

CONFERENCE SCHEDULER > **DAY 1** < WEDNESDAY 23 OCTOBER 2024

DAY 1	STRATEGIC FORUM <small>SPONSORED BY: ExxonMobil</small>	HYDROGEN PRODUCTION <small>SPONSORED BY: SIEMENS energy</small>	SYSTEMS INTEGRATION & INFRASTRUCTURE <small>SPONSORED BY: Swagelok</small>	FUEL CELL DESIGN, DEVELOPMENT & MANUFACTURING <small>SPONSORED BY: Syrogen</small>	E-FUELS & HYDROGEN PROPULSION	CARBON CAPTURE, UTILISATION, STORAGE & BLUE HYDROGEN
09:00	Chair Welcoming Remarks					Chair Welcoming Remarks
09:05	Hydrogen in Europe and Beyond					
09:10						The Jubail Hub: A CCS Landmark Enabling the Energy Transition
09:20	Looking at the Global Hydrogen Trade					
09:35						Ørsted's Carbon Capture in Denmark
09:50	European Hydrogen's Political Landscape- European hydrogen backbone and funding					
10:00		Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Cost-efficient and low-risk entry into Carbon Capture
10:10	Session Closing Remarks					
10:20		Racing to the start: Creating a Commercially Viable Net-Zero Economy Through H2 Adoption	Hydrogen Fluid System Designs	Advanced Coatings and Collaborations for Asia's Dynamic Hydrogen Market	Accelerating eFuel Projects: Driving Hydrogen and Carbon Economies	
10:25						
10:30	<b>BREAK</b>					<b>BREAK</b>
10:35		Hydrogen/CCUS/P2X - How much is too much?	Turning a greenfield site into an H2 ecosystem	How to ramp up Fuel Cell and Electrolyser production	Concrete Chemicals to decarbonize the cement industry and convert CO2 into renewable chemical products and synthetic fuels	Meeting the Needs of Every Emitter – CCUS Solutions for Today and Tomorrow
10:55						
11:00	Aramco's Approach to Decarbonization & Environmental Sustainability	Decarbonising with Hydrogen	Hydrogen Value Chain	Findings of Fuel Cell MEA Production Research	Synthetic Fuel Value Chain Opportunities and Challenges	
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11:25						Carbon Capture and Heat Recovery in One
11:30	Transitioning to Net Zero	<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>	<b>BREAK</b>	
11:45						The Highland Opportunity – the future of carbon capture and storage in Scotland.
11:50		Compression options for fluctuating green hydrogen production – a technical & economic comparison	Driving the industrial transformation: Hydrogen and its use in the Northern German Living Lab	The role and risks of precious metals in the hydrogen supply chain	Decarbonizing mobility with Hydrogen: a practical option for a fuel driven future	Integrating Carbon Capture with Gas Power
11:55						
12:10	Leadership Roundtable: Hydrogen Project Financing and Market Mechanisms	Air Liquide's Trailblazer 20 MW PEM project - lessons learned from execution and the first year of operation	A feasibility study on the infrastructure required for hydrogen production and export from South Africa to the UK, EU and Japan.	Novel Ru-based PEM Electrolysis Catalyst – Solving the Iridium Bottleneck via Material Innovation	Altitude challenges for H2 powered vehicles	Europe's largest Carbon Capture and Storage project under execution : Air Liquide's Cryocap™
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12:45		Minimizing LCOH with Advanced Proton Exchange Membranes	Panel Discussion: Scale up and acceleration of hydrogen projects	Panel Discussion: What do we need for a successful production ramp up of fuel cells?		
12:50	Chair Closing Remarks					
12:55						
13:00					Panel Discussion: Moving Towards Price Competitiveness	Chair Closing Remarks
13:05		PEM Electrolysers – Understanding & Reducing Degradation Rate				
13:25			Chair Closing Remarks	Chair Closing Remarks		
13:30	<b>LUNCH</b>	Chair Closing Remarks				<b>LUNCH</b>
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13:40					Chair Closing Remarks	
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14:00	Chair Welcoming Remarks		<b>LUNCH</b>	<b>LUNCH</b>		Chair Welcoming Remarks
14:05						
14:10	Industry Trends and Global Overview of CCS				<b>LUNCH</b>	Integrated Approaches to Enable Carbon Capture at Scale
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14:30			Chair Welcoming Remarks	Chair Welcoming Remarks		
14:35	CCUS Strategic Development					
14:40		Chair Welcoming Remarks				
14:45						
14:50		Hydrogen ecosystem in the Port of Hamburg	Decarbonisation through Hydrogen Blending	Meta Review of Hydrogen Fuel Cells for Mobility Applications	Chair Welcoming Remarks	Carbon capture for durable engineered CO2 removals - DACCS, BECCS, and DOC
14:55						
15:00					Hybrid Architecture Innovation	Carbon Reduction Strategies
15:05	Leadership Roundtable: Carbon Management Strategy and Decarbonising Hard to Abate Industries		Switching from Natural Gas to 100% Hydrogen Distribution Grid	Fuel Cells for Passenger and Heavy Duty Trucks		
15:15		Panel Discussion: A focus on ports and their industrial hinterland to kick-start green fuels uptake			The Worlds First Ammonia Driven Vessel	Solid Adsorbent Carbon Capture Technology, Deployment at a US Refinery
15:25			Hamburg Hydrogen Industrial Grid - 'HH-WIN'	Tailor Made: Heavy Duty Fuel Cells and Long-Haul Transport		
15:40					Fuel of the future: Decentral E-Methanol (biofuel) production with hydrogen from Electrolysis and bioCO2 from carbon capture or biogas plants	
15:45	Leadership Roundtable: New CCUS business model ecosystems and their potential to accelerate towards net zero					Panel Discussion: The importance of digitalisation and AI in the lifecycle of a CCUS project
15:50		Panel Discussion: Creating a business case for green hydrogen whilst addressing regulatory uncertainties amidst market ramp-up	Panel Discussion: Green Hydrogen Hub Northern Germany	Panel Discussion: Hydrogen Fuel Cells vs Batteries- Friends or Foes?		
16:05						
16:30	Chair Closing Remarks				Panel Discussion: Decarbonisation Strategies for Marine and Shipping	Chair Closing Remarks
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17:00					<b>END OF DAY</b>	

