



INDUSTRY INSIGHTS OF THE LATEST
PRODUCTION TECHNOLOGIES

H2 TECH INSIGHTS

DAY 1 – Monday 13th May 2024

Efficiency and Cost Reduction

10:00 Spotlight: Canada

10:15 *Opportunities for Cost Reduction on Green Hydrogen Facilities*

Jake Martin, Business Development Manager – Energy Transition Projects, **Petrofac**

10:30 *Ortho-Para Catalyst for Hydrogen Liquefaction*

Danny Beissinger, Green Energy Business Development Manager, **Molecular Products**

10:45 *Underground Hydrogen Storage, the Real Technical Challenges*

Eddy Kuperus, Business Development Manager, **Gasunie**

11:00 *The Advantages of Automation in Scaling up Hydrogen Plants*

Jyri Kaivosoja, Senior Product Manager, **Valmet**

Safety

11:15 *Leading our Hydrogen Industry Safely Through Growth & Transition*

Owen Quake, Head of HSE&C, H2-CCS, **bp**

11:30 *How to Ensure Safety for Green Hydrogen Applications*

Martin Harrop, Key Account Manager, **MSA The Safety Company**

11:45 *Protecting Against Fire and Explosion Risks in Hydrogen Facilities*

Fraser Weir, CEO, **InterDam**

Electrolysis Technologies

12:00 *The Promise & The Risks of Hydrogen Electrolysis Projects*

Stephan Ladd, Team Lead Business Development, **H-TEC SYSTEMS**

12:15 *Upscaling from Large to Extra-large Electrolyzer Projects*

Denis Thomas, Business Development & Marketing Director EMEA / APAC – Electrolyzers, **Accelera by Cummins**

12:30 *Advancing Nel's Electrolyzer Technology for Large-Scale Industrial and Energy Applications*

Everett Anderson, VP Advanced Product Development, **Nel Hydrogen**

Project Updates

- 12:45** *\$1.8bn Linde-OCI Low-carbon Ammonia Project Update*
Lorenzo Fernandez, Sr. Strategy Manager, Clean Energy, **Linde**
- 13:00** *The Feedstock Transition: A Sustainable Carbon Future*
Lucas Prat, EVP Consulting, **Power2X**
- 13:15** *Utilizing Liquid Hydrogen for Global Decarbonization, from Industry to Maritime Mobility*
Erwan Bruneau, Product Manager Europe – Hydrogen for Mobility, **Air Products**
- 13:30** *Transforming Industries: The Economic Edge of Carbon-Negative (bio)hydrogen Produced On-Site*
Henk Kleef, CEO, **HyGear**

Latest Technologies

- 13:45** *KTS Cascade Cooling: Optimizing Plot, Power and Water Consumption in Central Cooling Systems*
Roy Niekerk, VP Hydrogen & New Energies, Global Sales Solutions,
Kelvion Thermal Solutions
- 14:00** *Measurements in the H2 World: Control your Safety and Quality*
Stephan Zuijendorp, Global Hydrogen Industry Segment Manager,
Process Sensing Technologies (PST)
- 14:15** *Scalability and Efficiency of Electrolysis Power Electronics*
Wouter van Gennip, Commercial Director, **Prodrive Technologies**
- 14:30** *Future Proof Power Supply Solutions for Electrolyzers – Provide Hydrogen with Benefits*
Hasret Varan, Sales & Business Development Manager - P2G, **SMA Altenso GmbH**
- 14:45** *Ammonia Cracking by Technip Energies*
Maria Liouta, Product Development Engineer, **Technip Energies**
- 15:00** *Compression Solutions for Hydrogen Transportation and Storage in Europe*
Veronika Schelling, Hydrogen Mobility & Energy Leader, **Burckhardt Compression AG**
- 15:15** *AI-Powered Condition Monitoring of Water Electrolysis in Real-Time*
Dr. Helmut Lademann, Managing Director, **R2**

Global Updates

15:30 **Spotlight: Canada**

15:45 *Overview of the Hydrogen Strategy and Technology in Japan*
Panel led by Jetro Japan

