

Hydrogen Online Conference - October 8, 2020

Program

October 8 - 06:00 CET, 12:00 CST | October 7 - 21:00 PDT

Realising the Australian hydrogen opportunity

06:00 – 06:40 CET

Speaker: Speaker: James Hetherington | Australian Government, Department of Industry, Innovation and Science, National Hydrogen Strategy Team, Director

This presentation will discuss recent Australian developments and the steps Australia is taking to become a major global player in hydrogen.

October 8 - 06:45 CET, 12:45 CST | October 7 - 21:45 PDT

NEOM HELIOS – Driving Hydrogen Economy into Reality

06:45- 07:25 CET

Speaker: Roland Kaepfner | NEOM, Director of Hydrogen Development

October 8 - 07:30 CET, 13:30 CST | October 7 - 22:30 PDT

From today to tomorrow: A potential roadmap heavy truck fueling.

07:30 – 08:10 CET

Speaker: Dr. Werner Ponikvar | Linde Hydrogen FuelTech GmbH, Managing Director

The challenge of heavy-duty hydrogen fueling technologies and a potential roadmap to master it from today to tomorrow

October 8 - 08:15 CET, 14:15 CST | October 7 - 23:15 PDT

Japan's policy and activity toward realizing hydrogen-based society

08:15 – 08:55 CET

Speaker: Eiji Ohira | New Energy and Industrial Technology Development Organization (NEDO), Director

The presentation shows Japan's challenge to realize hydrogen-based society including up to dated policy, market information, and RD&D activities. To tackle several social agendas such as energy security, climate change, etc. Government of Japan has been strongly promoting activity toward realizing hydrogen-based society. On December 26, 2017, the Japanese Government concluded the "Basic Hydrogen Strategy" which shows future visions toward 2050 and an action plan by 2030. To enhancing utilization of hydrogen technology, the New Energy and Industrial Technology Development Organization (NEDO) has been conducting comprehensive technology development and demonstrative research programs. The most recent result from NEDO's program will be introduced.

October 8 - 08:55 CET, 14:55 CST | October 7 - 23:55 PDT

MEET THE EXHIBITORS

08:55- 09:15 CET

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October 8 - 09:15 CET, 15:15 CST, 00:15 PDT

The key role of composite storage systems in hydrogen distribution

09:15 – 09:55 CET

Speaker: Hartmut Fehrenbach | Hexagon Purus, Vice President Hydrogen Distribution

An outlook on a possible cost roadmap of composite high-pressure distribution systems from the market leader's perspective.

October 8 - 10:00 CET, 16:00 CST, 01:00 PDT

The start of a new cycle...

10:00 – 10:40 CET

Speaker: Pierre-Etienne Franc | Air Liquide, VP | Hydrogen Council, Co-Secretary

October 8 - 10:45 CET, 16:45 CST, 01:45 PDT

The role of hydrogen in a low carbon future

10:45 – 11:25 CET

Speaker: Enno Harks | BP Europe SE, Deputy Director, External Affairs

As bp we are setting out a new strategy that will see us pivot from being an international oil company focused on producing resources to an integrated energy company focused on delivering solutions for customers. We have a clear vision for hydrogen and our commitment to it as an integral part of the transition to a low carbon future.

October 8 - 11:30 CET, 17:30 CST, 02:30 PDT

Towards Zero Emission – Hydrogen in Germany

11:30 – 12:10 CET

Speaker: Kurt-Christoph von Knobelsdorff | NOW GmbH, CEO

Outlook on how hydrogen & fuel cell technologies will be built up in Germany focusing on the national hydrogen strategy and funding activities of the Federal Government.

October 8 - 12:10 CET, 18:10 CST, 03:10 PDT

MEET THE EXHIBITORS

12:10- 13:00 CET

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October 8 - 13:00 CET, 19:00 CST, 04:00 PDT

Modularization Concepts for Fuel Cell Engines

13:00 – 13:40 CET

Speaker: Prof. Dr. Christian Mohrdieck | Daimler Truck Fuel Cell, CEO

A modular fuel cell approach is presented to react fast and flexibly on new demands, to reduce cost and to achieve synergies in different fuel cell engines and the multiple use of fuel cell engines in form of e.g. twin engines for heavy duty applications as in the Mercedes-Benz GenH2 fuel cell concept truck

October 8 - 13:45 CET, 19:45 CST, 04:45 PDT

Does it matter who wins the first leg of the hydrogen marathon?

