# Flexibility from Power-to-Hydrogen (P2H2) Webinar

*Online event, 01 February 2023 14:30-16:30h CET*

The webinar will focus on the impact of grid-connected Power-to-Hydrogen (P2H2) capacities on the electricity system, in terms both of system development planning and operations, with particular focus on provision of flexibility by electrolysers for system services. The webinar will bring together experts in the field of future of energy systems to exchange on the trends, perspectives of industrial developers on electrolysers projects deployment, technical assessment of electrolysers, long-term storage potential, an evaluation of the economic viability of grid services from P2H2 and the interaction with suitable market schemes. One of the key objectives is to create a common ground of constructive awareness between TSOs and industrial stakeholders on the extent to which electrolysers (P2H2) will have an impact on the energy system development, in particular with the provision of system services.

|  |  |  |  |
| --- | --- | --- | --- |
| TOP | Subject | Presenter | Time |
| 1.  | Welcome and introduction to Flexibility from Power-to-Hydrogen (P2H2) | Opening remarks on behalf of Håkon Borgen, EBTSO-E RDIC Chair by Norela Constantinescu***,*** *ENTSO-E*Presentation of agenda & opening poll byModerator | 10min5min |
| 2. | Session 1: Trends and projects for electrolysers deployment  | Hydrogen market deployment and needed infrastructure - Grzegorz Pawelec, *Hydrogen Europe* Scaling up green hydrogen production projects to enhance power system flexibility - Alexandre Oudalov, *T&D Europe*  | 10min10min |
|  | Slido Q&A |  | 10 min |
| 3. | Session 2: Assessment of technical capabilities of electrolysers to provide grid system services Hydrogen for long term flexibility (Power System View)Hydrogen for long term flexibility (Hydrogen Business View) | Technical characteristics of electrolyser technology & capabilities of providing system services – Christos Dikaiakos, *ENTSO-E*P2H2 & VRES Curtailment; potential role of hydrogen in the broader energy systema – Antonio Iliceto, *ENTSO-E*Role of Hydrogen storage, transportation and end-use in energy system flexibility - Alexandre Oudalov, T&D EuropeHydrogen as a key enabler of system flexibility and adequacy - Joerg Kerlen, *Hydrogen Europe* | 10min10min10min10 min |
|  | Slido Q&A |  | 10 min |
| 4.  | Session 3: Electrolyser business models, barriers, assumptions, and recommendations  | Panel discussion with 4 speakers + moderation by ENTSO-E  | 30 min |
|  |  |  |  |
| 5.  | General Wrap-up and follow-ups | Norela Constantinescu, *ENTSO-E* | 5 min |