

HYDROGEN AND FUEL CELLS ENERGY SUMMIT

24th & 25th January 2018
Brussels, Belgium

Maximizing commercial opportunities and partnerships in the renewable hydrogen & fuel cells industry

KEY TOPICS:

- Overview of the actual hydrogen and fuel cells market
- Latest technologies involved in the renewable sources
- Policy and regulations
- Power-to-gas solutions
- Decarbonisation of the energy sector
- Hydrogen storage improvements
- Security aspects in hydrogen production, storage and distribution
- Monetisation advice and partnership
- Hydrogen mobility applications
- Integration and standards

EXCLUSIVE SITE VISIT:

HYDROGENICS
SHIFT POWER | ENERGIZE YOUR WORLD

A unique opportunity to visit an electrolyser manufacturing plant and a hydrogen refuelling station

KEY SPEAKERS:

FUEL CELLS AND HYDROGEN
JOINT UNDERTAKING (FCH JU)
HYDROGEN EUROPE
HYDROGENICS
ENGIE
ENI
HINICIO

EVENT PARTNERS:



MEDIA PARTNERS:



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Tel: +48 616 46 7047 Email: adam@acieu.net

FOR SPONSORSHIP ENQUIRES PLEASE CONTACT: Krisztina Maria Szabo
Tel: +44 20 3141 0603 Email: kszabo@acieu.net



The Conference

With incredible advances recently in hydrogen it is the best time to explore this booming industry: the latest innovations, the leader investments and the upcoming monetisation opportunities.

ACI's Renewable Hydrogen & Fuel Cells Energy Summit will be taking place in Brussels, on the 24th & 25th January 2018. The two day event will bring together key industry stakeholders from all facets of the hydrogen industry to discuss the required economical and infrastructural innovations for a sustainable future energy carrier.

Confirmed Topics for Discussion:

- Overview of the actual hydrogen and fuel cells market
- The new technologies involved in the renewable sources
- Policy and regulations
- Power-to-gas solutions
- Decarbonisation of the energy sector
- Power-to-gas solution
- Safety aspect with hydrogen
- Monetization advice and partnership
- Hydrogen mobility and storage applications
- Integration and standards

Commercial & Sponsorship Opportunities

With leading companies and organisations from the hydrogen industry attending and speaking at our event, we have the perfect vehicle to provide outstanding exposure to a senior level audience.

There are varying sponsorship packages available, including sponsorship of a cocktail reception on the first evening of the event and sponsorship of a networking lunch.

For further details, please contact: **Krisztina Maria Szabo**

+44 (0)20 3141 0603 / kszabo@acieu.net



Who Will Be Attending?

This conference invites experts and senior executives across the whole Hydrogen and fuel cells industry value chain interested in meeting potential partners, create business opportunities and gaining knowledge on the latest advancements to aid growth in markets.

Representatives from hydrogen producers and suppliers, fuel cell companies, automotive-OEMs, hydrogen storage companies, technology providers, component manufacturers & industrial end-users, financial stakeholders & investors, service providers, investors, government officials & regulators, sustainable mobility technology and other will come to discuss perspectives & market opportunities for the hydrogen and fuel cells market.

Exclusive site visit

During the Pre Conference Day, on the 23rd of January 2018 a limited number of conference delegates will receive a unique opportunity to visit:

HYDROGENICS – Production plant of water electrolyzers and hydrogen refuelling stations



COLRUYT – Hydrogen refuelling station for hydrogen electric cars and hydrogen forklifts with onsite water electrolysis using wind energy

Spaces are limited and subject to approval by Hydrogenics. As the places are allocated on a first-come first-served basis, please confirm your interest when booking your space.

Registration is simple:

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 10 Gough Square, London, EC4A 3DE

DAY 1

Wednesday 24th January 2018

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

09:15 **CONFERENCE PRESENTATION**

The H20C Scenario – Hydrogen Enabling The Transition To A Climate Adapted Global Economy

- Hydrogen at the core of future energy markets and transport fuel
- Developments around the world, in terms of achievements, enabling technologies, new business models, and market tipping points



Kerry-Ann Adamson
CEO
4th Energy Wave

09:45 **CONFERENCE SESSION**

Hydrogen, The Vector To Lead A Green Energy Revolution

Building Innovative Green Hydrogen Systems In An Isolated Territory: A Pilot For Europe (BIG HIT Project)

- Exploiting the full potential of hydrogen: integrated local energy systems
- Demonstrating green hydrogen generation and local distribution for transport, heat and power end-uses
- Exploiting societal & environmental impacts
- Case study replicable to other remote regions & islands



Enrique Troncoso
CEO & Founder
Systeng Consulting

10:15 **Hydrogen, The Vector To Lead A Green Energy Revolution**

- The realistic potential of renewable sources - benefits and applications of hydrogen
- The effect and policies of hydrogen on the climate change
- The essential role of hydrogen in a sustainable energy economy and the reduction of urban pollution
- Demonstrating the results of an efficient and sustainable production



