

# Colorado Hydrogen Network



An initiative of



## Newsletter - July 2020

### Upcoming Events

#### July Membership Meeting

All who are interested in hydrogen are encouraged to attend. [Starfire Energy](#) will be presenting at our July meeting. We will be reaching out to member companies to present in coming meetings.



The July membership meeting will take place via Zoom. You may follow the link below for access.

Tuesday, July 21st  
3:30 - 5:00 p.m. MDT

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

#### Webinars

CHN is presenting a series of free webinars in collaboration with [Colorado Cleantech Industries Association](#), [Denver Metro Clean Cities](#) and the [Colorado Energy Research Collaboratory](#).

**July 23:** The Colorado Hydrogen Network: Initiatives and Mission

**August 20:** The role of Electric Utilities & Hydrogen Generation in the Energy Transition

All webinars are **10:00 - 11:00 a.m. MDT**.

Register [here](#)



**Colorado Energy Research Collaboratory**  
*Securing a Sustainable & Resilient Energy Future*

### Activities and Outreach

#### Networking

CHN connected with the GM of Utilities at Wartsila. Wartsila has modeled several scenarios for California and the western USA based on different technologies and assumptions, including Power to Fuel solutions in these scenarios for both Power to Methane and Power to



Hydrogen.  
For more information, read their white paper [here](#).



The [Alaska Conservation Foundation](#) is conducting analysis to find a way to convert shipping vessels (30 to 80 ft) to zero carbon propulsion. CHN has linked Alaska Conservation Foundation with [Starfire Energy](#) to investigate ammonia as a maritime fuel.



CHN connected with Saoradh Enterprise Partners. SEP is small investment company that invests in clean energy and fuel companies. SEP asked CCIA for local companies that are active in the Power to RNG business. CHN will bring awareness to new investment opportunities for SEP.



HyET is a Dutch company that develops thin film PV solar technology and electrochemical compressor technology for hydrogen. HyET works closely with NREL on both technologies. We got an update on the TRL status of the hydro-compressor technology and discussed opportunities to create a commercial demonstration of the technology in

Colorado. Ideas were created and hopefully we can report further progress in next newsletters.



CHN was contacted by Barber-Nichols--a Denver company that manufacturers compressors and thermal management systems for commercial and military applications. Potential collaboration is in the works.

## Grant Opportunities

There are active grant opportunities with closing dates at July 31, 2020. Although providing again a short window, these might provide opportunities for the CHN members.

Last Wednesday DOE released a Cooperative Research and Development Agreement (CRADA) Call opportunity with two topic areas: Hydrogen blending in the natural gas network and fueling components for heavy-duty vehicles.

Details of the call are provided [here](#).

Although not a direct grant opportunity, Electrify America is asking for input to assist in drafting their Cycle 3 National and California ZEV Investment Plans for the next 30-month investment period, which applies for the time period of January 2022 through June of 2024. They are specifically asking for input for FCEV elements in the plans. These inputs can result in funding of projects. Inputs need to be provided by latest July 31st. We are looking at providing input as CHN. We welcome any ideas. Please look at details [here](#).

## News

The *HydrogenNowCast* is devoted to encouraging the deployment of Fuel Cell EV's, hydrogen fueling, and hydrogen infrastructure



throughout the world.

We have released 4 episodes of the *HydrogenNowCast* and the show has achieved 200 downloads to date.

The HydrogenNowCast is available on:

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



This month, the Colorado Hydrogen Network website received an additional face-lift with the addition of a slide show of photos on the home page. Check it out [here](#). Pictures are courtesy of NREL.

[DoE Announces New Lab Consortia to Advance Hydrogen and Fuel Cell R&D.](#) The DoE announced the intention to invest up to \$100 million over five years in two new DOE National Laboratory-led consortia. Areas of emphasis include large-scale, affordable electrolyzers and accelerating the development of fuel cells for heavy-duty vehicle applications.

Fuel cell manufacturer Ballard Power Systems' stock reached a [17 year high](#) on July 3 after announcing a \$7.7 million order for fuel cells from China.

Fuel cell manufacturer [Plug Power's stock price](#) hit a 52-week high on June 24th as the company announced its acquisitions of United Hydrogen and Giner ELX. United Hydrogen is the largest independent producer in the merchant hydrogen market.

Plug Power Partners with [Lightning Systems](#) (Loveland, CO) to Build [Zero-Emission 'Middle-Mile' Delivery Solution](#). This collaboration enables both companies to offer the world's first electric, fuel cell-powered Class 6 trucks (up to 12.5 tons) capable of supporting middle-mile delivery logistics between warehouses and distribution centers.

[South Korea to build "hydrogen cities" with hydrogen as primary energy source.](#) The South Korean government plans to build at least two "hydrogen cities" where hydrogen is the main fuel source for heating and cooling, transportation, and electricity. The government also aims to increase the number of hydrogen vehicles in the country to 850,000 and build an effective network of hydrogen fueling stations by 2030.

[The Indian Government finalizes draft of regulations for hydrogen-powered cars.](#) The automotive industry moved a step closer to the commercial launch of hydrogen-powered vehicles in India with the government-instituted Automotive Industry Standards Committee (AISC) submitting a final draft on its regulations.

The country's second-largest car company Hyundai, plans to launch Nexo, a Sport Utility Vehicle (SUV) powered by hydrogen, in India next year.

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