

Dr. Naveed Akhtar, CEO, Hy-Hybrid Energy Gives Concluding Remarks at the 3rd International Hydrogen Aviation Conference

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GLASGOW, SCOTLAND, UNITED KINGDOM, September 2, 2022 /EINPresswire.com/ -- [Hy-Hybrid Energy](https://www.hy-hybridenergy.com)- UK based leading fuel cell services provider is pleased to host the 3rd series of its annual International Hydrogen Aviation Conference (IHAC 2022) in Glasgow. The event was hosted at DoubleTree By Hilton Strathclyde, Glasgow, Scotland on 1st September 2022.



Dr. Naveed Akhtar giving concluding remarks at IHAC 2022

During IHAC 2022, nineteen excellent presentations were delivered by a mix of the Plenary, Keynote, Guest & General Speakers, discussing the use of hydrogen in aviation. The Morning Plenary Speech was offered by Pierre-Alain Lambert, VP Energy & Propulsion, Safran Tech R&T Center, Morning Keynote Speech was

given by Bart Biebuyck, Executive Director, Clean Hydrogen Partnership [via Video Link], Late Morning Keynote Speech was given by Ron van Manen, Head of Strategic Development, Clean Aviation Joint Undertaking & the Afternoon Keynote Speech was given by Gaël Méheust, President & CEO, CFM International [via Video Link]

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We need to harmonise the key performance indicators (KPIs) & standards for the entire H2 value chain in Aviation.”

Dr. Naveed Akhtar, Founder & CEO, Hy-Hybrid Energy

The Conference was further delivered in the following sessions by the invited guest & general speakers from the reputed organisations, such as:

Session-1: Hydrogen in Aviation-The Industry Perspective: Air Liquide, Aerospace Technology Institute, SKYCORP

Session-2: Hydrogen Powered Aircraft & Infrastructure: ZeroAvia, Aviation H2, H2 Clipper, NACO, Netherlands Airport Consultants

Session-3: Hydrogen & Fuel Cell Technologies in Aviation: HyPoint, DLR, Polytechnic of Turin, Edmonton International Airport

Session-4: Hydrogen Adaptation, Safety & Standards in Aviation: DNV, Gexcon, European Marine Energy Centre (EMEC), Jacobs

In closing remarks, [Dr. Naveed Akhtar](#), Founder & CEO, Hy-Hybrid Energy summarized the following:

1) Hydrogen in Aviation- The Industry Perspective: FC Module scalability (MW scale), efficient LH2 tank development, MT-PEMFC development, GT development (LH2 & SAF powered), regulations & policies, Hydrogen Hubs

2) Hydrogen Powered Aircraft & Infrastructure: Liquid ammonia to turbofan combustion, Hydrogen supply chain & airport infrastructure, hydrogen drivetrains for 10-200+ seats' aircraft, Airships & pipe-within-a-pipe™, Synfuel vs. LH2

3) Hydrogen & Fuel Cell Technologies in Aviation: Two levers approach: technology & sustainable fuel sources, role of air-compression system in fuel cell powered aircraft, living lab concept for airport sustainability, retrofitting a regional aircraft with a fuel cell drivetrain, Turbo air-cooled HT-PEM

4) Hydrogen Adaptation, Safety & Standards in Aviation: H2 safety w.r.t. refuelling operations of an aircraft, H2 refuelling codes & standards, learnings from LNG transport sector to be adapted to LH2 aviation sector, Three H2 supply scenarios (truck, pipeline, on-site production) & their safety implications

