

Presented by  
 **IDC**  
Technologies

# Hydrogen Safety & Hazardous Areas Conference

7<sup>th</sup> & 8<sup>th</sup> August 2024

Perth, Western Australia

*Speaker & Sponsorship Prospectus*

**H<sub>2</sub>**  
HYDROGEN

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# IDC Technologies Events & Technical Conferences

IDC Technologies is internationally acknowledged as the premier provider of practical technology training and technical conferences. With offices in Australia, New Zealand, Singapore, United Kingdom, Ireland, India, USA, Canada and South Africa, IDC Technologies has an enthusiastic team of professionals committed to providing the highest quality training and events.

## Conference Management

Over the past 20+ years, IDC Technologies has coordinated workshops and conferences around the globe. Each conference has a dedicated team of professional organisers who are committed to making that event a success. The aim is to have the highest calibre of speakers who will present an interactive program with real-world examples, case studies and solutions. We aim to provide conferences with niche topics, speakers and content.

## IDC Events specialise in technology training in the fields of:

- Education and Training
- Electrical Engineering
- Mechanical Engineering
- Chemical Engineering
- Industrial Data Communications and Networking
- Information Technology
- Electronic Engineering

Visit our website for upcoming event information: [events.idc-online.com](https://events.idc-online.com)



# Hydrogen Safety & Hazardous Areas

## An Overview

### 2nd Hydrogen Safety & Hazardous Areas Conference in Perth.

In 2023, our Hydrogen Safety & Hazardous Areas Conference held in Perth experienced overwhelming demand, filling all available seats quickly.

Join us for a groundbreaking conference where practical insights merge seamlessly with comprehensive information, providing an invaluable platform for professionals in the Hydrogen Safety & Hazardous Areas industry. Designed to spotlight best practices, emerging technologies, elevated standards, and up-to-date regulations, this conference focuses on hazardous environments and the secure utilisation of hydrogen.

As we navigate the dynamic shift towards renewable energies, this gathering stands as a beacon, emphasising the twin pillars of knowledge and safety. Our spotlight on hydrogen looks deep into its intricacies, recognizing the cryogenic nature of this versatile element and the heightened engineering controls and profound comprehension required for its safe application.

From production and processing to transportation and usage, every stage of hydrogen's lifecycle demands stringent protocols to safeguard stakeholders and prevent incidents that could jeopardise equipment, infrastructure, and the environment.

Potential accidents overshadow hydrogen's credibility as a dependable, secure, eco-friendly energy solution. We believe robust management practices are key to ensuring comprehensive understanding and adherence to superior safety protocols, thus fostering an environment where tasks can be executed without compromise.

Our esteemed presenters will share expertise on safely using instrumentation, electrical, and mechanical equipment within hazardous, flammable, or explosive environments. Sessions dedicated to hazardous areas will spotlight new technologies, best practices, and updates to standards and regulations to prevent workplace accidents and injuries.

Join us as we explore the economic impact of accidents, underscoring the importance of preventing explosions and fires caused by flammable vapors, dust clouds, or static electricity. Together, let's pave the way for a safer, more sustainable future powered by hydrogen.

# Call for Papers

Are you working in **Hydrogen Safety & Hazardous Areas** (technologist or technician, project manager, development lead, consultant, engineer or electrician, lawyer, or regulator) working with hydrogen or hazardous areas in mining, utilities, oil & gas, or industrial plants?

We are looking for **presenters** to submit a topic idea and present papers at this conference which has been developed to promote best practices in this arena. Join your peers in a vigorous and positive exchange of views, building your career and public profile and making a contribution to Australian engineering practice. **IDC Technologies Conference** presentations are non-commercial. The focus is on providing practical applications and solutions – probably the best way to showcase your technologies and engineering skills. In particular, we are seeking practical case studies, applications and the newest developments in this critical subject matter.



# What topics delegates requested for 2024?

Storage. Failures and discussion on what happened such as the recent California HRS failure.

Case studies and lessons learnt from the owner

Maintenance techniques

Basics of production

Safety in design

National competency framework for hydrogen safety

More on documenting the installations

Pipework

HHO Oxyhydrogen usage in existing fossil-fueled plants. Especially furnace

More actual case studies

Economics of projects and realistic timelines for the development of projects. Role of CCS

Production and more equipment manufacturers

Training options as they become available.

Project learnings and challenges

Day-to-day small hydrogen low-pressure low-flow installation

Human Factors: Hydrogen venting design:

Environment impact

EEHA, material selection and design.

ASME and ISO standards related to hydrogen.

