

HONEYWELL USERS GROUP 2021 TECH TALKS

LIVE DAYS JUNE 21-23; PLATFORM OPEN UNTIL JULY 2

At Honeywell Users Group (HUG) **Information + Experience + Industry Visionaries** come together. This year, we're taking HUG online, Tech Talks is the 2nd virtual Honeywell Process Solutions HUG edition. With live presentations on topics such as autonomous operations, sustainability, renewables, and cybersecurity, you'll learn how to make operations safer, more efficient and more profitable. It's all the insights you're used to from the Honeywell User Group, delivered right to your desk, phone or laptop.

[REGISTER NOW](#)

JUNE 21

*Start times reflect Kuala Lumpur, Amsterdam, Houston. *Date and times can be subject to change.*

10.00 AM

Welcome to HUG Tech Talks!

Ujjwal Kumar, President, HPS

Let's get this conference started by hearing from HPS President Ujjwal Kumar. He'll share five key takeaways you can expect from this year's Users Group.



10.10 AM

Technology and Innovation Updates

Jason Urso, CTO, HPS

It's an exciting time in industry, as we drive the next inflection point in plant operation benefits through how we utilize control, sensing, and knowledge, and Honeywell continues to be at the forefront of technological advancement. Join CTO Jason Urso to learn about the latest automation technology and software that are driving step-change improvements in all areas of process automation. Honeywell products, services, and software – everything from Experion PKS HIVE to Advanced Control, to Asset Performance Monitoring, to Remote Services and Operations are providing the foundation for our customers to build resilient and autonomous operations, bringing huge advances in safety, reliability, and efficiency. Don't be left behind.



11.00 AM

Flexible Manufacturing Ecosystem Vision for Life Sciences & Batch Industries

Shawn Opatka, VP Life Sciences, HPS

Industry 4.0 is driving the Life Sciences & Batch Industries to digitalization solutions across their manufacturing & quality processes.

Honeywell is uniquely positioned to help create a flexible manufacturing ecosystem that will support customers' current and future technology landscapes.

We will present Honeywell's vision for delivering this ecosystem built on Experion Batch, as well as the newest addition to Honeywell, Sparta Systems, a leader in digital quality.



11.30 AM

Roundtable: Best-in-Class Solution to the Battery Energy Storage Systems Market: Dedicated Capital and Structuring + Energy Performance Contracts

Charles Esdaile, Managing Partner, ALTURUS,
Charlie Daum, Managing Director, ALTURUS
Eren Ergin, GM Renewable and Distributed Assets, HPS
Benjamin Kerr, Senior Business Development Analyst, Renewable and Distributed Assets, HPS

An Alturus and Honeywell Renewables and Distributed Assets (RDA) roundtable presenting the recently-announced strategic partnership to deploy battery energy storage systems (BESS) to customers globally. Alturus will explain how they recently raised \$600 M in top-line equity and their unique approach to dedicated capital and structuring for Honeywell RDA BESS projects, as well as why Honeywell's leading-edge technology and Energy Performance Contracts matter for this thriving market. Joined by RDA business leader Eren Ergin, the presentation will also cover a variety of insights including: current challenges, misconceptions, and industry projections for the ensuing years.



10.00 AM

EHS 4.0 and Digitalization of Safety & Risk Reduction

Adrian Fielding, GM Safety Initiatives, Honeywell Process Solutions

As the principles of Industry 4.0 become widely prevalent, leading industrial organizations realize that a safe work environment is critical, not only for operations and the well-being of personnel, but also for improving productivity and profit. Learn how safety can become your profit center.



10.20 AM

Reducing Cybersecurity Risk and Ensuring Continuous Operations

Paul Griswold, CPO for Cybersecurity, Honeywell Connected Enterprise

Now more than ever, industrial companies are facing increasing cyber threats and vulnerabilities in their OT environments. Those that do more to identify indicators of compromise and attacks early, and quickly respond to contain and remediate the threats, will gain a competitive advantage in operational resilience. This presentation will cover the latest OT cybersecurity challenges companies face, as well as how Honeywell Forge Cybersecurity solutions help overcome these challenges, reducing cybersecurity risk and supporting continuous operations.



10.40 AM

FREEPORT LNG interview on A360 Service program

Mark Mallett, SVP, Freeport LNG, and Pramesh Maheshwari, VP GM, Honeywell

Leaders from Freeport LNG and Honeywell discuss the recent process online migration and share insights as to how the Honeywell Assurance 360 Service contract supported the modernization project.