3 rd International Hydrogen Aviation Conference (IHAC 2022)	
IHAC 2022 Agenda, 1 st September 2022	
08:15-08:50	Welcome Reception & Registration
08:50-09:00	Welcome message & opening remarks from the Organizer Moderator: Steven McKenna Dr. Naveed Akhtar, CEO, Hy-Hybrid Energy
Hydrogen in Aviation-The Industry Perspective	
09:00-09:20	Plenary Speech: Challenges of Hydrogen Propulsion for Transport Aviation: An Aerospace Engines Manufacturer's Perspective Pierre-Alain Lambert, VP Energy & Propulsion, Safran Tech R&T Center, France
09:20-09:40	Keynote Speech: Developing the building blocks for hydrogen in aviation [VIDEO LINK] Bart Biebucyck, Executive Director, Clean Hydrogen Partnership, Belgium
09:40-10:00	Hydrogen Energy: Ongoing work at Air Liquide to address Hydrogen for Aviation key challenges Dr. Jean-Pierre Planckaert, Product Development Director for Hydrogen Mobility, Air Liquide, France
10:00-10:20	DESTINATION ZERO Norman Green, Senior Technologist, Aerospace Technology Institute, UK
10:20-10:40	A national Hydrogen Aviation Action Perspective – Process and key findings Marek Aliliksoo, CEO, SKYCORP, Estonia
10:40-11:10	Morning Coffee Break
Hydrogen Powered Aircraft & Infrastructure	
11:10-11:30	Keynote Speech: Unlocking the potential of Hydrogen in the journey towards a sustainable climate-neutral aviation system Ron van Manen, Head of Strategic Development, Clean Aviation Joint Undertaking, Belgium
11:30-11:50	Making Zero-Emission Aviation Possible James Mickelick, Vice President Strategy, ZeroAvia, UK
11:50-12:10	Anhydrous Ammonia as a strategy for decarbonising jet aircraft Dr. Helmut Mayer, Director, Aviation H2, Australia
12:10-12:30	Infrastructure: Keys to Unlocking the Hydrogen Economy Worldwide Rinaldo S. Brutoco, Founder & CEO, H2 Clipper, Inc., USA
12:30-12:50	Investigating the impact of the hydrogen supply chain on airport operations & infrastructure Gopal Kandyoor, Sustainable Aviation Consultant, NACO, Netherlands Airport Consultants, The Netherlands
12:50-13:50	Lunch Break
3 rd International Hydrogen Aviation Conference (IHAC 2022)	
IHAC 2022 Agenda, 1 st September 2022	
Hydrogen & Fuel Cell Technologies in Aviation	
13:50-14:10	Keynote Speech: Hydrogen: A Zero Carbon Solution for Aviation [VIDEO LINK] Gael Meheust, President & CEO, CFM International
14:10-14:30	How To Use Hydrogen To Decarbonize Aviation and Air Mobility Umesud Ashtiani, Head of Systems Engineering, HyPoint
14:30-14:50	Sensitivity analysis of the air compression system for a fuel cell-powered regional aircraft Matthias Schröder, Scientist & Florian Becker, Fuel Cell Engineer, German Aerospace Center (DLR)
14:50-15:10	Evaluation of the technical feasibility of H2-based solutions for all-electric aircraft Maria Chiara Massaro, PhD Student & Roberta Biga, Research Assistant, Polytechnic of Turin, Italy
15:10-15:30	Decarbonizing Aviation: Decoupling growth from Emissions Mammen Tharakan, Director, E-Commerce, Cargo & Aviation Real Estate, Edmonton International Airport, Canada
15:30-16:00	Afternoon Coffee Break
Hydrogen Adaptation, Safety & Standards in Aviation	
16:00-16:20	Accelerating Liquid Hydrogen in Aviation: Using the similarities and differences to LNG in the transport sector Dr. Yura Sevenco, Principal Hydrogen Consultant, DNV, UK
16:20-16:40	Can we fly safely on hydrogen? Advanced consequence modelling to understand the hazards Dr. Karina Almeida, UK Technical Lead Hydrogen Safety, Gexcon UK
16:40-17:00	Ensuring Safe Hydrogen Use in an Airfield / Airport Scott Crawford, Senior Systems Engineer, European Marine Energy Centre (EMEC) Ltd, UK
17:00-17:20	Hydrogen Infrastructure at Airports- Requirements to support the future operation of hydrogen powered aircraft Stephen Horrax, Head of Carbon and Energy Consulting, Jacobs, UK
17:20-17:30	Closing remarks from the Organizer Dr. Naveed Akhtar, CEO, Hy-Hybrid Energy
17:30-19:00	Free Time / Networking
19:00-22:00	Evening Reception (GOLD Dinner for Registered Attendees)

"We need to harmonise the key performance indicators (KPIs) & standards for the entire H2 value chain in Aviation", concluded Dr. Naveed Akhtar, Founder & CEO, Hy-Hybrid Energy.

At the end of the conference, there was a networking followed by the Dinner reception gathering opportunity provided to the registered attendees.

The world's first International Hydrogen Aviation Conference (IHAC) forum was setup in March 2020 by Dr. Naveed Akhtar. Dr. Akhtar is a known expert in the field of hydrogen & fuel cells and brings over two decades of experience in the field. He is among one of the experts around the world who has had the opportunity to work on almost all major types of fuel cells, i.e. SOFC, PEMFC, DMFC and AFC. Dr. Akhtar leads major projects in zero-emission mobility, green hydrogen production & fuel cell systems development across the globe.

About Hy-Hybrid Energy Limited:

Working with the leading players in the hydrogen and fuel cell sector, Hy-Hybrid Energy provides services in clean energy technologies. Based in Scotland, UK, the team are specialists in all major fuel cell types, renewable energy systems, hydrogen storage and production. Hy-Hybrid Energy is leading the first of its kind in Hungary, the fuel cell bus development project which also includes battery electric buses development. The company is also proud to be the world's first in setting-up a platform (International Hydrogen Aviation Conference, IHAC) which gathers leading experts from the aviation sector, discussing the role of hydrogen in decarbonisation, annually. Other ongoing projects include green hydrogen production, low and high temperature fuel cell systems development for transport, back-up and off-grid applications.

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