Dan Sadler
Head Of Hydrogen Technologies
Northern Gas Networks Limited

10:45 **MORNING REFRESHMENTS & NETWORKING**

CONFERENCE SESSION

Case study: Updates On The Latest Technology Applications

11:15 **Electrolysis: the race to 100+ MW projects**

- Electrolysis technology update: up scaling trend
- Markets for electrolysis solutions in the energy transition
- Policy context and influence on project profitability



Denis Thomas
EU Regulatory Affairs Renewable Hydrogen
Hydrogenics

HYDROGENICS
SHIFT POWER | ENERGIZE YOUR WORLD

11:45 **Hydrogen & Fuel Cells – Delivering Local Energy Solutions at National Scale**

- Meeting the challenge of integrating increasing levels of renewables in to the energy system
- Adding value at local and national level, supporting delivery of key energy & transport policy objectives
- Creating new industry supply chains, and an effective transition from fossil fuels to sustainable energy sources
- Illustrated by case studies of energy & transport policy and current projects in Scotland



Nigel Holmes
CEO
Scottish Hydrogen And Fuel Cell Association

12:15 **CONFERENCE PRESENTATION**

EU Policy & Regulation: Key Developments in the Hydrogen Industry

- Hydrogen at cross-roads: "it's now or never"
- Legislation developments at EU level impacting Hydrogen and Fuel Cells markets
- Recommendations



Jorgo Chatzimarkakis
Secretary General
Hydrogen Europe

13:00 **NETWORKING LUNCH**

14:00 **CONFERENCE PRESENTATION**

FCH JU Making Hydrogen And Fuel Cells An Everyday Reality



Bart Biebuyck
Executive Director
FCH-JU

14:45

CONFERENCE PRESENTATION

Power-To-Gas: The Decarbonisation Of Energy Systems

- The role of power-to-gas in an integrated gas and electricity system
- Detailed evaluation of the 3 current power-to-gas methods in use
- Opportunities and challenges in the industry taken into considerations the laws and regulations in place



Thierry Lepercq
Executive Vice-president Research,
Technology and Innovation
ENGIE

15:15

AFTERNOON REFRESHMENTS & NETWORKING SESSION

Dedicated time to network and meet industry representatives. Join us to create partnerships and new business opportunities.

15:45

CONFERENCE SESSION

The H2 Factor In The Sustainable Mobility Equation: A View From Eni

- Heuristic approach to the complex problem of decarbonizing transport
- Hydrogen – present scenario and future prospects
- Importance of right phasing the development of hydrogen - Eni experience
- SCT-PO technology and benchmarking with other technologies



Alberto Navarretta
Senior Vice President For Refining &
Marketing And Chemicals Planning
& Control
ENI

16:15

MTSA Technopower Applications And Future Developments

- The relation between MTSA and the hydrogen applications
- Demcopem case – 2 MW Fuel Cell System
- Suitability Fuel Cell Power Plants (FCPPs) for grid support
- Future developments



Rob van der Sluis
Manager Marketing and Sales
MTSA Technopower

16:45

CONFERENCE PRESENTATION

Safety Aspects In Hydrogen Production, Storage And Distribution

- Managing public perception and opinions on hydrogen fuel
- Risk assessments of hydrogen installations under the dangerous substances and explosive atmospheres regulations (DSEAR)
- Maximizing safety by increasing energy density for the different hydrogen applications

17:30

CLOSE OF DAY ONE

DAY 2

Thursday 25th January 2018

08:30

REGISTRATION & COFFEE

09:00

CHAIRMAN'S OPENING REMARKS

09:10

CONFERENCE PRESENTATION

Where Are Early Business Cases For Power To Hydrogen

- Study financed by Fuel Cell Hydrogen Joint Undertaking (part of EC)
- How to capture value from PtH in regions with excess renewables and grid constraints
- Showcase on how stacking revenue streams boost profitability of PtH plants



Wouter Vanhoudt
Director Europe
HINICIO

09:55

CONFERENCE SESSION

The Different Hydrogen Mobility Applications

- The different applications of hydrogen in transportation
- The latest developments and implementations in power to fuel
- Comparing electric vs hydrogen vehicles
- Evaluation of the market response to hydrogen mobility

10:45

Fuel Cell Plug-In Hybrids: Long-Distance Emobility With Batteries And Fuel Cells

- Technology status and future development of automotive fuel cell systems
- BEV and HEV in comparison to FCEV
- Development of a Fuel Cell Plug-In Hybrid at ZBT
- Development of low cost, high volume production technologies and quality control at ZBT



Jörg Karstedt
Coordinator Emobility
ZBT GmbH

11:15 Commercialization Status Of Fuel Cell Heavy Duty Vehicles

- Value proposition for fuel cell heavy duty powertrain
- Commercialization status for transit buses and trucks worldwide
- Current technology status and commercialization targets
- Opportunities and challenges faced by industry