11.00 AM

VEOLIA's Remote Approach to Control System Modernization

Michael Bridgers, Engineering Fellow, Veolia North America

Veolia's Red Lion manufacturing plant in Delaware City, Delaware, USA, adopted a well-planned remote strategy for a control system upgrade to improve performance, mitigate risks, and shorten project schedules without burdening central and on-site engineering resources. Watch this session to understand how Veolia could seamlessly upgrade to the latest version of Experion using Remote Migration Services with reduced execution time.



11.20 AM

Experion PKS Roadmap

Joe Bastone, Director Offering Management Experion PKS, HPS

Honeywell's flagship distributed control system continues to evolve with new features designed to further facilitate flawless project execution. Experion PKS enhances the operator experience with paradigm shifts in functionality, in the same way as Experion HALO, simplifying automation projects with Experion PKS HIVE.



10.00 AM

Welcome to the Future of Thermal

Chad Briggs, VP and GM, Honeywell Thermal Solutions

Join Chad Briggs, Global VPGM of the Thermal Solutions business, as he will provide an update on this business' growth strategies, key business priorities and the important role you play for joint success.

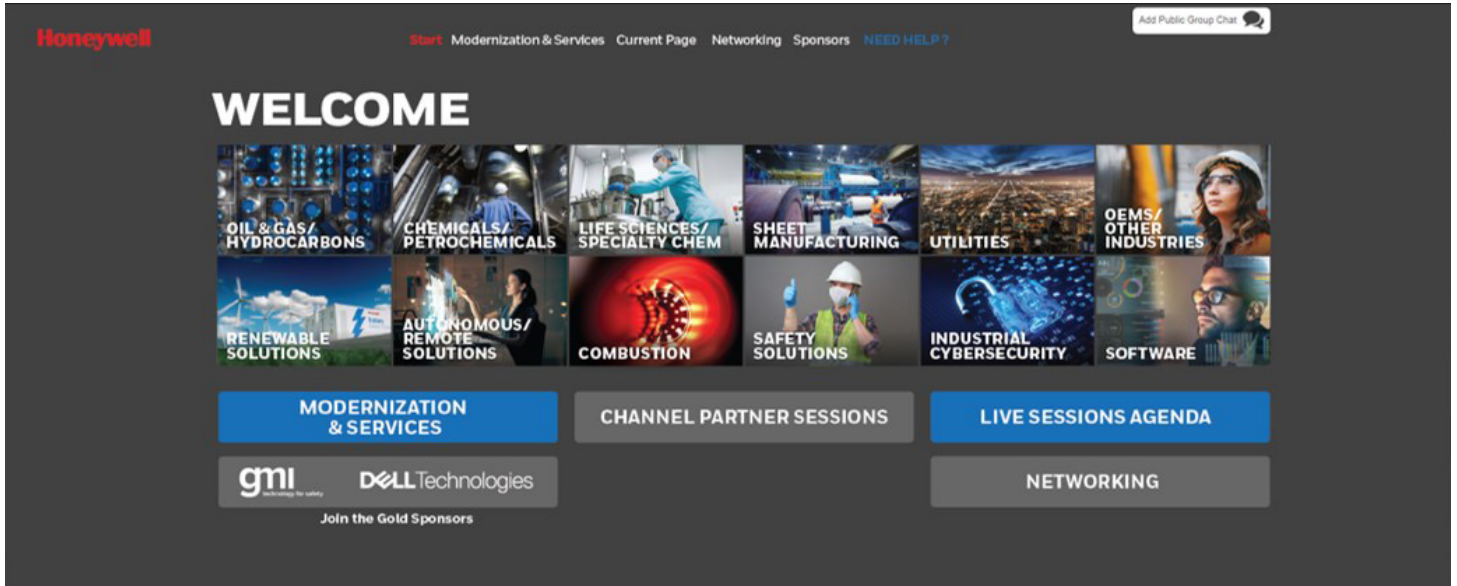


10.20 AM

Honeywell Leadership Panel Q&A

Q and A with Honeywell Leadership panel, based on questions coming in from surveys.