13:45 – 14:25 CET

Speaker: David Hart | E4tech, Director

Hydrogen is happening. But which production routes, storage techniques and companies will dominate? It will always be a mix but positioning now could change a minor role to a big win.

October 8 - 14:30 CET, 20:30 CST, 05:30 PDT

FCH-JU a successful European public private partnership on hydrogen

14:30 – 15:10 CET

Speaker: Bart Biebuyck | Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

October 8 - 15:15 CET, 21:15 CST, 06:15 PDT

Hydrogen production and fueling for BIG applications

15:15 – 15:55 CET

Speaker: Jon André Løkke | Nel Hydrogen, CEO

One of the advantages of both electrolyzers and hydrogen fueling stations is that they are highly modular. Economies of scale do however play an important role, and in Nel we are now scaling up both the technology solutions as well as our manufacturing capacity to meet the demand of the market, as well as taking an active part in defining the fueling standards for the new and big applications.

October 8 - 15:55 CET, 21:55 CST, 06:55 PDT

MEET THE EXHIBITORS

15:55 – 16:15 CET

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October 8 - 16:15 CET, 22:15 CST, 07:15 PDT

The European Hydrogen Strategy – How to implement?

16:15 – 16:55 CET

Speaker: Jorgo Chatzimarkakis | Hydrogen Europe, Secretary General

The European hydrogen strategy was launched 8 July and requests to deliver already in 2024 one million ton of renewably produced hydrogen. Commission President Ursula von der Leyen said in her State of the Union address the way how to put this into practice: “I want NextGenerationEU to create new European Hydrogen Valleys to modernise our industries, power our vehicles and bring new life to rural areas.” The European Clean Hydrogen Alliance (ECH2A) is the instrument to engineer projects and to take decisions even before a legal basis allows a framework of clear expectation.

October 8 - 17:00 CET, 23:00 CST, 08:00 PDT

Hydrogen – Between Fundamental Research and the Promise for the Defossilization of the Global Energy System

17:00 – 17:40 CET

Speaker: Prof. Dr. Christopher Hebling | Fraunhofer ISE, Director Division Hydrogen Technologies

October 8 - 17:45 CET, 23:45 CST, 08:45 PDT

Large-scale electrolysis – precondition for the global decarbonization

17:45 – 18:25 CET

Speaker: Prof. Dr. Armin Schnettler | Siemens Energy, EVP New Energy Business

To drive decarbonization in all sectors, it is essential to cover the whole hydrogen value chain: from planning and simulation to integration and operation through standardized large scale and industrial grade electrolyzer systems in hydrogen plants. Together with partners Siemens Energy offers exactly what is needed to implement the hydrogen economy.

October 8 - 18:30 CET | October 9 - 00:30 CST | October 8 - 09:30 PDT

Tbc.

18:30 – 19:10 CET

Speaker: Max Holthausen | Holthausen B.V., Inventor of the “Hesla”

October 8 - 19:12 CET | October 9 - 01:12 CST | October 8 - 10:12 PDT

German Energy Agency | Exclusive study preview: Green Hydrogen Products & Future Global Markets

19:12 – 19:27 CET

Speaker: Prof. Dr. Christian Breyer | LUT University, Global Alliance Powerfuels partner

The results of the first global modeling study including hydrogen and derived products (powerfuels) in a fully renewable global energy system in 2050 will be presented. This is the first exclusive preview on a global stage of this joint study developed by LUT university and commissioned by the Global Alliance Powerfuels (an initiative of the German Energy Agency).

The study, to be published on October 28 2020, quantifies the production volumes, costs, and trade volumes of cost-optimized powerfuels.

