



UNECE technical workshop: Sustainable hydrogen production in CIS countries

23 March 2022, 10:00 – 13:00 CET
Geneva and online

This technical workshop is part of the project: [“Sustainable hydrogen production in the UNECE region and its role in the development of a hydrogen ecosystem and export potential”](#). The project is based on the premise that hydrogen could transmit up to 24% of the world’s energy by 2050, and is aimed to help countries in Eastern Europe and Central Asia to develop their national hydrogen action plans and accelerate the needed action.

Context:

This project builds on to-date activities of [UNECE Task Force on Hydrogen](#) and the [Technology Brief on Hydrogen](#). During the [project launch](#) we reviewed global experiences in accelerating transition to hydrogen-based society, and discussed how to jumpstart hydrogen production and export potential of CIS countries. While the December webinar was policy and strategy oriented, this workshop will focus on technical aspects of sustainable hydrogen production.

Objective:

To help countries in Eastern Europe and Central Asia harness potential of hydrogen production and trade and develop a regional hydrogen ecosystem. During this workshop experts will:

- Review methods to produce sustainable hydrogen (electrolysis, pyrolysis, biomass, fossil with CCUS)
- Discuss cost and technical performance of various hydrogen production pathways in CIS countries
- Identify economic, technical, policy and investment barriers to hydrogen projects
- Review latest developments in hydrogen taxonomy and their impact on CIS countries

Audience and outcomes:

Policy- and decision-makers, the private sector, investors, academia, and civil society. As a result of this technical workshop, the participants will be able to:

- Better understand the potential of CIS countries in hydrogen production technologies
- Increase resilience of national power sectors and energy intensive industries through application of best practices and innovative business models
- Improve capacities of national statistic units in data acquisition and data quality
- Improve transboundary energy cooperation to achieve SDG7 and broader UN 2030 agenda

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Timetable and Speakers

Time	Topic	Speaker(s)
10:00	Welcoming remarks	Ms Olga N. Yudina, REA, Vice-chair, Group of Experts on Gas
10:05	UNECE work on Hydrogen	Ms Iva Brkic, UNECE
<p>Sustainable hydrogen production methods – technology pitch presentations <i>(technology experts to take the lead)</i></p>		
10:10	Green hydrogen: electrolysis	
10:17	Hydrogen from biomass	
10:23	Hydrogen from nuclear power plants	
10:30	Hydrogen: Pyrolysis	
10:37	Hydrogen from natural gas with CCS	
10:43	Hydrogen from coal with CCS	
<p>Q&A session with Beneficiary Countries – Discussion on national potential, priorities, identified opportunities and challenges <i>(representatives from beneficiary countries to take the lead)</i></p>		
11:00	Kazakhstan	
11:10	Uzbekistan	
11:20	Kyrgyzstan	
11:30	Tajikistan	
11:40	Turkmenistan	
11:50	Azerbaijan	
12:00	Belarus	
12:10	Georgia	
12:20	Russian Federation	
12:30	News from Europe - Green taxonomy and the role of hydrogen in it	
12:40	The way forward	Branko Milicevic, UNECE Gianluca Sambucini, UNECE Iva Brkic, UNECE
13:00	End	