

Welcome to the April 2023 issue of the H2scan Digest

In this issue we present:

- H2scan CEO Dave Meyers Discusses Hydrogen Sensing in Global Hydrogen Review
- Leon White Explains the Price of Online Transformer Data in Transformer Technology
- Energy Central Podcast with Bill Whitehead and Leon White of H2scan
- Hydrogen Tomorrow News
- Upcoming Tradeshows and Conferences

H2scan CEO Dave Meyers Discusses Hydrogen Sensing in the *Global Hydrogen Review*

The *Global Hydrogen Review* recently published an article in which Dave Meyers, CEO of H2scan, discusses the importance of hydrogen sensing for industry and the emerging hydrogen economy. Along with fundamental information such as what hydrogen sensing is and what its industry demands are, Meyers also explains why it is so critical to the hydrogen economy and delves into the future of hydrogen sensors. Read the cover story article <u>here</u> on page 48.

COVER

STORY

GETTING A SENSE OF HYDROGEN





A control to Forder, the hydrogen economy will succeed to the enable for black light the strong global inventment and denire to make hydrogen a loading play a critical released of energy? Hydrogen service, will provide insight, into the use and impact of hydrogen service, both in current algolitations as well as within the emerging hydrogen-economy.

What is a hypdrogen sensor? windregen is the lightest and next abundant element is the windregen, and one would their that developing a device to measure is concentration in a gap or logical would be imple toffstrukturely, this is not the case, it took many years of measures and deatisyment - from the early day when canarias were used to detect replosion grants in mice. The file sensor of the moders age was developed a 1200 kp Dr. Offene internance of Mandhell Of Can. His design measured the heat constant by the presence of comboal/blue guess in ait this thermal conductivity inclination (a) in thill used basis, along with a range of new gas sense technologies that have been developed over the basis 120 years. Each of these technologies (e.g. gas chromotogensping, catalytic base), learner gas sensing needs, and there are many taxes to consider when sensing needs, and there are many taxes to consider when

What to consider when selecting a hydrogen sensor for industrial applications? Industrial weak spectral part of the sense the performance all operation importants, that mult be not over a sage of evidenmental and other conditions. Care mult be them is ensure that the watertal wave underlying technology works for the intended use

• Series performance may seem like a singlefloward spectrum to the deal is in the deals. For example, a spectra measurement alreament of 0.1% haud high the maximum error, or 10 could be the tree lights arrow, or a local or light evaluation of a series of the second second

er uderhet für miteinste er anzeld sättattor, manimumer ett service 17 goschläs. Som hydrogen anson tucknologen aus communitäre, soch as utalistatting masse, ford multi erritotisatty reglasset. Also communita dies need för semo allastatton to manifesting form accuracy för stradual uderhand the sattattion ling form accuracy för stradual uderhand the sattattion ing form accuracy för stradual uderhand the sattattion in ba shut doan för this amstenare. Responder för etterhand och dies stratut in intattetting kommunitäriste and the saturation in intattetting kommunitäriste and and and in intattetting som ander and of anzenaria en erholding tradualiste anderas a service trans to an fördesande.

more is not restative, sending a service team to an pers or nemote pipeline location takes a great deal effort and expenses. Sensor technologies requiring us mechanical parts and components, such as ges

Leon White Explains the Price of Online Transformer Data in *Transformer Technology Magazine*

Many utilities are frustrated because they spend more time installing, commissioning, and maintaining their multi-gas monitors than they spend actually fixing problems with their transformers. Users are starting to understand that utilizing low-cost, reliable single-gas sensors that last 10+ years makes more sense than trying to equip every large transformer with a high-end monitoring solution.

Learn about the cost of online monitoring below by reading expert Leon White's recent

Transformer Technology article titled, "Online Transformer Data Comes at a Price." You can find it <u>here</u>.



New Podcast: 'Detecting Hydrogen Gas to Extend Transformer Health'

Hydrogen has become a buzzword in the energy sector recently, but many in the utility sector may not have realized how critical hydrogen gas has been for the power grid for decades. Rather than being a matter of producing hydrogen as an energy source, the key use case has been monitoring the generation of byproduct hydrogen gas by power transformers and using that as a way to monitor health and status of these critical grid assets. In today's environment of supply chain challenges for major grid equipment and a renewed focus on the safety and security of utility assets, staying on top of the sensors needed to detect hydrogen gas has become more important than ever before. And that's why this podcast episode's conversation with two of H2scan's key leaders is so timely. Leon White, VP of Transformer Sales & Business Development, and Bill Whitehead, International Accounts Director, join the episode to provide education on this critical topic to those for whom it's flown under the radar and to advance the conversation to the latest and greatest capabilities of hydrogen sensors for transformers moving forward.

Listen in as Bill and Leon share what you need to know, teasing out the first in a three-part series highlighting this essential technology. You can listen to the podcast <u>here</u>.



Hydrogen Tomorrow News

Push for carbon-free hydrogen accelerates in US: Several new projects around U.S.

hydrogen have already been announced, but many more are anticipated once detailed IRS rules are finalized, which is expected during the second half of 2023.

<u>Japan to invest \$113bn in hydrogen economy by 2040</u>: Japan plans to increase its use of hydrogen from 2 million tons a year to 12 million by 2040, The Japan Times reports.

Essar's Vertex Hydrogen project chosen to help build UK's hydrogen economy: Essar, an Indian multinational conglomerate, has welcomed the announcement made by the Department for Energy Security and Net Zero (DESNZ) regarding the selection of its Vertex Hydrogen project for one of the two hydrogen plants to help build the UK's hydrogen economy.

Upcoming Tradeshows and Conferences

Analyzer Technology Conference

This conference and exposition focuses on analysis and measurement in the chemical processing industries. In the tradition of similar technical conferences, this event will highlight relevant, new technical papers. The show runs from April 17– 21, 2023 and takes place at the Galveston Island Convention Center. Learn more <u>here</u>.

Planning to attend? Email us for a meeting at booth 609: marketing@h2scan.com!



World Hydrogen 2023

The leading global platform for hydrogen business returns to the iconic Rotterdam Ahoy in 2023. Following the huge success of 2022 – including a sell-out summit – World Hydrogen 2023 will be doubling in size to keep up with surging demand, enabling twice as many

companies to showcase, collaborate and do deals to advance the global hydrogen economy. The conference runs from May 9-11 and takes place in Rotterdam Ahoy, Netherlands. Learn more <u>here</u>.

Planning to attend? Email us for a meeting at booth A48: marketing@h2scan.com!



Battcon 2023

Now in its 25th year, Battcon is a high-energy mix of industry specific presentations, panels, seminars and workshops, plus a trade show. It is a forum where those in the data center, telecom and utility industries can learn from and network with industry experts. Battcon will take place on May 9-12 this year and H2scan will be present as a gold sponsor. Register <u>here</u>.

Planning to attend? Email us for a meeting at marketing@h2scan.com!



World Hydrogen North America

World Hydrogen North America 2023 will bring together over 500 hydrogen professionals across the USA, Canada and the rest of the world. Hydrogen development is set to explode across the region with new projects being announced continuously. Join us in Houston May 15-17 to discover solutions, identify opportunities and debate how to capitalize on this evolving market. Learn more <u>here</u>.

Planning to attend? Email us for a meeting at booth 3: marketing@h2scan.com!





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