October 8 - 19:30 CET | October 9 - 01:30 CST | October 8 - 10:30 PDT

U.S. Department of Energy Hydrogen and Fuel Cell Perspectives

19:30 – 20:10 CET

Speaker: Sunita Satyapal | U.S. Department of Energy, Director

Hydrogen and fuel cells are emerging, versatile examples within a portfolio of advanced and sustainable energy options. Dr. Sunita Satyapal will provide an overview of hydrogen and fuel cell research, development and demonstration activities led by the DOE's Energy Efficiency and Renewable Energy's Office (EERE), including the H2@Scale initiative. H2@Scale envisions affordable hydrogen production, storage, distribution and use across multiple applications. The presentation will cover new and emerging markets such as data centers, ports, steel manufacturing and medium and heavy duty transportation, where the integration of hydrogen technologies can add value on economic, environmental and energy resilience fronts.

October 8 - 20:15 CET | October 9 - 02:15 CST | October 8 - 11:15 PDT

California's Hydrogen and Fuel Cell Market: From Initial Launch to Market Expansion

20:15 – 20:55 CET

Speaker: Bill Elrick | California Fuel Cell Partnership, Executive Director

Building upon the initial light duty FCEV market launch, stakeholders are now building upon that success to expand medium and heavy duty FCEV deployments, establish a sustainable marketplace based on 200 and then 1000 hydrogen stations, integrate hydrogen as an integral part of a 100% renewable energy system, and expand activities to other states and regions across North America.

October 8 - 21:00 CET | October 9 - 03:00 CST | October 8 - 12:00 PDT

The Hydrogen Economy: Powering our Future

21:00 – 21:40 CET

Speaker: Sanjay Shrestha | Plug Power Inc., Chief Strategy Officer

Gone are the days of “talking” and here are days of “doing.” This presentation will focus on the tremendous actions that have built the hydrogen economy and the steps that still need to be taken. Sanjay Shrestha will discuss Plug Power’s growth plan in greater detail as he shares his projections on the hydrogen economy from a variety of perspectives. In addition, Sanjay will discuss the evolution of the global green hydrogen sector and explore the uses of hydrogen energy to power a broad range of applications in high growth markets like supply chain and logistics, on-road electric vehicles, and stationary power.

October 8 - 21:45 CET | October 9 - 03:45 CST | October 8 - 12:45 PDT

Taking the Truck out of the Carbon Equation: Deep Dive into Alpha Fuel Cell Truck Prototype Nikola Two & More

21:45 – 22:25 CET

Speaker: Jesse Schneider | Nikola Motor Company, EVP Hydrogen & Fuel Cell Technology

Nikola Motor along with large Tier 1 suppliers built the Nikola Two Alpha FCET (Fuel Cell Electric Truck) Prototype for testing and demonstration in 2019. The Nikola Two FCET was also test driven with extreme conditions for the fuel cell hybrid in Arizona as well as the first Beer Delivery for Anheuser Busch on public roads. Nikola Motor also is working with NEL to develop heavy duty, hydrogen fueling stations and partnered with a number of key companies towards developing the next generation standard fueling hardware.

October 8 - 22:25 CET | October 9 - 04:25 CST | October 8 - 13:25 PDT

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22:25 – 22:45 CET

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October 8 - 22:45 CET | October 9 - 04:45 CST | October 8 - 13:45 PDT

How to reduce friction points to fuel cell technology adoption for heavy duty mobility

22:45 – 23:25 CET

Speaker: Randy MacEwen | Ballard Power Systems, President & CEO

His presentation will cover key frictions points such as price and TCO, hydrogen fuel, vehicle integration for large scale commercial adoption of fuel cell mobility. He will provide insights on how our industry should address those friction points and what Ballard is doing about it.

October 8 - 23:30 CET | October 9 - 05:30 CST | October 8 - 14:30 PDT

Fuel Cell Electric Everything

23:30 – 00:10 CET

Speaker: Jackie Birdsall | Toyota North America, Senior Engineer

Toyota's vision for the fuel cell electric future as part of our overall goal to reduce CO2 emissions and drive all electric.

October 9 - 00:15 CET | October 9 - 06:15 CST | October 8 - 15:15 PDT

Celebrating Hydrogen's Present and Future in the U.S.