The image shows the Honeywell virtual conference welcome page. At the top left is the Honeywell logo. To its right is a navigation menu with links: Start, Modernization & Services, Current Page, Networking, Sponsors, and NEED HELP?. In the top right corner, there is a button labeled 'Add Public Group Chat'. The main heading is 'WELCOME' in large white letters. Below this is a grid of 12 industry-related images with labels: OIL & GAS/HYDROCARBONS, CHEMICALS/PETROCHEMICALS, LIFE SCIENCES/SPECIALTY CHEM, SHEET METAL MANUFACTURING, UTILITIES, OEMS/OTHER INDUSTRIES, RENEWABLE SOLUTIONS, AUTONOMOUS/REMOTE SOLUTIONS, COMBUSTION, SAFETY SOLUTIONS, INDUSTRIAL CYBERSECURITY, and SOFTWARE. Below the grid are three blue buttons: 'MODERNIZATION & SERVICES', 'CHANNEL PARTNER SESSIONS', and 'LIVE SESSIONS AGENDA'. At the bottom, there are logos for 'gmi' and 'DELL Technologies' with the text 'Join the Gold Sponsors', and a grey button labeled 'NETWORKING'.

CUSTOMER PRESENTATIONS

Sessions will be available on-demand. Topics can be subject to change.



BASF'S Success with a Multi-Year Control System Modernization

Daniel Siddiqui, Lead I&E Engineer, BASF

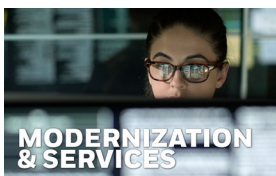
Due to ongoing communication issues affecting its utilities system performance, BASF made L2 software upgrades as the first phase of a multi-year control system migration program. The company worked closely with Honeywell on an on- process migration of its Experion/TPS software platform to Experion R511.3. Join this session to understand how BASF was able to achieve the benefits of the new technology, reduce engineering effort and cost, minimize risk, and preserve valuable intellectual property by implementing Honeywell's proven migration solution.



ENTERPRISE PRODUCTS Talks: OT Cybersecurity Challenges and Approach to Mitigation

Greg Rogers, Senior Director, Automation, and
Ted Porter, Senior Manager ACS Maintenance & Cybersecurity, Enterprise Products

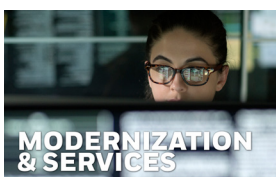
Cyberattacks are becoming more prevalent in the Operations Technology (OT) environment. With more advanced attacks than ever before, there is an increasing need to make these OT systems resilient while maintaining the necessary connectivity to back-office and support systems. This presentation will describe the tools and methodologies required to mitigate cyberattacks and establish an approach to defense from high-level planning to specific requirements. It will also address many of the challenges the industry is facing in these trying cyber times.



DuPont Employs Trace To Optimize Documentation, Change Detection And Control System Management

Joshua Strickland, Automation & Process Control Engineer, DuPont

Like other large industrial organizations, DuPont is faced with critical documentation and management of change (MOC) requirements. The company's Spruance manufacturing site in Richmond, Virginia, has had extensive experience with Honeywell Trace™ since 2017, providing valuable input on the software tool, upgrading to successive releases of the product, and expanding user access to its data collection and change management features. Join this session to learn how DuPont has been able to streamline project engineering effort, improve change tracking and validation, enhance troubleshooting and minimize downtime using the Trace solution.



SARAS Remote Strategy for Honeywell Experion Modernization

Davide Ledda, Automation and Cybersecurity specialist, Saras S.p.A.

Saras Refinery is a super-site with a capacity of 300 MBPD and Nelson index 11.7. At present, it counts 38 process units (including the petrochemical section) and a 575 MW IGCC complex.

In spring 2020, a major turnaround activity was planned, including an important executive project to modernize the Honeywell DCS infrastructure, moving from TDC/TPS to Experion PKS. As at that time the world was hit by the Covid pandemic, this crisis affected the project as the presence of onsite workers was very low, especially in the Control and Technical rooms.

A remote solution was deployed to handle DCS configurations, testing hand training from remote stations placed in a properly equipped staging area outside the refinery, while adopting all measures to guarantee efficiency and minimize cyber-security risks. Watch this session to understand how the project was successfully implemented during the pandemic time, using remote infrastructure.



