



In partnership with:



Clean pathway to a sustainable future

Standards and conformity assessment covering equipment and services to support hydrogen production and use at scale

Concorde Hotel Singapore, Singapore – 29 May 2024



An event organized by the IEC via its IECEx System, together with ISO, UNECE, the Hydrogen Council, IRENA and the Singapore IEC National Committee.

A great networking opportunity

This full day event offers a unique opportunity for industries in the region to learn about latest developments in hydrogen technologies, network within the expert community and form valuable contacts. Attendees will receive information on how to benefit from the services provided by the organizing partners and how to get involved.

World experts share experience and knowledge

Leading experts from across the world will share their insights and expertise on international standardization, equipment manufacturing, inspection, repair and overhaul associated with hydrogen production, transportation and use. The conference will also address the assessment and certification of personnel competence, and tackle issues concerning regional requirements and regulations.

Practical information

- Conference admission: Free of charge lunch provided
- Official IECEx Certificate of Attendance delivered to all attendees

Places are limited! Secure your space now on www.iecex.com

For questions, please contact: info@iecex.com Practical details about the conference can be found on the IECEx website

The international community recognizes hydrogen as a key enabler for advancing efforts aimed at capping global temperature rise to 1.5-degrees. Hydrogen produced from water electrolysis and powered by renewable energy stands out as the most attractive avenue due to its high decarbonization potential. With rising demand however, hydrogen processes are becoming increasingly complex and capital intensive when it comes to generation, processing, and distribution infrastructure. To safeguard this investment and the people working around these installations, compliance with international safety and performance standards is paramount.

IEC (International Electrotechnical Commission) and ISO (International Organization for Standardization) standards

Accommodation

Concorde Hotel Singapore Concorde Shopping Mall 100 Orchard Road Singapore 238840 T +65 6733 8855

For reservations contact nelly.voon@concorde.net and include "IECEx event" in the email subject to access the special rate.

All reservations and incurred costs are the full responsibility of the attendee.



along with the IECEx international certification have been covering hydrogen for decades. More recently, the intensifying focus on hydrogen and demand for its largescale commercial use has prompted IEC and ISO to refine their portfolio of international standards in support of safety and sustainability across the hydrogen value chain. Likewise on the international certification side, IEC via its conformity assessment body IECEx has extended its coverage of Hydrogen equipment and services to target equipment, systems and competence of persons associated with hydrogen production, transportation and use, including hydrogen dispensing equipment.

IECEx is partnering with other international organizations dedicated to promoting an international approach.

Programme

07:45 – 08:30	Registration
08.30 - 08.35	Welcoming remarks
00.00 00.00	Mr Chris Agius, IECEx Executive secretary
08:35 - 08:45	Keynote address
	Mr Jo Cops, IEC President
	Overview of the global hydrogen market and initiatives
	Current market demand and trade flows
00.45 00.00	Renewable and low carbon hydrogen projects
08:45 - 09:30	 Highlights of COP28 regarding global hydrogen initiatives Mo David Nodebourgity, Director (Infraser Course), JEA UCTOR Table 47 U. Cartification Manager.
	INS Daha Nochevnik, <i>Director Hydrogen council</i> + <i>iEA</i> H_2 to <i>P</i> task 47 H_2 certification manager
	Dr Andrej V Tchouvelev, Director Hydrogen Council + Chair ISO/TC 197/SC1 + IFA H.TCP Task 43 H. Safety Manager
	Industry – Challenges and opportunities
	 Manufacturing and supply of equipment used in hydrogen production and use
09:30 – 10:00	 Whole life cycle
	Human factor
	Dr Thorsten Arnhold, IECEx WG19 Convener + Member IEC Board on Conformity Assessment
10:00 - 10:30	Coffee/Tea break
	ISO on-going work on hydrogen
10:30 - 11:00	 ISO/TC 197
	■ ISO/TC 197/SC 1
	Mr Tetsufumi Ikeda, Chair ISO/TC 197 & Dr Andrei V Tchouvelev, Chair ISO/TC 197/SC 1
	Hydrogen activities in the Asian region
11:00 – 11:30	Current work of ISO/TC 197/SC 1 on hydrogen pipelines
	Prof Jinvang Zheng, Director of Zheijang University Hydrogen Energy Institute + Convenor of ISO/TC 197/SC 1 AHG on H. pipelines
	Work of the United Nations UNECE in support of hydrogen
11:30 – 12:00	Mr Branko Milicevic, UNECE & Dr Frank Lienesch UNECE WP6
	Installation and plant requirements according to Ex safety requirements of International Safety Standards
	IEC 60079-14 and inspection requirements of IEC 60079-17
12.00 - 12.40	 Fundamental design considerations
12.00 12.10	 Installation and inspection practices
	 Area classification to IEC 60079-10 series
10.40 14.00	Mr Peter Thurnherr, Thuba Lto, Chair IECEX EXSEC + Member IECEX Executive
12:40 - 14:00	Lunch (lunch will be provided free of charge to facilitate networking opportunities)
	Role and work of IRENA in supporting the hydrogen economy Role and current activities of IRENA
14:00 - 14:30	AFID (Alliance for Industrial decarbonisation)
	Mr Jaidev Dhavle, IRENA Associate Programme Officer, Innovation for the Energy Transition
	IECEx + IECQ System updates in support of hydrogen at scale
14:30 – 15:00	 Equipment, components and systems
	 Services certification
	Personnel certification
	 Process to gain IECEx certificate
	Value in holding an IECEx certificate
	Mr Chris Agius, IECEx Executive Secretary
15.00 15.20	IFC TC 31 Equipment for explosive atmospheres Dr Martin Thodops, Chair IEC TC 31
10.00 - 10.00	IEC TC 105. Eval call technologies Mr Hong Kill on Chair IEC TC 105
15:30 - 16:00	
16:00 - 16:30	Panel discussion
10.00	Open forum, to offer all attendees the opportunity to raise questions concerning any of the topics
16:30 – 17:00	covered
	Close + final remarks
17:00	Mr Chris Agius, IECEx Executive Secretary

Since its inception in 1996, IECEx has established dedicated international certification schemes that provide assurance that equipment and systems are manufactured, serviced and operated according to the highest international standards of safety in the areas of:

- Equipment by the IECEx Certified Equipment Scheme
- Services by the IECEx Certified Service Facilities Scheme (e.g. repair and overhaul)
- Personnel competence by the IECEx Certification of Personnel Competence Scheme (CoPC)

Through more than 100 IECEx-approved Ex Certification Bodies (ExCBs) in 33 countries, the IEC System known as IECEx has

become the world's single best practice for demonstrating compliance with international standards. Its credentials include acceptance by end-users and also the formal endorsement by the United Nations, through the UN Economic Commission for Europe (UNECE), as the recommended model for regulating the safety of equipment and persons working in areas where the potential for an explosive atmosphere may exist.

All IECEx Certificates issued by ExCBs are in one location. If it is not shown on the IECEx website, then the certificate does NOT exist!