EEHA: Hazardous Areas

Electrical Standards

Changes in Standards & Legislation Updates

EEHA: Hazardous Areas Electrical Standards Changes

# Topic Suggestions - Hydrogen

## RENEWABLE, GREEN & CLEAN HYDROGEN SOURCES

Hands-on learnings on safety, hydrogen incident investigation  
Technologies of hydrogen, ammonia and electricity  
Hydrogen as a strategy for climate change  
Hydrogen to replace fossil fuels  
Hydrogen Installation  
Hydrogen venting design  
Competency framework for hydrogen safety  
Power systems & controls  
Competency framework for hydrogen safety  
Renewable Hydrogen Sources, project learnings

## HYDROGEN PRODUCTION & CONVERSION

Production methods, basics of production  
Production technologies  
Low-flow installation, modelling  
Using fuel cells/pemfide  
Hydrogen blending in natural gas networks  
Maintenance techniques  
Water for hydrogen production  
Regional hydrogen hubs

## HYDROGEN TRANSPORTATION & STORAGE

Hydrogen vehicles (buses / boats / cars)  
Fuel cell electric vehicles  
Hydrogen export and global markets  
Competing with conventional fuel  
The hydrogen supply chain APAC  
Hydrogen refueller stations  
Hydrogen storage, case studies  
Compressed gas, liquid hydrogen, gas pipelines for storage  
HHO Oxyhydrogen usage in existing fossil-fuelled plants  
Storage Case Studies

## HYDROGEN APPLICATION

Practical vs Stationary Application  
Costs – is hydrogen cost effective and viable?  
Power Systems & Control  
Safety in Design  
National competency framework for hydrogen safety  
Documentation on Hydrogen Installations  
Case Studies

## OTHER/REGULATION & GOVERNMENTS

Presentation from Standard Technical Committees  
Standards & Regulations  
Challenges the industry is facing  
Hands-on learning on safety  
Hydrogen incident investigation

# Topic Suggestions – Hazardous Areas

- Apparatus grouping and temperature
- Electrical hazards, earthing, bonding and testing
- Standards, certification, certificates, marking and approval
- Codes of practice for selection and installations of Ex equipment
- Installation, maintenance, fault finding and repairs of Ex equipment
- Safe Electrical equipment design and selection for hazardous areas
- Case histories of electrical incidents
- Organisational requirements of safety for hazardous areas
- Safety programs for hazardous areas
- Training
- Earthing and bonding in hazardous areas
- Functional safety & hazardous areas
- Variable speed drive installation methods and sizing
- Designing compressors
- EEAA Hazardous Areas
- IEC/EX compliance process/ requirements for equipment manufacturing
- Risk management
- Auditing techniques
- Electrostatic ignition of hydrocarbons
- Protection against ignition arising out of static, lightning and stray currents
- Potential ignition risks associated with combustible liquids
- Intrinsically safe barrier and cable calculations
- Exercises specific to gas, vapours and dusts
- ASME, and ISO standards relating to hydrogen
- Recent revision of AS/NZS60079.10.1 how the changes impacted the industry
- Modelling and on actual calculations to determine hazardous areas showing real examples (e.g. comparing first principles calcs against generalised examples given in the HAC standard)
- Standards & Regulations Technical Committees, challenges the industry is facing
- Hands-on learning on safety



# Express Your Interest in Presenting

## To Express an Interest

Please fill in the Expression of Interest Form and email to Conference Manager Vynka Malone:- [Vynka.Malone@idc-online.com](mailto:Vynka.Malone@idc-online.com)

What is required of presenters:

- A **100 word abstract**, which outlines the topic you would like to present. This needs to be submitted electronically as soon as possible, to secure your place.
- Once your topic is approved, your **technical paper and PowerPoint slides** will be due six weeks prior to the event.

Speaking slots are allocated on topic suitability and on a first come first served basis.

Please note, sales presentations are not accepted.