British Sugar's Process Automation and Ways of Working through Augmented Remote Operations

Jignesh Chauhan, Control and Automation Systems Lead, British Sugar

Among many challenges to enable the new ways of working, such as securely accessing the advanced solutions (e.g., Dynamo, CPM) from the business network, and integrating these advanced solutions systems, one particular challenge for British Sugar was to have remote access to the Experion platform for the operators. The aim was to support the operations from cross-sites with similar CCR set-up and also to use the mobile devices within the private cellular network. As part of the solution, Honeywell offered Augmented Remote Operations (ARO) for remote access to Experion and agreed to run a proof of concept at one of the British Sugar sites to have the customer experience the solution, identify and address any risks, maximize opportunities and build confidence in the ARO solution.

In this presentation, we will share British Sugar's experience with ARO proof of concept and the customer's process automation journey.



North Carolina State University – Integration of Smart Technologies for Innovation and Workforce Development for the Paper Industry

Lokendra Pal, Associate Professor and Med Byrd, Associate Teaching Professor, North Carolina State University

Industry 4.0 is transforming the manufacturing industry by offering more flexibility, increased automation, and better efficiency. North Carolina State University will showcase its collaborative effort towards integrating the smart tools and technologies in the paper pilot plant for the next generation of workforce training and manufacturing innovation for the paper industry.



Halliburton – Streamlining and Digitizing the Upstream Oil and Gas Workflows Using Honeywell Forge Inspection Rounds and Halliburton Decision Space

Raed Charrouf, Senior Product Manager, Halliburton

Operator rounds in the oil upstream sector have a unique set of challenges as opposed to traditional refinery and process plants. Lease operators, also known as pumpers, have to deal with multiple assets in a single round called route, traversing multiple large geographical locations (wells & facilities), to perform data capture and daily activities like well test, oil and water hauling, injections, and maintenance. During the process, adherence to safety, flexibility in data capture, and real-time alerts from the field to immediately notify back-office personnel of changing well conditions is paramount to the success of production operations rounds. Please join us as Raed Charrouf, Senior Product Manager at Halliburton, discusses these challenges and how Honeywell Forge Inspection Rounds and Halliburton DecisionSpace address these needs.



Aibel's Emergency Depressurization System Studies with UniSim EO Blowdown

Hamid Rafiq, Principal Engineer Process Systems, Aibel, and Jamie Barber, Advanced Solutions Expert, Honeywell

The Emergency Depressurization System is designed to make sure that the plant is depressurized in a fast and reliable manner. This is also required to reduce the leakage volumes, avoid rupture (if the segment is exposed to fire), and select material for low temperature.

In this study, depressurization of test separator segment is simulated in UniSim EO blowdown utility. Required passive fire protection (PFP) is determined by performing fire rupture calculations. In addition, the minimum design temperature for piping and equipment is also determined by performing cold blowdown.

Join us to learn about how AIBEL utilizes UniSim EO Blowdown to enable a more detailed analysis and have more control of important parameters like wetted area and heat transfer method.



Getting ready for your Virtualization Migration. An Interview with PEARL GTL

Ilya Maizlin, PCD/OT Integrity Team-lead, PEARL GTL and Paul Hodge, Offering Management Leader System Infrastructure

The introduction of virtualization technology in the industrial control industry has delivered significant benefits in scalability, efficiency, reliability, and consolidation. However, these benefits do not come for free, and organizations require strategies to manage the new skillsets, technologies and risk planning that comes with this new technology. This video interview describes PEARL GTL approach to these considerations in a site-wide deployment of Honeywell's Premium Platform for Experion Virtualization Solutions.



PETRONAS Experience Realizing Enterprise-Managed OT Cybersecurity

Ir. Michael Ng Chien Han, OT Domain Authority, Petronas, and Tan Ping Yang, Instrument and Control Engineer, Petronas

PETRONAS is currently going through a rapid and aggressive digitalization transformation. With this process comes increased cybersecurity risks. Realizing this, PETRONAS has also embarked on a cybersecurity maturation campaign. One of the efforts included centralizing the cybersecurity function for both IT and OT Domains. This presentation sheds some light on the challenges and the fruits of that effort.



Kairos Mining is using Smart APC, Adaptive MPC Utilizing Artificial Intelligence

Felipe Avila, Data Scientist, Kairos Minerals, and Julian Rojas, Data Scientist, Kairos Minerals

Smart APC is a powerful tool for adaptative MPC using Artificial Intelligence. We use machine learning and different optimization tools to generate recommendations to the operational limits for controlled and manipulated variables in Profit Controller Systems, seeking an uplift in the performance of the process.