17:15 *Spotlight on Danish Hydrogen Developments*

17:45 *The Missing Piece in the Global Hydrogen Puzzle*
Koos-Jan van Brouwershaven, CEO, H2FUEL

End of Day 1 – INSIGHTS Stage

H2 TECH INSIGHTS

DAY 2 – Tuesday 14th May 2024

10:00 *The Invisible Threat: Navigating the Safety Risks of the Global Hydrogen Economy*
Steve J Elliott, Senior Director – Process Safety, **Schneider Electric / Process Automation**

Decarbonization

10:15 *Using the Latest Science to Maximize Hydrogen's Decarbonization Potential*
Sofia Esquivel Elizondo, Low-carbon Energy Scientist, **Environmental Defense Fund**
Beth Trask, Vice President, Global Energy Transition, **Environmental Defense Fund**

Electrolysis Technologies

10:30 *Responsible Manufacturing of PEM Membranes to Advance the Hydrogen Economy*
Jan Lenders, Application Development Manager, **Chemours**

10:45 *Porous Metal Architectures for Tomorrow's Energy Landscape*
Alex Papandrew, Sr. Program Manager - Clean Energy, **Mott Corporation**

11:00 *Electrolysis Without Membranes – How and Why?*
Jon Duffy, CEO, **Clean Power Hydrogen Group Ltd**

Americas

11:15 *Belledune: Connecting Europe with Canadian Green Hydrogen*
Denis Caron, President and CEO, **Belledune Port Authority**

11:45 **Spotlight: Canada**

12:00 **Spotlight: Canada**

12:15 *Hydrogen Horizons: Navigating Current Realities, Exploring Future Frontiers in Brazil*
Spotlight: Brazil

13:15 **Spotlight: US Dept of Energy**

Scaling up Hydrogen Production

13:30 *Automation Concepts from Control to Field Level to Simplify and Upscale Electrolysers*
Joachim Brosch, Global Key Account Manager Process Industries, focus on Hydrogen, **Festo SE & Co. KG**
Anja Türüdü, Business Development Processautomation South Europe & MENA, H2 Driver EMEA, **Festo SE & Co. KG**

13:45 *Net Zero Industries: How to Master the Hydrogen Offtake Challenge?*

Bastian Knoors, Director Energy Transition, **Royal HaskoningDHV**
Nienke Jorna, Consultant Energy Systems, **Royal HaskoningDHV**

14:00 *Green H2 – Project Challenges and Opportunities*

Dr. Jens Dickmeis, Senior Business Developer, **Vattenfall**

14:15 **Spotlight: Canada**

14:30 **Baden-Württemberg**

14:45 *ANDRITZ a Leading Global P2X Solution Provider for Green Hydrogen and Renewable Fuels Production*

Sami Pelkonen, EVP Green Hydrogen; Renewable Fuels and P2X, **Andritz**

15:00 *Advantages and Challenges of a DC Power Coupled Hydrogen Plant*

Dino Ablakovic, Director, Microgrid Solutions, **GE Vernova**

15:15 *Modular Solutions for Hydrogen Efficiency and Safety*

Guido König, Head of Focus Industries Management | Segment Manager for Sustainable Industries, **SAMSON AG**

15:30 **Spotlight: Canada**

16:30 *Comparative Insights into Low and High Temperature Ammonia Cracking Catalysts*

Jebbin James, Development Lead Process Technology, **Duiker Clean Technologies**

16:45 **Tim Hard**, SVP Energy Transition, **Argus**

End of Day 2 - INSIGHTS Stage

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Speakers indicated are in the process of being invited & are not necessarily confirmed. Private Companies are subject to sponsorship pricing unless discretion is exercised



INNOVATIVE PRACTICAL APPLICATIONS OF HYDROGEN

H2 TECH INNOVATION

DAY 1 – Monday 13th May 2024

10:00 *Partnering Competitors to Enable the Hydrogen Economy*



**Women in Green
Hydrogen**

Moderator:

Dr Gokce Mete, Senior Partnership Manager, **Vattenfall**

Panellists:

