

# 4<sup>th</sup> International Hydrogen Aviation Conference IHAC 2023

7<sup>th</sup> September 2023

Edinburgh International Conference Centre  
Edinburgh, Scotland





4<sup>th</sup> International Hydrogen Aviation Conference (IHAC 2023)

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## Welcome Message

Hy-Hybrid Energy is pleased to invite you to attend the 4<sup>th</sup> annual series of the International Hydrogen Aviation Conference (IHAC 2023) to be held in Edinburgh.

IHAC 2023 will focus on the use of hydrogen in aviation, the associated benefits, and emerging challenges. The event is an opportunity to connect with experts in the industry and an open invitation to all stakeholders to participate in the next wave of hydrogen in aviation.

We are looking forward to meeting you in Edinburgh on 7<sup>th</sup> September 2023!



**DR. NAVEED AKHTAR**  
Hy-Hybrid Energy  
Founder & CEO

*“We’ ll be gathering again to discuss Hydrogen in Aviation at our 4<sup>th</sup> annual series of IHAC, your presence will be highly appreciated!”*



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## IHAC 2023 Agenda, 7<sup>th</sup> September 2023

08:15-08:50	Welcome Reception & Registration
08:50-09:00	Welcome message & opening remarks from the Organizer Dr. Naveed Akhtar, CEO, Hy-Hybrid Energy
<b>Hydrogen in Aviation-The Industry Perspective</b> Session Chair: Pedro Nehter, Airbus Operations GmbH, Germany	
09:00-09:20	<b>Plenary Speech:</b> Accelerating towards Climate Neutral Aviation through disruptive hydrogen-based innovations Ron van Manen, Project Director, Luchtvaart in Transitie, The Netherlands
09:20-09:40	<b>Keynote Speech:</b> Lleida-Alguaire H2 Energy Hub: A new business driver for airports Jordi Candela, Director General, Aeroports de Catalunya, Spain
09:40-10:00	The UK Regional Air Mobility index - Where Hydrogen could really work Darrell Swanson, Director, EA Maven, UK
10:00-10:20	Together we are pioneering aviation again - Accelerating true zero emissions by an ecosystem approach Michel van Ierland, Founder, Conscious Aerospace, The Netherlands
10:20-10:40	Fuel cells: Already airborne Stuart Sharp, Sales Manager & Ingererd Bjeler, Sales Manager, PowerCell Group, Sweden
10:40-11:10	Morning Coffee Break
<b>Hydrogen Infrastructure at Airports</b> Session Chair: Christine Driessen, NACO, Netherlands Airport Consultants, The Netherlands	
11:10-11:30	Liquid hydrogen is taking-off: How to make your airport hydrogen ready? Matthieu Piron, Managing director, HYDROGEN AIRPORT & Sebastien Lichtle, CTO, HYDROGEN AIRPORT, France
11:30-11:50	Understanding Airport Hydrogen Supply Based On Mainline Hydrogen Aircraft Operations Michael Kramer, President, NOVAdev Inc., USA
11:50-12:10	An Insight into Future Fuels Readiness Andrew Caughey, Head of Sustainable Aviation, Atkins & Norton Yeung, Senior Manager, Mace, UK
12:10-12:30	Zero emission flight infrastructure Andrew Chadwick, Technology Innovation Lead, Aviation, Connected Places Catapult, UK
12:30-12:50	Hydrogen aviation and airports - adaptation & impact areas Gopal Kandiyoor, Hydrogen Aviation Lead, NACO, Netherlands Airport Consultants, The Netherlands
12:50-13:50	Lunch Break



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### Hydrogen Powered Aircraft

**Session Chair: Roel van Benthem, Royal Netherlands Aerospace Centre, The Netherlands**

13:50-14:10	Scaling hydrogen-electric propulsion for large aircraft Rudolf Coertze, CTO Hydrogen, ZeroAvia, UK
14:10-14:30	Lightweight solid oxide fuel cells for aviation Pedro Nehter, Fuel Cell Scientist, Airbus Operations GmbH, Germany
14:30-14:50	First electric aircraft designed for hydrogen propulsion Jacques-Alexis Verrecchia, Head of Product, Beyond Aero, France
14:50-15:10	Case Study: Application of FBSE approach in the development of a novel hydrogen fuel cell powered aircraft Jean Machado, Chief Systems & Safety Engineer, Cranfield Aerospace Solutions, UK
15:10-15:30	Pipistrel R&D activities towards the ambition of an innovative hydrogen-powered 19-seat aircraft concept Pedro Garcia Gonzalez, Lead R&D Propulsion Engineer, Pipistrel Vertical Solutions, Slovenia
15:30-16:00	<b>Afternoon Coffee Break</b>

### Hydrogen Storage, Utilization, Standards & Sustainable Aviation Fuels

**Session Chair: Ron van Manen, Luchtvaart in Transitie, The Netherlands**

16:00-16:20	Nordic Electrofuel will make it Green to fly Gunnar Holen, CEO, Nordic Electrofuel, Norway
16:20-16:40	Hydrogen for SAF Vincent de Haes, Sustainable Aviation Consultant, To70Aviation, The Netherlands
16:40-17:00	NLRs contribution to the new standards for hydrogen storage and propulsion in aviation Roel van Benthem, Senior R&D Engineer Energy Management / Thermal Control, NLR - Royal Netherlands Aerospace Centre, The Netherlands
17:00-17:20	Hydrogen use in aviation from a macroeconomic perspective: Motivation, methods and current research directions Tobias Mueller, Research Associate, Leibniz University Hannover, Germany
17:20-17:40	Isothermal sloshing in a horizontal cylinder for a liquid hydrogen powered aircraft Stuart Colville, PhD Researcher, University of Plymouth, UK
17:40-17:50	Closing remarks from the Organizer Dr. Naveed Akhtar, CEO, Hy-Hybrid Energy





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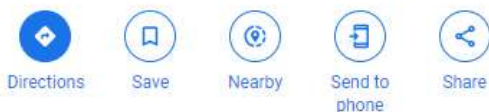
## Venue:

### Edinburgh International Conference Centre

150 Morrison St, Edinburgh  
EH3 8EE  
United Kingdom



Edinburgh International Conference  
Centre  
Building



150 Morrison St, Edinburgh EH3 8EE





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If you would like to support the event as a sponsor or media partner, please email: [info@hy-hybrid.com](mailto:info@hy-hybrid.com)

Organizer



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