This session will show the general results obtained in the implementation of Smart APC for mining clients in Chile, specifically for the grinding process. This tool has two parts. The first one is to understand the process and use historical data for training machine learning models, with the aim to model the process behavior. After training the model, we seek to optimize it and give recommendations to the process operator for an increase in the performance.

Co-hosted by Honeywell and Kairos Mining, this session will delve into how the deployments were made to understand how the deployments were made and the challenges faced using Smart APC.



Woodside on Plant-Wide Optimization: Integrating Control Across Multiple Complex Offshore and Onshore LNG Facilities

Wessel Van Wyk, Lead Process Control Engineer, Woodside, and Regina Vaisey, Lead Project Engineer, Honeywell

As operating facilities have become more complex and interconnected, the need for real-time plant-wide optimization strategies has increased. Woodside and Honeywell in Australia have commissioned a real-time optimization application, implemented in November 2019, that coordinates natural gas production and distribution for the North West Shelf LNG megaproject. Many technical and logistical challenges were overcome to make this project successful.

Due to varying production demands and shifts in constraints based on ambient temperatures, a changing target was implemented based on the time of day and season.

This presentation will describe how these targets were implemented and discuss the project's challenges and successes so far.



Chevron's Modeling Ejectors Using UniSim Design

Krishnaraj Sambath, Lead Process Automation Engineer, Chevron

Ejectors are devices with no moving parts that use high-pressure motive streams (such as steam) to create and maintain vacuum in vessels they are connected to.

Some upstream Oil & Gas industry applications include low-pressure well startups and stock tank vapor recoveries, while some downstream (refining) applications include vacuum distillation units, sulfur recovering units, and flaring systems.

In this talk, hear Chevron's story of how they used UniSim Dynamics to study upset scenarios of a system centered around ejectors – as well as their findings on ejector model performance.



Hydro Alunorte – Being Greener on Alumina Production

Daniela Dos Santos Ferreira, Senior System and Automation Engineer, Hydro Alunorte

This presentation will summarize how the Honeywell Forge APC program was deployed to Hydro Alunorte Calcination Area as part of its Digital Transformation Strategy to achieve Operational Excellence.

For the most part, this APC program was deployed along with the Pandemic social distancing constraints, i.e., with Hydro Alunorte and Honeywell working together in remote collaboration and with strong synergies.

The program deployment stayed within the planned schedule and improved the operating performance of Hydro Alunorte Calcination Area, enabling a decrease in thermal (fossil fuel) energy consumption and a relevant reduction on the Hydro Alunorte's carbon footprint emissions.



PETRONAS: A Retrospective of Functional Safety Management & Documentation Challenges from End User's Perspective

Muhammad Lukman Al Hakim Muhammad, Instrument and Control Specialist, Petronas

The importance of functional safety especially in the oil and gas industry is unquestionable. Unfortunately, some organizations lack effective management and documentation systems to govern it. As both management of functional safety and documentation are two important pillars in fulfilling safety lifecycle requirement according to IEC61508/511, any gap in them can lead to detrimental effect to the plant overall safety and availability.

This paper illustrates the important of an effective functional safety management including policy, planning, manpower competency, validation, audit as well as certification. All these elements need to be properly documented, fit for purpose, straightforward, accurate and accessible at the same time in order for all phases of safety lifecycles can be effectively performed.

With Malaysian Refining Company Sdn. Bhd (MRCSB), one of PETRONAS subsidiaries in Malaysia as the case study, this paper further examines the challenges to achieve world-class management system in this aspect from end user's lens. The focus will be on safety system installation and commissioning, safety validation, operation, maintenance, repair and modification phase.



Haya Oman Uses Honeywell IT HIVE for Central Control Data Center and Optimization

Rajesh Jagdishchandra Kothari, Automation Engineer, Haya Oman

Haya Water has contracted the services of Honeywell Oman to provide a HIVE Integrated solution comprising four distinct Honeywell Experion control systems.

The four Experion systems are located at geographically distant locations across the Muscat Governorate. Using the Haya water extended Fibre Optic Network, the project will deliver a centralized IT HIVE cluster with the latest VMware functionalities, including High availability and fault tolerance enabled by VxLAN. The IT HIVE cluster is supported by a state-of-the-art VMware NSX infrastructure leveraging L2VPN technology to interconnect different sites.

