

Hydrogen: the Facts behind the Hype and Hyperbole

Presented by:



19th & 20th July 2022 | Brisbane QLD, Australia

CALL FOR PAPERS

Covering renewable, green and clean hydrogen, hydrogen production, its conversion, application, transportation and storage.

Are you a hydrogen specialist (technologist or technician, project manager, development lead, or engineer) working with hydrogen in mining, in the utilities or oil and gas industries, on industrial plants? If you fit this profile please submit a topic idea with a view to presenting your paper at our upcoming conference. We plan to promote best practice and share the latest knowledge in this important area.

Named after the Greek words *hydro* for "water" and *genes* for "forming," hydrogen makes up more than 90 percent of all atoms and is a promising source of "clean" fuel. Hydrogen, an energy carrier, contains no carbon; when burnt it produces only water and zero emissions. The most common use for hydrogen currently includes: petroleum refining; the production of ammonia, methanol and steel; the manufacturing of plastics, resins and flat sheets; and as a coolant for large electrical generators.

The future role of hydrogen is a cause for excitement, but also much debate. Hydrogen evangelists believe that hydrogen could solve the world's energy and climate problems, but there are challenges, including cost, sustainability and safety. Although hydrogen has been used in industry extensively, it is frequently produced using fossil fuels: natural gas and coal - which contribute to climate change. Furthermore, its production, transportation and storage all require energy, and there are huge costs and risks involved.

The commercial viability of producing hydrogen from renewable resources remains in question, as does its safe transportation and storage. These challenges, together with its current utilisation and emerging opportunities will be covered during the conference.

Join your peers in a vigorous and positive exchange of views, build your career and public profile, and make a contribution to Australian engineering practice in this vital area!

IDC Events do not allow vendors to "sell" their products; our conferences showcase practical applications and solutions, but which inherently display cutting-edge technologies, products and engineering skill. In particular we are seeking case studies involving this most common of chemicals, its applications, and recent developments.



Suggested Topics:

RENEWABLE, GREEN & CLEAN HYDROGEN SOURCES:

- Green hydrogen
- Renewable Hydrogen sources
- Life cycle sustainability assessment
- Sustainable / environmentally friendly hydrogen
- Hydrogen as a strategy for climate change
- Hydrogen to replace fossil fuels
- Clean hydrogen

HYDROGEN PRODUCTION & CONVERSION:

- Current production methods
- Production technologies
- carbon capture and storage
- Using fuel cells / pemtode
- Hydrogen blending in natural gas networks
- biological water splitting
- 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 projects for long haulage
- Compressed gas, liquid hydrogen, gas pipelines for storage

HYDROGEN APPLICATION:

- Practical vs Stationary Application
- Costs – is hydrogen cost effective and viable?
- Remote applications
- Denham hydrogen Microgrid Demonstration Project
- Ord hydrogen Feasibility Study
- Hybrid PV-Battery-Hydrogen System for Microgrids Feasibility Study
- Hyer Penetration
- Hydrogen safety

What is required from you?

- 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, so please register your interest today by emailing emma.cameron@idc-online.com

For further information on this event or to discuss sponsorship opportunities contact:

Emma Cameron
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