

# Colorado Hydrogen Network



An initiative of



Colorado Cleantech Industries Association

## Newsletter - September 2020

### Upcoming Events & Announcements

#### September Monthly Meeting

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



Tuesday, September 15th

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

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

#### The Asia-Pacific Hydrogen Summit in November

The First Annual [Asia-Pacific Hydrogen Summit](#) is coming to bustling Singapore to deliver another conference full of cutting edge insight and collaboration building tailored to the region.

Held in partnership with CHN reciprocal member, the [Asia-Pacific Hydrogen Association](#), the Summit will gather high level leaders from Government, Industry, Research, and more to analyze how to tackle the key challenges in kick-starting the Asia-Pacific Hydrogen economy.

The Asia-Pacific Hydrogen Summit is presented by the [Sustainable Energy Council](#), London, and follows on the of the [World Hydrogen Summit Series](#) launch in Amsterdam in March 2020.

Further information [here](#).



24 - 25 NOVEMBER 2020 | SINGAPORE



#### Webinars

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

**October 29th:** The Role of Electric Utilities & Hydrogen Generation in the Energy Transition

10:00 - 11:00 a.m. MDT.

Register [here](#)

Recordings from the previous two webinars are available here: [Webinar #1](#), [Webinar #2](#)



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

## New Members



[Danfoss](#) is a multinational company founded in 1933 and based in Nordborg Denmark. Danfoss has more than 28,000 employees globally. Products range from refrigeration, air conditioning, electric motor controls, building heating and solutions for renewable energy such as solar power and heat pumps.

## Activities and Outreach

### Networking

**Hydrogen Associations Working Group (HAWG)** – CHN asked to form this Working Group to unify communication and action between western states hydrogen advocacy organizations shown below:

The HAWG is spearheaded by the Green Hydrogen Coalition and the Colorado Hydrogen Network. Our first initiative is to influence the Western Governors' Association [EV Roadmap](#). We have drafted a letter, signed by all the organizations, asking the WGA to include Fuel Cell EV's and hydrogen fueling in the roadmap. We are offering to help with the roadmap. We are scheduling a call with the WGA to discuss HAWG support of the roadmap. See: <https://westgov.org/initiatives/>



**DENVER**  
THE MILE HIGH CITY





**California State Los Angeles, Hydrogen Fueling** - In anticipation of an eventual hydrogen fuel station at Colorado State University in Fort Collins, CHN reached out to Cal State LA to open a dialog between CSU Energy Institute and Cal State LA. In 2014, the Cal State LA Hydrogen Research and Fueling Facility became the first in the world to sell hydrogen fuel directly to retail customers. The station produces hydrogen onsite via electrolysis.

See: <https://www.calstatela.edu/ecst/h2station>

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**Innio** - CHN connected with the Senior Business Development Manager of INNIO Jenbacher North America. Jenbacher builds gas engines in the power range of 200 kW to 10 MW with fuel flexibility to run either on natural gas or a number of other gases including hydrogen. CHN and Innio will look for ways to collaborate in the future.

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**North Dakota Hydrogen** – CHN was contacted by a member of the North Dakota agriculture research community. Farmers in North Dakota (NODAK) want to become energy producers by using their land to capture wind and solar and see hydrogen and ammonia as a key components. We are exploring the development of a hydrogen association in NODAK-SODAK-Minnesota region to coordinate the development of the renewable energy supply chain in the Midwest. CHN is connecting NODAK with Starfire Energy and Eneus Energy.

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**Telecon with Nikola** - Nikola is considering hydrogen fueling in Colorado. They contacted the Colo Energy Office, and the CEO then linked Nikola with CHN. CHN held a telecon with the Nikola Senior Manager of External Affairs & Public Policy, and their Global Head of Power Solutions. CHN presented specifics of our plan to launch 5 hydrogen fuel stations and we discussed the common need to bring together commercial hydrogen users with fuel station deployment to realize early return on investment for fueling infrastructure. CHN has agreed to facilitate discussion with Nikola and Colorado stakeholders as we all work to build-out hydrogen fueling.

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## Projects & Initiatives

**Colorado Hydrogen Roadmap** – CHN contributed to the roadmap *Request for Quote* (RFQ) document. The RFQ will be sent to contractors interested in creating the Colorado Hydrogen Roadmap. The RFQ provides scope and guidance on the information to be included in the roadmap.

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### The HydrogenNowCast



[www.colorado-hydrogen.org](http://www.colorado-hydrogen.org)

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

CHN has released 8 episodes of the *HydrogenNowCast* and the show has achieved 820 downloads to date.

In the latest episode, we discuss electrochemical hydrogen compressors in an interview with Alexis Dubois of [HyET Hydrogen](#).

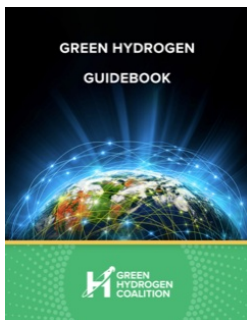
The HydrogenNowCast is available on:

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

Coming soon to Amazon Music / Audible.

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# News



**Green Hydrogen Guidebook** - One of CHN's reciprocal members, the Green Hydrogen Coalition has published a [Green Hydrogen Guidebook](#). This guidebook is designed to increase understanding of green hydrogen production and distribution, safety, applications and use cases, value proposition, barriers and challenges, and policy and regulatory drivers and recommendations. Most importantly, the guide offers a vision of a green hydrogen future and catalogues inspiring global examples of large-scale green hydrogen projects already underway. Download the guidebook [here](#).

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**Colorado Clean Truck Strategy Development** – There will be a series of joint online public meetings as a follow-up to Colorado signing a multi-state Memorandum of Understanding to work collaboratively to advance the market for electric trucks and buses. Click [here](#) for more information.

Public Meeting #2, September 16, 2020, 6:30-8:30 PM MDT

Public Meeting #3, October 1, 2020, 2:00-4:00 PM MDT

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[Lightning Systems Lowers Prices of Electric Powertrains](#) - Commercial electric vehicle manufacturer Lightning Systems (Loveland, CO) is lowering the prices of its 2021 battery and fuel cell electric vehicles by 10% to 50% for Class 3 to Class 8 vehicles. They are realizing economies of scale, moving from producing tens of vehicles per month to hundreds of vehicles per month.

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[Europe & China Battle for Global Supremacy on Electrolyzer Manufacturing](#) - While China currently produces the cheapest electrolyzers in the world, Europe leads on innovative technologies which are better suited to produce green hydrogen seen by many as a silver bullet to decarbonize the energy system.

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[Australia Looks To Take The Lead In The Hydrogen Boom](#) - Australia is single-handedly developing a monster 15,000-megawatt project that will generate hydrogen for export, potentially making Australia the 'Saudi Arabia of renewables'.

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