00:15 – 00:55 CET

Speaker: Morry Markowitz | Fuel Cell and Hydrogen Energy Association, President

Update on U.S. hydrogen economy and policy.

October 9 - 01:00 CET | October 9 - 07:00 CST | October 8 - 16:00 PDT

Hydrogen and Fuel Cells: Moving from Vision to Mission

01:00 – 01:40 CET

Speaker: Ronald Grasman | Hyundai Motor Group, Vice President Global Fuel Cell Cooperation, Fuel Cell Center

Hyundai's presentation focuses on the necessity to transition from research and demonstration to a real Hydrogen Economy and the role the company intends to play: With the FCEV Nexo, the ELEC CITY fuel cell bus and the heavy duty XCient Fuel Cell Truck as well as several non-automotive applications Hyundai has successfully shown that this necessary transition is possible today.

October 9 - 01:40 CET | October 9 - 07:40 CST | October 8 - 16:40 PDT

MEET THE EXHIBITORS

01:40 – 02:00 CET

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October 9 - 02:00 CET | October 9 - 08:00 CST | October 8 - 17:00 PDT

Accelerating the Energy Transition through Hydrogen Mobility

02:00 – 02:40 CET

Speaker: Craig M. Knight | CEO of HYZON Motors Inc, CEO of Horizon Fuel Cell Group

Craig will talk about the enablers of a wholesale shift from diesel based commercial mobility to hydrogen fuel cell mobility, and the applications that offer the most compelling economics the soonest.

October 9 - 02:45 CET | October 9 - 08:45 CST | October 8 - 17:45 PDT

The start of a golden decade toward commercialising fuel cell products.

02:45- 03: 25 CET

Speaker: Audrey Ma | Re-Fire Technology Co., Ltd., VP Marketing and BD

Great efforts from across the industry are required to accelerate toward the Hydrogen Economy, here is how REFIRE plays a part to contribute to our common goal.

October 9 - 03:30 CET | October 9 - 09:30 CST | October 8 - 18:30 PDT

Advanced SOFC Technology as the solution for commercial vehicles

03:30 – 04:10 CET

Speaker: Dr. Sascha Kühn | kraftwerk Inc., CEO

Shifting the automotive industry towards hydrogen, there needs to be a technology solution for commercial vehicles. This presentation introduces the aSOFC power train for FCEV which will come to market within the next 5 years. A current aSOFC starts in 10 seconds by 10,000 cycles. Our powertrain advantages are a simple system concept, a really high overall efficiency and a solution for low cost production.

October 9 - 04:15 CET | October 9 - 10:15 CST | October 8 - 19:15 PDT

Hydrogen's Societal Value": key for the Hydrogen Communication

04:15- 04:55 CET

Speaker: Katsuhiko Hirose | PhD Kyushu University

I am happy to see the re-rise of hydrogen since spending the later life for hydrogen advocacy.

Rising attention of hydrogen is higher and higher from industry and governments, experiencing the rise and fall (and re-rise) of hydrogen in the past and now, it is a good time to talk about the value of hydrogen for the future. De-canonization is no longer the expense for the environment it is the investment to construct the future sustainable world by means of economy and energy thus life. Biggest skepticism for hydrogen is low efficiency from renewable (electrons to hydrogen and back to electrons process) but real value of hydrogen is not just thermal value, more important point is societal value. I will propose how we evaluate the societal value of hydrogen and how we should talk to the people to convince the hydrogen's role in the future. Hoping to help the audience to think deeper about the role of hydrogen.

October 9 - 05:00 CET | October 9 - 11:00 CST | October 8 - 20:00 PDT

The role of Norway in the hydrogen sphere

05:00 – 05:40 CET

Speaker: Prof. Dr. Bruno G. Pollet | NTNU Team Hydrogen, Leader & IAHE – Green Hydrogen Division, President

The Norwegian hydrogen strategy, published in June 2020 [1], clearly highlights great opportunities for the Norwegian industry in this growing and profitable market as well as the country's potential in the domestic and export markets with value creation along the entire "hydrogen value chain."