

Hydrogen supporting the energy transition

Hydrogen is gaining rapidly attention around the world. Besides its traditional use as feedstock, It can be used also as a fuel, as energy long term storage or as an energy carrier, through many possible applications not only in electricity supply but also across industry, transport and buildings sectors, supporting the decarbonisation process, provided it is produced from CO₂-free sources. Thus, in the future CO₂-free energy ecosystem green hydrogen shall complement electrification in specific industrial processes and demand segments, while also enacting smart sector integration providing short term and long term flexibility options for balancing the power system, under an overall optimisation goal of both energy sources and energy infrastructures.

This workshop will focus on rationale, main characteristics, technical and economic challenges to reach the viability of a future energy system integrating hydrogen as one of its pillars, as well as a worldwide outlook on strategies and pilot projects. The role of Cigre in hydrogen technologies development will be debated.

Time	Topic	Speakers
12:00 -12:05	Welcome and introduction Moderation	<i>Antonio Iliceto, Chair of SC C1 and Christine Schwaegerl, Chair of SC C6</i>
12:05 -12:15	Role of Cigre in Hydrogen debate	<i>Marcio Szechtman TC chair</i>
12:15 -12:45	Setting the scene: basic info on Hydrogen value chain & economics	<i>Antonio Iliceto</i>
12:45 -13:05	Technical and economic challenges to reach viability	<i>Alessandro Clerici, Honorary Chair WEC Italy and FAST</i>
13:05 -13:20	Cigre activities on hydrogen in C1 – system aspects and use cases approach	<i>Alexandre Oudalov, C1.48 convenor</i>
13:20 -13:35	Cigre activities in C6 - hydrogen in mobility and as decentralised energy resource	<i>Geza Joos, C6.42 convenor</i>
13.35 –13.50	Panel Discussion - Questions and Answers	<i>Audience</i>
13:50 -14:10	Coffee Break	
14:10 – 14:30	European Hydrogen Strategy, pilot projects and regulation	<i>Hydrogen Europe, tbc.</i>
14:30 -14:50	Hydrogen perspectives in the Americas	<i>Marc McGranaghm / Jeffery Preece, EPRI</i>
14:50 -15:05	Hydrogen perspectives in China	<i>Dr. Cenyu Yang, China Electric Power Research Institute, State Grid Corporation of China (SGCC)</i>
15:05 -15:20	Hydrogen Perspectives and Challenges in Japan – a view of private sector	<i>Tomonori Hirata, Chiyoda Corporation</i>
15:20 -15:40	Hydrogen from the deserts, focus on Mediterranean & Middle East	<i>Cornelius Matthes, CEO Dii</i>
15:40 -15:55	Panel Discussion - Questions and Answers	<i>Audience</i>

15:55 -16:00	Closing remarks	<i>Antonio Iliceto, Christine Schwaegerl</i>
--------------	-----------------	--