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VIRTUAL
EVENT

HYDROGEN INDUSTRIAL SERIES

NORTH AMERICA

14 July 2021

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Organised by:
WISDOM



Hydrogen has been talked about for decades, but only recently things have appeared to be accelerating, as investments and government support are growing, and the hydrogen technology is ready to further scale-up. Hydrogen will play a crucial role in meeting the net zero target by the year 2050, as it could help decarbonization efforts in a number of sectors, particularly important in sectors that are hard to electrify and where greenhouse gas emissions are difficult to abate. However, a number of regulatory issues will need to be addressed before hydrogen can play a larger role in the domestic industries.

Hydrogen Industrial Series 2021 - North America will delve deep to uncover the potential for hydrogen across North America. On 14 July 2021 we will gather the key industry stakeholders in the entire hydrogen and fuel cells industry value chain, to discuss the role of hydrogen in the energy transition, to hear the latest advancements in its production, distribution and storage, and at the same time showcase the best practices and models to recognize and seize the opportunities to generate new revenue and stay ahead of the competition.

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KEY TOPICS

- Going Green - Utilizing Green Hydrogen to Achieve Net-Zero Emissions
- Prospects for building a hydrogen energy infrastructure
- Latest Developments in Hydrogen Storage Systems and Technology
- Hydrogen Safety Concerns: Codes, Standards and Considerations
- Hydrogen Revolutionizing the Mobility Sector
- Hydrogen Fuel Cells – Powering the Road and Railway Passenger Transport
- The Role of Hydrogen in Decarbonizing Maritime & Port Operations

WHO WILL ATTEND

- Hydrogen Producers and Distributors
- Oil & Gas Companies
- Energy and Heat Suppliers
- Hydrogen Storage and Transportation Companies
- Fuel Cell Manufacturers
- Electrolysis technology developers
- Automotive and Transport OEMs
- Government Officials And Regulators
- Automotive and Transport OEMs
- Technology Providers and Consultants
- Financial Stakeholders and Investors

BENEFITS OF JOINING

- Hear from engaging speakers coming from the market leading companies: hydrogen producers and suppliers; transport and storage companies; fuel cells manufacturers; technology providers, government representatives and industry end-users sharing their best-practice examples and successful case studies
- Take a look at the state of the hydrogen market today and get the latest updates on new hydrogen projects in the U.S. and Canada
- Learn how to cut costs in production, storage and transport and examine technologies that enable large scale deployment
- Uncover new innovative products and technology and explore new market opportunities
- Gain a competitive advantage in a rapidly changing business environment
- A unique platform to share know-how among industry peers and grow your professional network

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MEDIA PARTNERS



HYDROGEN SPEAKERS



Mark Kirby
President and CEO
Canadian Hydrogen Fuel
Cell Association



Zac Lowe
Director
Southern Company Gas



Lauren Skiver
CEO and General Manager
SunLine Transit Agency



JR Hammond
Executive Director
Canadian Advanced Air
Mobility Consortium
(CAAM)



Alan Marder
Vice President - Sales
Hyzon Motors



Michelle Detwiler
Executive Director
Renewable Hydrogen
Alliance



Brydon Owen
Director, Electrical Engineering,
New Flyer and MCI



Shinichi Hirano
Chief Engineer - Fuel Cell
Hyzon Motors



Kristine Wiley
Executive Director, Hydrogen
Technology Center
Gas Technology Institute
GTI



Alberto Escofet
Country Manager
Enagas



Andrew Martinez
Hydrogen Program Expert
California Air Resources
Board



Dave Edwards
Director and Advocate for
Hydrogen Energy
Air Liquide



Bill Zobel
Executive Director
California Hydrogen
Business Council
(CHBC)



Emanuel Wagner
Deputy Director
California Hydrogen
Business Council
(CHBC)



Cory Shumaker
Development Specialist
California Hydrogen
Business Council
(CHBC)



AGENDA

Wednesday 14 July 2021

Pacific Standard Time (PST)

08:50 Host's Opening Remarks

09:00 SESSION 1

THE EMERGING HYDROGEN ECONOMY – NORTH AMERICAN MARKET OVERVIEW

The emerging hydrogen economy has great potential to enhance the North American energy security and vastly reduce the emission of greenhouse gases. The growing international development of hydrogen infrastructure, trade, and technology is creating unique partnerships across nations and continents. What has changed since the 2016th Paris agreement in the North American hydrogen sector?