Kristina Fløche Juelsgaard
Director Business Development
Ballard Europe

11:45 MORNING REFRESHMENTS & NETWORKING

12:15 CONFERENCE SESSION

Case Studies: Approach To The Existing Implementations Of The Industry

- Hydrogen fuel cells technologies: examples of integrated demonstrations & pilot plants
- Exploring the variety applications of hydrogen fuel cells to mobility: vehicles, maritime, aviation and more
- The interest of wind & solar hydrogen production as a renewable energy source



Michel Kneller
Project Manager / Deputy Area Manager
ILF Beratende Ingenieure GmbH

12:45 Design approaches to prevent H2 induced crack growth in pressure vessels and the related changes in the ASME PVC Sec VIII, Div 3

- Hydrogen embrittlement effects on high-cycle pressure vessels
- Limitation of current metallurgical approaches to reduce H2 embrittlement
- Design methods to prevent H2 induced crack growth in pressure vessels
- Recent changes to the ASME PVC Section VIII, Div 3 in favor of the design methods



Pooya Mahmoudian
Product Engineer
Haskel International LLC

For speaking opportunities
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13:15 Worthington Industries - Composite Cylinders, Fueling Systems And Bulk Gas Transport

- Light weight composite cylinders and storage systems for automotive and industrial applications
- High capacity bulk gas transport for hydrogen, CNG and other industrial gases. Unique engineered solutions

Radisa Nunic
Commercial Director
Worthington Industries

13:45 NETWORKING LUNCH

14:45 CONFERENCE PRESENTATION

Future Cost And Performance Of Electrolysers: Insights From Expert Interviews

- 10 experts project future cost & performance for alkaline, PEM and solid-oxide electrolysis
- Production scale-up appears to have more impact on cost than increased R&D funding
- Specific innovations in technology, manufacturing and the value-chain are highlighted
- insights could help guide near-term investment, policy and research efforts



Oliver Schmidt
PhD Researcher On Energy Storage
Imperial College London

15:15 CONFERENCE PRESENTATION Investing In Hydrogen Projects

- The approach to the end of the long gap between investment and returns
- The increasing importance of standardisation and integration for commercialisation
- The necessity of public-private collaboration to boost the industry through transparency



John Butt
CEO
Conduit Ventures Limited

15:45 CONFERENCE PRESENTATION Market Requirements For PEM Fuel Cells

- PEM fuel cell technology update
- Main markets for PEM fuel cells: applications, geographies, clients
- Analysis of the latest markets announcements



Mark Kammerer
Business Development Manager Fuel Cells
Hydrogenics
SHIFT POWER | ENERGIZE YOUR WORLD

16:15

CONFERENCE PRESENTATION

New Applications For The Hydrogen- Based Fuel Cells

- Doosan is pioneering that fuel-cell application that uses the excess, by-product hydrogen from industrial facilities (e.g. Refinery, petrochemical factory), including the 50MW flagship project in Korea using the by-product hydrogen from chemical plants. So we would like to deliver what the business model is, and how fuel cell can benefit the clients.

Sathya Motupally
Chief Operating Officer
Doosan Corporation

16:45

CONFERENCE PRESENTATION

The Future Landscape For Hydrogen & Fuel Cell Energy

- Market dynamics and emerging opportunities / challenges that will shape the landscape
- Harnessing complexity: can diverse energy and technology systems, networks and solutions based services be linked to strategic effect
- Meeting innovation requirements from AI, mobility, personal power and distributed generation – what will a ban on new ICE vehicles on the roads in 2040 mean



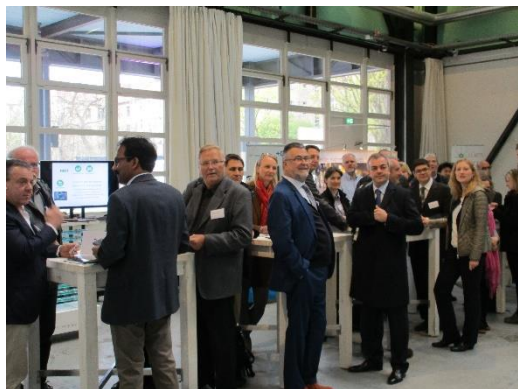
Dennis Hayter
Vice President, Business Development
Intelligent Energy

17:15

CHAIRMAN'S CLOSING REMARKS

17:30

END OF CONFERENCE & AFTERNOON REFRESHMENTS



Networking opportunities

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Registration Is Simple

Conference (Includes Documentation Packet)

24th & 25th January 2018

£1,595.00

(ex.Vat)

Documentation Packet Only

£420.00

Please Note.

Members and customers of all supporting organizations are entitled to a discount off their conference package.

For more information please call +48 616 46 7047

Documentation Packet Available

We are selling the Hydrogen and Fuel Cells Energy Summit papers at just £395 (+£25 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago with offices all around the States, ACI opened its European head office at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, oil & gas, cosmetics, chemicals & media.

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Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.