U.S. Commercial Service Turkey

invites you to

U.S. - TURKEY HYDROGEN ENERGY & FUEL CELL TECHNOLOGIES FORUM



Hydrogen - the future for a Clean World!

- Hydrogen, the simplest and most abundant element in the universe, is found in water, fossil fuels, and all living matter, but rarely exists as a gas on Earth — it must be separated from other elements.
- Various domestic resources can be used to produce hydrogen, including renewables (wind, solar, hydropower, biomass, and geothermal energy), nuclear power, and fossil fuels (e.g., natural gas and coal - with carbon capture and sequestration).
- The United States currently produces more than 10 million metric tons of hydrogen per year, about one-seventh of the global supply.
- The U.S. Department of Energy's (DOE's) Hydrogen and Fuel Cell Technologies Office launched the H2@Scale initiative to identify new and emerging markets where hydrogen technologies can add value to economic, environmental, and energy resilience fronts.
- H2@Scale can integrate sectors like steel manufacturing, data centers, ports, and medium- and heavy-duty trucks.
- As announced by Turkish Minister of Energy and Natural Resources Mr. Fatih Dönmez, Turkey's will consider views of sector representatives in its 2021 Hydrogen Strategy.
- Turkey has a pilot project to mix hydrogen with natural gas in different amounts at the GAZBIR-GAZMER facility in Konya.
- Turkey plans to blend hydrogen with natural gas at power plants, in natural gas pipelines and in underground gas storage facilities, and use it for the transportation sector, including railways.

Event Dates

Day 1 - June 15, 2021
09:00 - 12:15 EDT
16:00 - 19:15 TRT

Register

Day 2 - June 16, 2021
09:00 - 12:45 EDT
16:00 - 19:45 TRT

Register

Location

Virtual - event link provided upon registration
**Please register for each day separately at links above.

Cost

Participation is **free** of charge upon registration.

Content

Presentations are in **English** only. See detailed program on following page.

For your questions:

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June 15, 2021

Master of Ceremonies: Heather Byrnes, Minister Counselor for Commercial Affairs in Turkey and Regional Senior Commercial Officer, Eurasia (U.S. Commercial Service Turkey)

09:00 EDT/16:00 TRT	**Welcome & Keynote:** David S. De Falco, Deputy Assistant Secretary, Office of Europe and Eurasia, Global Markets, International Trade Administration, U.S. Department of Commerce Andrew Light, Assistant Secretary for International Affairs, U.S. Department of Energy Dr. Alparslan Bayraktar, Deputy Minister, Ministry of Energy and Natural Resources, Republic of Turkey

09:30 EDT/16:30 TRT	**Clean Hydrogen Generation & Storage:**
	Introduction, Hydrogen Collaborative Efforts
	Hydrogen & Fuel Cell RD&D
	• Development and Scale-up of Electrolyzers for Green H_2
	• Development of Materials-based H2 Storage Technologies
	• RD&D of H_2 & Fuel Cell Technologies for Transportation *(primary focus on heavy-duty end-uses)*:
	  ○ Performance and durability of fuel cells for vehicles
	  ○ Refueling station components, systems and siting
	  ○ Composite tanks for onboard storage

10:30 EDT/17:30 TRT	**Hydrogen & Fuel Cell R&D** • Hydrogen Production from local coal resources • Dissemination of local fuel cell technologies • Use of hydrogen in natural gas systems
11:15 EDT/18:15 TRT	**Turkey's Hydrogen Energy Strategy & Technological Developments**
12:00 EDT/19:00 TRT	**Closing Remarks** David M. Satterfield, U.S. Ambassador to Turkey

June 16, 2021

Master of Ceremonies: Serdar Cetinkaya, Energy Leader and Deputy Commercial Attaché (U.S. Commercial Service Turkey)

09:00 am EDT/16:00 TRT	**Fuel Cell Technologies and Hydrogen Fuel Stations** **Hydrogen Pipelines and Use of Hydrogen in Natural Gas Pipelines and Storage Facilities**
10:00 am EDT/17:00 TRT	**Use of Boron-based Compounds as Hydrogen Carrier and its Implementation in Fuel Cells**
11:00 am EDT/18:00 TRT	**Industry Perspectives by U.S. and Turkish Companies on Utilization of Clean Hydrogen**
12:30 pm EDT/19:30 TRT	**Closing Remarks**