# Sponsorship Packages

Gold Sponsorship & Coffee Cart Sponsor	Silver Sponsorship	Conference Soirée
<ul style="list-style-type: none"> <li>• Complimentary attendance for 2 delegates includes catering for two days and attendance at the networking drinks</li> <li>• Signage/banners displayed inside and/or outside the conference room</li> <li>• Trade display in the foyer (trestle table provided)</li> <li>• Logo featured on the conference brochure</li> <li>• Logo on the IDC website</li> <li>• Logo on conference manual</li> <li>• Seat drop – gift/promotional material</li> <li>• A copy of the attendee names and organisations post-event</li> <li>• Acknowledgement at opening and closing addresses</li> <li>• Promotional material emailed to delegates post-event.</li> </ul> <p style="text-align: center;"><b>\$4,500 Inc. GST</b></p>	<ul style="list-style-type: none"> <li>• Complimentary attendance for 1 delegate for two days and attendance at the networking drinks</li> <li>• Signage/banners displayed inside and/or outside the conference room</li> <li>• Trade display in the foyer (trestle table provided)</li> <li>• Logo featured on the conference brochure</li> <li>• Logo on IDC website</li> <li>• Logo on conference manual</li> <li>• Seat drop – gift/promotional material</li> <li>• Acknowledgement at opening and closing addresses</li> <li>• Promotional material emailed to delegates post event</li> </ul> <p style="text-align: center;"><b>\$2,800 Inc. GST</b></p>	<ul style="list-style-type: none"> <li>• Complimentary attendance for 1 delegate for two days and attendance at the networking drinks</li> <li>• Naming rights of the networking drinks</li> <li>• A short speech to extend an invitation to the attendees during the conference closing address</li> <li>• Signage/banners displayed in the space allocated for the networking drinks</li> <li>• Logo on event webpage</li> <li>• Acknowledgement at opening and closing address</li> </ul> <p style="text-align: center;"><b>\$2,000 Inc. GST</b></p>

# Sponsorship Benefits

## Attendee Profile

This conference presents an invaluable opportunity for sponsors to cultivate a robust business network comprising engineering and technical experts.

By participating, you will unlock the means to amplify your turnover by gaining entry to a precisely delineated target market.

This conference is an important event which brings together experienced professionals to present papers and case studies highlighting and examining Hydrogen and Hazardous Areas safety, new technologies and standards. This conference will provide a unique opportunity for companies with products and expertise in this area to reach their market of key decision makers.

## Decision Makers

A growing proportion of engineering and technical professionals are represented in most senior roles in industry, commerce and government. They are among the CEOs and Managing Directors of Australia's top 500 companies, as well as hundreds of dynamic small and medium enterprises around the country.

## Industries

A vast array of industries will be present at the conference providing you with a wide range of exposure for your products and services. Some of the many industries that will be present include:

Engineering

Mining

Oil & Gas

Government Agencies

Defence Industry

Training Companies

Water Resources

Power Generation Organisations

Manufacturing

Consultants

Energy Companies

Manufacturing



# Sponsorship Benefits

## An IDC Technologies Affiliation

Partnering with IDC Technologies at this conference will provide you with numerous benefits that can not be provided by other conferences or marketing activities. A business association with IDC Technologies will provide you with the opportunity to develop:

### Influential Associations

IDC Technologies have the benefit of global recognition as the premier provider of engineering and technology training.

Approximately 500,000 engineers and technicians have attended IDC training events over the last 20 years. Our valuable clients come from many of the world's leading organisations.

### Growing Business Opportunities

Representing your business at this conference will provide you with the opportunity to reach large and small businesses and consequently direct and influence their decisions to purchase your products and services

## Access to Key Decision Makers

Give yourself and your colleagues the opportunity to network with decision makers at the highest levels. In positions such as CEO, Managing Director, Engineering Director, General Manager, Engineering Manager, Chief Engineer and Senior Engineer; these individuals are involved in driving the direction of the company and making key purchasing decisions.

## Access to Leading Engineering Professionals

Gain access to industry acclaimed engineering experts for your clients and colleagues. All of our guest speakers will be available for consultation during networking sessions.

## A Competitive Advantage for Business

IDC Technologies has a proven track record with business partners. Through our involvement in conferences, workshops and education programs globally, we have built and expanded our business network and ultimately, increased our bottom line.

# Sponsorship Application Form

Contact Name:
Position:
Company Name:
Postal Address:
Billing Address:
Telephone:
Email:

I would like to confirm sponsorship of the Hydrogen Safety & Hazardous Areas Conference by the above organisation or individual.

Please tick package:

- Gold Package
- Silver Package
- Networking Drinks

Total Cost: \$
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Purchase Order #:
Signature:
Name:
Date:

## Confirmation:

Please email this signed form to [conferences@idc-online.com](mailto:conferences@idc-online.com) as well as high resolution images of your company logo and website link to be added to the brochure and website. Once we have received your application, we will review and send confirmation in writing along with an invoice for payment. Payment of the invoice must be made prior to the event.

## Sponsorship Cancellation Policy:

All cancellations must be made in writing to [conferences@idc-online.com](mailto:conferences@idc-online.com) on or a minimum of 60 days prior to the conference date, after this date they will incur a 50% cancellation fee. Any cancellations within 14 days of the conference will incur a 100% cancellation fee.