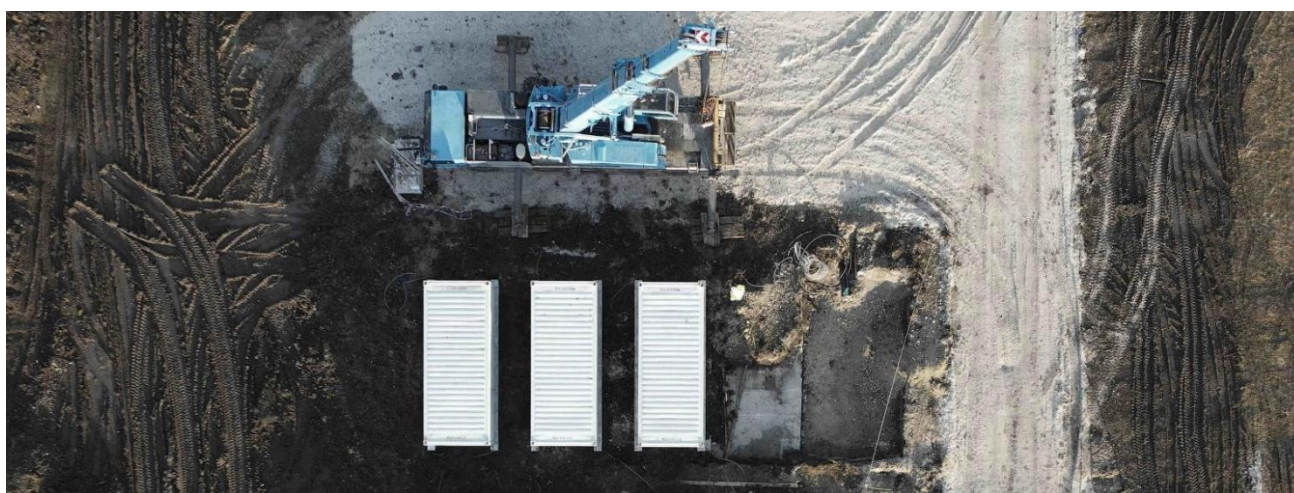


BEYOND BATTERIES – EXPLORING LONG-DURATION ELECTRICITY STORAGE SOLUTIONS

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

29 January 2024, 2:00 pm – 4:30 pm CET, Online workshop

Organised by REKK & the British Embassy Budapest



Vanadium flow-batteries in Öskü, Hungary. Source: Invinity.com

As the energy transition accelerates and variable renewable energy sources like wind and solar power expand rapidly, long-duration energy storage (LDES) is emerging as a critical solution. Technologies such as liquid air storage, compressed air storage, flow batteries, and thermal energy storage can store excess renewable energy for extended periods, even across seasons, enhancing energy security and independence. The UK has been at the forefront of LDES innovation, with researchers, innovators, and technology providers already piloting these technologies. To further incentivize investment, the UK government announced a long-duration storage scheme in October 2024.

Our workshop will delve into the most promising LDES technologies and their applications. UK experts will present innovative pilot projects showcasing three different technologies, highlighting technological and economic advancements and their potential for wider deployment. A panel discussion featuring UK and Hungarian stakeholders, including regulators, project owners, and potential end-users, will explore regulatory and market barriers that need to be addressed.

This collaborative effort aims to foster knowledge sharing and provide valuable insights into market and policy developments, enabling representatives from both countries to learn from each other's experiences and achievements.

The aim of the workshop is to discuss the following:

- UK experiences and pilot projects in innovative long-duration energy storage technologies (supply side)
- Potential end-users of long-duration energy storage (demand side)
- Potential markets for long-duration energy storage
- Sharing experiences with the regulation of long-duration energy storage.

Agenda

- 14:00 – 14:05 WELCOME REMARKS by László Szabó, director of REKK
- 14:05 – 14:15 OPENING SPEECH by Mr. Paul Fox, British Ambassador to Hungary
- 14:15 – 14:30 TECHNOLOGIES AND CHALLENGES OF LONG-DURATION ENERGY STORAGE
Viktor Rácz, Senior Research Associate, REKK
- 14:30 – 15:20 INNOVATIVE APPROACHES AND PILOT PROJECTS OF VARIOUS LDES TECHNOLOGIES FROM THE UNITED KINGDOM
Pilot 1 Gravity energy storage – Lukáš Adámek, Project Development Manager EU at Gravitricity Ltd
Pilot 2 Compressed air / liquid air – Prof Yulong Ding, Professor of chemical engineering, University of Birmingham
Pilot 2 Flow batteries – Fred Hartshorn, Sales Manager, UK, Invinity Energy Systems (*tbc*)
Q&A with the audience
- 15:20 – 16:20 PANEL DISCUSSION
David Jones, Senior Policy Manager at OFGEM
Pál Ságvári, Vice President for Strategic and International Affairs, Hungarian Energy Utility and Public Utility Regulatory Authority (*tbc*)
Sarah Keay-Bright, Market Strategy and Investment Manager at National Energy System Operator
Balázs Gyepes, CEO at STS Group (*tbc*)
Moderator: Viktor Rácz, senior research associate, REKK
- 16:20 – 16:30 Q&A with the audience & Closing remarks

Participation is free of charge.

Please register [here](#).