- US Hydrogen Road Map: California and Mexico leading the way
- Canada, the first North American country to develop a national hydrogen strategy

Bill Zobel, Executive Director, California Hydrogen Business Council

Mark Kirby, President and CEO, Canadian Hydrogen Fuel Cell Association

Alberto Escofet, Country Manager, Enagás

10:00 SESSION 2

EXCLUSIVE CXO ROUNDTABLE :

SCALING UP HYDROGEN PRODUCTION AND MEETING THE GROWING DEMAND: GLOBAL TRENDS, CHALLENGES AND BUSINESS OPPORTUNITIES

Today, the production of hydrogen is responsible for 830 million tonnes of CO₂ emissions per year. Reducing emissions from existing hydrogen production is a challenge but also represents an opportunity to increase the scale of clean hydrogen worldwide.

- Economic aspects on hydrogen production: is hydrogen truly cost competitive fuel?
- Using gas networks to scale up hydrogen
- Growing opportunities for international hydrogen production and trade on a global scale
- Prospects for building a hydrogen energy infrastructure

Michelle Detwiler, Executive Director, Renewable Hydrogen Alliance

Zac Lowe, Director, Southern Company Gas

Kristine Wiley, Director of the GTI Hydrogen Technology Center, Gas Technology Institute GTI

Andrew Martinez, Hydrogen Program Expert, California Air Resources Board

Panel Moderator: Emanuel Wagner, Deputy Director, California Hydrogen Business Council

11:00 Morning Networking Break

11:30 HOW IS HYDROGEN REVOLUTIONIZING THE MOBILITY SECTOR?

Shinichi Hirano, Chief Engineer, Fuel Cell & Alan Marder, Vice President, Sales Hyzon Motors (joint presentation)

12:00 SESSION 3**LATEST DEVELOPMENTS IN HYDROGEN STORAGE AND SAFETY SYSTEMS AND TECHNOLOGY**

The successful adoption and commercialization of hydrogen relies on strategically integrated infrastructure and storage solutions. Hydrogen storage technologies are playing a critical role in the so-called hydrogen economy and the advancement of hydrogen and fuel cell technologies.

- Hydrogen storage – a big technological barrier to the development of hydrogen fuel cell cars
- Large-scale storage of hydrogen: Cost benefits of optimizing hydrogen storage
- Hydrogen safety concerns: codes, standards and regulations

Dave Edwards, Director and Advocate for Hydrogen Energy, Air Liquide

12:30 THE ROLE OF HYDROGEN IN DECARBONIZING MARITIME & PORT OPERATIONS

Sea ports are users of heavy diesel equipment and are under pressure to reduce emissions that lead to poor air quality and contribute to global warming. Marine applications also show strong potential for hydrogen adoption in both the U.S. and Canada.

- Hydrogen and fuel cells in maritime and port applications
- Ports paving the way for the hydrogen sector

Cory Shumaker, Development Specialist, California Hydrogen Business Council

13:00 LUNCH BREAK**13:30 SESSION 4****HOW IS HYDROGEN REVOLUTIONIZING THE MOBILITY SECTOR?**

As the transport industry seeks solutions to decarbonize, fuel cell electric vehicles are emerging as a complementary technology to battery electric vehicles. Hydrogen poses opportunities, but at the same time infrastructural, logistical and safety challenges.

- Challenges of Scaling Hydrogen Infrastructure
- 3 years after the Metrolinx Hydrail study, where are we at?
- Hydrogen fuel cell buses - When do the benefits outweigh the costs?

Lauren Skiver, CEO and General Manager, SunLine Transit Agency

Brydon Owen, Director, Electrical Engineering, New Flyer and MCI

JR Hammond, Executive Director, Canadian Advanced Air Mobility Consortium (CAAM)

14:30 Host's Closing Remarks and End of Conference

WISDOM

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