The Centralized IT HIVE cluster is expected to alleviate the system maintenance, optimize workforce utilization, and provide centralized backups and recovery operations as well as process historian capabilities. In addition, a series of products such as Honeywell Forge Site, SMX, and MSS will significantly improve cybersecurity. Thus, the solution is expected to deliver formidable protection against threats and ensure a long production life.



HollyFrontier Optimizes Control System Configuration with Honeywell Trace™

Charlie Fu, Process Control Engineer, HollyFrontier

Honeywell Trace™ was selected by the HollyFrontier El Dorado refinery as their control system configuration, documentation, and management support system. It offered an effective way to expand the visibility of control configurations while automating the documentation of crucial actions taken by plant personnel. Join this session to understand how HollyFrontier was able to enhance its regulatory compliance, reduce configuration errors, spend less time in project planning, and minimize troubleshooting using Trace.



Phillips 66: Experion Conversion from TDC3000 Using the Full ALTIUS HMI Solution

Patrick Robinson, PhD, Process Controls & Modeling Team Lead, Phillips 66, and Chase Anderson, Project Execution Manager, Lin & Associates

As Phillips 66 Bayway Refinery (Linden, NJ) migrated to Experion from TDC3000, the Lin & Associates ALTIUS Experion HMI solution was leveraged to increase operational effectiveness.

The success of this project was due to the partnership and joint efforts between Honeywell, Lin & Associates (L&A), and Phillips 66. A task analysis including Phillips 66 operators was first completed to review needs and establish site guidelines. L&A and Honeywell developed graphics in the Open Virtual Engineering Platform (OpenVEP cloud- based environment) to increase collaboration and effectiveness.

Site commissioning, acceptance testing, and operator training ensured the solution was used in the most effective manner. Keys successes and lessons learned will be reviewed.



PDO Extends Life of Critical Plant Assets through Timely Upgrade Planning

Omar Al Kindi, C&A System Engineer, PDO

Yibal Government Gas Plant (GGP), located in Northern Oman and operated by Petroleum Development Oman (PDO), went through a major control system upgrade project which included optimization of controller and cabinet footprint, an upgrade of the HPM to Experion/C300, and enhancement of the FTE capacity. Join this session to understand how this implementation helped Yibal GGP drive control system efficiency, retain IP, and enhance life- cycle planning.



BP Mad Dog 2 – How Virtual Factory Acceptance Testing Increased Efficiency and Averted Project Delays

Henry Sun, ICSS Delivery Manager, BP

Industrial operators are well aware that successful production is dependent on both equipment and processes running smoothly. An integrated control and safety system (ICSS) plays an essential role in operating today's increasingly complex manufacturing facilities. Factory acceptance testing (FAT) ensures the ICSS used for data collection, alarm monitoring, supervisory control, and other critical functions is built and operating per design specifications. Technology innovations such as cloud engineering and virtualization allow us to stage entire control systems in the Cloud, accompanied by new, transformative methods of running test procedures. Tune into this session to gain insight on how BP's Mad Dog 2 project used Honeywell technology to transform the way factory acceptance testing was performed for higher efficiencies, reduced risks, and lowered costs.



ALBEMARLE uses smart Honeywell Worker Assist Helmets

Gerhard Nel, IT manager, Albemarle

Join us to discover how Albemarle accelerated the resolution of their field challenges, with an industrial-grade collaborative environment based on remote assistance.

**Green Gases in France: Outlook On Biomethane Injection & Other Green Gases**

Bastien Praz, Biomethane Development Gas Grid Operator, Gaz Réseau Distribution France (GRDF)

Biomethane injection into the gas grid is a mature solution to make the overall gas consumption greener; it is one of the main renewables currently supported by a feed-in-tariff in France.

For GRDF, Biomethane growth is one of the greatest priorities to sustain the gas market share while tackling climate change. Therefore, our 200 000 km of distribution gas pipelines is a key asset to reach a neutral carbon target for the French energy sector by 2050.

This presentation gives an overview of the current Biomethane market in France, which has been very dynamic these past 10 years. It will focus on the main challenges to be met to sustain this growth and the key role of the gas grid operators. The presentation will also include a short focus on the future of H2 and Syngas injection in France.

And there is even more to see! Almost 200 additional sessions will be waiting for you, which vary from 4-minute demos to 20-minute presentations. Plus some fun elements: you can watch anything when it's convenient and choose what benefits you the most.

REGISTER NOW

Thank you to [our sponsors](#), meet our Gold and Silver sponsors at their virtual sponsor exhibit booths during our conference.

SEE YOU ONLINE!