Samira Barakat, VP Partnership and Business Transformation, **Vattenfall**

Dr Fiona Simon, CEO, **Australian Hydrogen Council (AHC)**

Mary-Rose de Valladares, Non-Executive Director, **ATOME Energy PLC**

Vibeke Rasmussen, SVP Product Management & Certification, **Yara Clean Ammonia**

10:45 *Careers Combatting Climate Change: Challenges and Opportunities in the Hydrogen Sector*

Panel led by: BOSS Energy Consulting

Moderator:

Rob Arthur, Director of Partnerships, **Sustainable Energy Council**

Panellists:

Alicia Eastman, Co-founder & Board Director, **InterContinental Energy**

Dr Fatemeh Rezazadeh, Group Vice President - Hydrogen and Renewables, **VARO Energy**

Michael Johnson, Founder and MD, **BOSS Energy Consulting**

Hydrogen Industrial Applications

11:15 *Process Considerations for Hydrogen Liquefaction Systems*

Jeff Odell, Senior Process / Systems Engineer, **Nikkiso Cryogenic Process Systems**

11:30 *How to Keep your Hydrogen Product Process at the Right Temperature. All the Time, All the Way*

Shaimaa Obaid, Head of Marketing Product Management for Industrial Heat-Tracing EMEA Region, **nVent RAYCHEM**

11:45 *Elastomer Sealing for Hydrogen Applications*

Raffaella Villa, Business Development Engineer for Compounding, **MCM, Angst+Pfister Group**

Hydrogen Mobility Applications

12:00 Spotlight: Canada

12:15 Spotlight: Canada

12:30 *How Standardised Compression Solutions are Accelerating the Adoption of Hydrogen*
David Gordon, Global Product Manager, **Haskel**

12:45 bp

13:00 *Hydrogen Mobility and Transportation Solutions for the Future*
Mark Lawday, Vice President and General Manager, **Luxfer Gas Cylinders Europe**

Hydrogen for Power

13:15 *Net-Zero Backup Power for Green Ammonia Hubs*
Saidi Abdessamad, Senior Business Development Manager, **INNIO Jenbacher GmbH & Co OG**

13:30 *Modular Hydrogen Refuelling Stations*
Rob Castien, CEO, **Resato Hydrogen Technology**

13:45 *Full Hydrogen Retrofit Solutions for Existing Gas Turbine Heat and Power Plants*
Peter Stuttaford, CEO, **Thomassen Energy B.V.**

Hydrogen Storage, Transportation and Distribution

14:00 *Beyond Batteries - Long Duration Energy Storage Utilizing Hydrogen*
Harald Uilleberg, Project Manager, **TechnipFMC - New Energy**

14:15 *Salt Caverns as Large-Scale Strategic Hydrogen Storage*
Dennis Bauer, Sales & Product Manager H2 Production and Refuelling,
NEUMAN & ESSER Deutschland GmbH & Co. KG

14:30 *Why is Modeling Essential for Hydrogen Storage and Technologies?*
Ruud Börger, Managing Director, **COMSOL**

14:45 *Hydrogen Storage: What does it Take to Make it Happen?*
Marco Papa, Vice President, Energy Storage, **Uniper**

15:00 *High Pressure Modular Storage Solution for HRS*
Alice Orsi, Sales Manager H2 – Energy Storage, **Faber Cylinders**

15:15 *Grill my Boss! Hot Questions on our LOHC-MCH Answered*

Osamu Ikeda, Managing Director, **Chiyoda Corporation Netherlands B.V.**
Sara Milesi, General Manager, **Chiyoda Corporation Netherlands B.V.**

15:30 *Green Ammonia – New Technologies for Production and Application*

Malte Semmel, Head of Group Synthesis Products: Separation and Production Technologies, **Fraunhofer Institute for Solar Energy Systems ISE**

Florian Rümmele, Head of Group Synthesis Products: Application & Characterisation, **Fraunhofer Institute for Solar Energy Systems ISE**

