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1. [2022/05/24 - Storage, Monitoring Conference Session Set by Society of Petroleum Engineers](#)

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2022/05/24 - Storage, Monitoring Conference Session Set by Society of Petroleum Engineers

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Body

(TNSEve) -- The Society of Petroleum Engineers has scheduled a conference session as part of its The Role of Oil and Gas in Emerging Hydrogen Markets Forum on May 24, 2022, entitled "Storage and Monitoring":

According to the agency website:

Tangible opportunities exist in the quest of a hydrogen economy, conditioned by range of technical, regulatory, and practical challenges to be solved.

One of these being storage. Large-scale utilization of hydrogen gas as an energy carrier will require significant bulk storage capacity. BNEF (Bloomberg's New Energy Finance) estimated in 2020 that for hydrogen to be competitive with natural gas, over 14,000 salt caverns would need to be built in order to store pressurized hydrogen, at a cost of US\$637 billion.

Depleted oil and gas field and saline aquifer (porous media) reservoirs are additional options for hydrogen storage but require further research and testing. Liquefying the hydrogen, or converting the hydrogen to ammonia are options to increase density (and decrease storage costs), but add processing cost, and in particular, liquefaction of hydrogen is expensive.

Session Chairpersons: Wafik Beydoun, IOGP; Mark Shuster, *Bureau of Economic Geology*, University of Texas at Austin

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More information about the event can be found at <https://www.spe.org/events/en/2022/forum/22fus2/schedule-overview.html>

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