

Colorado Hydrogen Network



An initiative of



Colorado Cleantech Industries Association

Newsletter January 2021

2020s, the Decade of Hydrogen

Various pundits in the world of hydrogen have announced that the 2020s is the decade of hydrogen. It's easy to see why, with solar and wind dropping the price of electricity, and the money and pledges to support hydrogen by many of the world's major governments. We at the Colorado Hydrogen Network (CHN) certainly believe this *is* the decade of hydrogen and we're going to do our best to fulfill that prediction.

Upcoming Events & Announcements

CHN January Monthly Meeting

All who are interested in hydrogen are encouraged to attend. The November Membership Meeting will take place via Zoom. You may follow the link below for access.



Tuesday, January 19

3:30 - 5:00 p.m. MST

<https://us02web.zoom.us/j/4212771558>

Passcode: CHN

Networking & Activities

CHN introduced one of our members, [Czero](#) to the [Leighty Foundation](#) regarding a Department of Energy Funding Opportunity Announcement (FOA). We wish them both success in that pursuit. Watch for an interview with Bill Leighty in an upcoming podcast.



CHN was contacted by [Dinesh Reddy Srirangapall](#) who is an engineer and hydrogen advocate in Michigan. Dinesh is interested in starting a movement in Michigan similar to the Colorado Hydrogen Network. We plan to work with Dinesh to provide whatever help and advice that we can to further hydrogen infrastructure in Michigan.



CHN has connected with a group of graduate students from the University of California at Irvine: Prantik Saha, Gabriel Leonard, Sam Hince and Phillip Ahrend. They have formed a company called [H2 Aerospace Inc.](#) whose goal is to develop hydrogen-powered aircraft.



CHN has communicated with [Hyundai America Technical Center](#) to inform Hyundai that CHN is proceeding with plans to deploy 5 hydrogen fuel stations in the Denver-Boulder area.



CHN has connected with [Roush Cleantech](#) as a source of fuel cell trucks. Roush Cleantech is a vehicle integrator of alternative fuel vehicles, including hydrogen. CHN intends to introduce Roush to businesses in Colorado who are interested in acquiring fuel cell trucks.



CHN has corresponded with Unique Electric Solutions (UES) who is also a source of fuel cell trucks. As with Roush, CHN intends to connect UES with businesses in Denver-Boulder who are interested in acquiring fuel cell trucks.



CHN sponsored a meeting with the [Platte River Power Authority](#), [Proton Technologies](#), Dr. Bryan Willson of the CSU Energy Institute, and Mahesh Albuquerque and Maria Eisemann of the Colorado Energy Office to investigate the idea of converting utility gas and coal-fired power plants to burn hydrogen. The zero-carbon hydrogen would be extracted from abandoned oil wells. Colorado has over 16,000 of these wells and wells are adjacent to coal and gas power plants. Further study is needed around a number of issues.



Projects and Initiatives

Clean Cities – We continue to work with Denver Metro Clean Cities (DMCC) and Northern Colorado Clean Cities (NCCC) to engage with truck users in the Denver-Boulder area who may be interested in acquiring fuel cell trucks. These potential users are needed in order to become customers for the hydrogen from our first planned stations.



The HydrogenNowCast



www.colorado-hydrogen.org

Podcast Update

Podcasts are released every two weeks on Fridays. To date, we have released 17 podcasts and the show has achieved over 3,200 downloads worldwide, with listeners on all continents (except Antarctica).

The latest episode, #17, features an interview with CHN Member Xavier d'Hubert where we discuss the role of hydrogen in large-scale industrial processes

Please help us promote the show by subscribing and giving us a rating in one of these podcast apps:

[Apple Podcasts](#) | [Stitcher](#) | [Spotify](#) | [Google Podcasts](#) | [iHeart Radio](#) | [Amazon Music](#)

News & Events

The World's First Hydrogen Hubs Are In The Making - a new generation of hydrogen plans are now coming forth from companies, industry groups and countries. The remarkable number of hydrogen plans around the world indicate that a significant threshold has been reached. They cover an extensive range of applications, but they share a perspective that sees hydrogen as an indispensable energy intermediary in a future zero-carbon economy, one that carries the power of renewable solar and wind sources to diverse end uses.

Intrinsic in the plans are two basic geographical arrangements. One is dispersed, with hydrogen becoming a fuel for buildings, heating homes and businesses, and a fuel for cars and trucks in a network of hydrogen refueling stations. The other is concentrated, in industrial centers and ports, where hydrogen and hydrogen-derived fuels are produced to supply nearby industries, power plants and freight shipping.

Gigawatt-scale: The World's 13 Largest Green-Hydrogen Projects - Despite all the challenges that 2020 has brought, a staggering 50GW of green-hydrogen electrolysis projects have been announced this year, out of a current global total of 80GW, as more and more countries announce ambitious clean-hydrogen strategies to help them decarbonize transport, heating and heavy industry.

Big Oil Seeks Redemption in the Hydrogen Revolution - What's a fossil fuel company to do when the world is planning to give up on fossil fuels? Join the revolution, of course. That helps explain the enthusiasm of Equinor ASA, Royal Dutch Shell Plc and PetroChina Co. about getting in on the switch to a hydrogen economy.

Creating Demand at Scale for Green Hydrogen is Key to its Development - and will require support from industry and policymakers. Green hydrogen could change the renewables landscape.

2020s: The Hydrogen Decade - The world's great powers are starting to put serious money into promoting hydrogen as a mainstream world power source. (Editor's note: Hydrogen is not a "power source", it's an energy carrier. Wind and solar are the primary energy sources for green hydrogen.)

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