15:45 *Norway Enabling Low Carbon and Renewable Hydrogen Value Chains (60 mins)*

Hydrogen Infrastructure

16:45 *Novel Sorption Enhanced Reforming for Low Carbon Hydrogen Production*

Sandeep Verma, Technical Advisor, **SLB New Energy**

17:00 *How Research and Technology Infrastructures can Support the Transition to a Hydrogen Society*

Dr. Jonas Okkels Birk, Senior Consultant, **Danish Technological Institute**

17:15 **Spotlight: Canada**

17:30 tbc

17:45 tbc

End of Day 1 – INNOVATION Stage

H2 TECH INNOVATION

DAY 2 – Tuesday 14th May 2024

Hydrogen Mobility Applications

10:00 *Hydrogen in Offroad Applications*

Henrik Weitze, Mechanical Engineer - International Projects, **Liebherr**

Gerhard Keinprecht, Development Engineer / Advanced Development and Power Train, Wheel loader, **Liebherr**

Hydrogen Storage

10:30 *THera™ SEAL: the Next Gen Sealing Solution for High Pressure Gaseous Hydrogen Storage*

Maurizio Bellingardi, Senior Product Manager Hydrogen Technology – Industrial Application, **Tenaris**

10:45 *Opening up the Hydrogen Supply Chain through Assurance*

Leanne Halliday, Territory Manager and Global Hydrogen SME, **LRQA**

11:00 *Innovative Solutions: Marine Loading Arms Redefining Liquid Hydrogen Transfer to Ships*

Volker Stoetzel, Head of Design and Engineering, **SVT GmbH**

11:15 *From Single-stack to Multi-stack, Modular Electrolyser Systems*

Troels Boysen, Senior Sales Manager, Scale project, **Green Hydrogen Systems**

APAC

11:30 **Spotlight: Australia**

Session led by:



AUSTRALIA

Moderator:

Anna Freeman, Policy Director, Decarbonisation, **Clean Energy Council**

Panellists:

Dr. Jehan Kanga, CEO, **Rux Energy**

Dr. Steven Percy, CEO, **Vireo Energy**

Dr. Patrick Hartley, Leader, CSIRO Hydrogen Industry Mission, **CSIRO**

12:15 **Spotlight: Queensland / APAC**

12:30 Power2X

12:45 Schneider Electric

13:00 tbc

13:15 **Maria Cristina Baroudi**, Matter Expert in Renewable Energy & Hydrogen, *Duke University Class of May '23 | Graduate with Distinction | B.S.E. Mechanical Eng. | Finance MN*

13:30 **Nicolas Champetier**, Chief Executive Officer, **HYVIA**
Anouk Poelmann, Country Director, **Renault Group Nederland**

Technology in Action/Projects Deployed

14:00 *Practical Applications of Liquid Hydrogen in Decarbonising Heavy Industry*
Christopher Boyle, Co-Founder and Chairman, **Fabrum**.

14:15 *New Technology in a Lean Execution Model*
Hugo Houben, Project Director, **Fluor**
Joris Blom, Project Engineering Manager, **Fluor**

14:30 **Spotlight: Canada**

15:30 *International Power-to-X Hubs - Insights into Global Production and Supply Costs of Green Hydrogen and Derivatives*
Christoph Hank, Project Manager for Techno-Economic and Environmental Assessment of Sustainable Synthesis Products, **Fraunhofer Institute for Solar Energy Systems ISE**
Marius Holst, Project Manager Hydrogen Infrastructure and Technical System Analysis (HTS), **Fraunhofer Institute for Solar Energy Systems ISE**

15:45 **Spotlight: City of Rotterdam**

16:00 *RH2INE Presents: Scaling up Containerised H2 Solutions in Inland Waterway Transport*
Klaas van Staalduine, RH2INE Network Leader, **Province Zuid-Holland**
Marjon Castelijns, Project Lead, **CONDOR H2**

16:15 *Case Study: Address the Challenges of Off-Grid Hydrogen Production by Energy Control System*
YE Yong, VP of Sales, **Green Power Co., Ltd.**

16:30 *SwitchH2 H2/NH3 FPSO*
Bob Rietveldt, Director, **SwitchH2**

16:45 MIT

End of Day 2 – INNOVATION Stage

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