CONFERENCE SCHEDULER > DAY 2 < THURSDAY 24 OCTOBER 2024

DAY 2	STRATEGIC FORUM SPONSORED BY:	HYDROGEN PRODUCTION SPONSORED BY:	SYSTEMS INTEGRATION & INFRASTRUCTURE SPONSORED BY:	FUEL CELL DESIGN, DEVELOPMENT & MANUFACTURING SPONSORED BY:	E-FUELS & HYDROGEN PROPULSION	CARBON CAPTURE, UTILISATION, STORAGE & BLUE HYDROGEN
09:00	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks
09:10	Identifying Manufacturing Gaps within the Carbon Capture and Hydrogen Supply Chains and their Impact on Project Deployment.	Low-Carbon Fuel From Chemical Looping	Integrated Solutions are a Key for the Optimization of the H2-Value Chain – The Necessity of a Holistic Approach from H2-Generation Equipment up to End User Applications	Production Technology for Bipolar Plates of Fuel Cells and Electrolyzers – Anything but Simple	The future of hydrogen: Hamburg Airports takes major steps towards the energy transition in aviation	Assessing proven technology and necessary modifications to assure effective CO2 dehydration for CCUS hubs to safeguard against corrosion
09:35	Leadership Roundtable: Where will all the hydrogen come from?	The future potential of plasmolysis for the full hydrogen economy	Rail Transportation of Hydrogen and its Derivatives	Multistack testing and sintering in production environments	Airbus' way towards Hydrogen & Fuel Cell Electric Propulsion	Compressors are the spider in the web for the energy transition. Multiple use cases across the industry.
10:00	Leadership Roundtable: International Collaboration-Global Hydrogen Market Outlook	Innovation to Spark Hydrogen and Low Carbon Fuels Adoption	Panel Discussion: How can we make Hydrogen Refuelling Stations work better?	In-situ poisoning: an advanced method for the determination of the impact of organic/inorganic substances on PEM Fuel Cell membranes.	Panel Discussion: The Future of SAFs	An Integrated Offshore CCS Transportation and Storage System
10:15		<b>BREAK</b>				
10:25		Trends in Valve Technology for H2 Production	<b>BREAK</b>	Accurate Fuel Cell Testing by optimized Mass Flow Control	<b>BREAK</b>	Panel Discussion: Assessing the strengths and weaknesses of a multimodal CCUS transport market
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10:55	Leadership Roundtable: The French Hydrogen Economy: Opportunities of Cooperation with the Germany Hydrogen Industry	Innovative measurement technology as a key element for green hydrogen production	Designing the subsea hydrogen network infrastructure as part of the North Sea Energy program	DeCarbonization via Carbon: AvCarb's Electrochemical Carbon Solutions for Hydrogen Technologies	Brazil SynCrude: Sustainable hydrogen production derived from biogas and green hydrogen	<b>BREAK</b>
11:00						
11:10		Decoding the Digital Twin: Navigating Complexity in Electrolysis Technology	AquaVentus – Green hydrogen from offshore wind and the best possible transport of green energy in the German North Sea	Panel Discussion: Automation and Digitalisation for Fuel Cells and Electrolysers	eMethane paving the way to hydrogen economy	Will Europe's CO2 storage sites become a roadblock for emitters?
11:15						
11:20	Leadership Roundtable: Regulations - holding us back, or not limiting us enough?	Panel Discussion: Digitalisation, Automation & AI	H2Verde Project, accelerating marine energies through green offshore hydrogen generation.	Chair Closing Remarks	Chair Closing Remarks	Acid Gas Storage in a depleted gas reservoir – A fit-for-purpose solution to overcome the environmental challenge.
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11:40	Chair Closing Remarks	Chair Closing Remarks	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	Is CCS in the German North Sea feasible? Insights in the German funded Project GEOSTOR
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12:00	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	Chair Closing Remarks
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12:35	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	Chair Welcoming Remarks	<b>LUNCH</b>
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13:40	Leadership Roundtable: The Opportunities and Challenges of Carbon Pricing	Smart management of hydrogen BOG across the large-scale (>100s TPD) liquid hydrogen supply chain	Liquid Hydrogen Benefits for a large-scale Hydrogen economy	Emission free construction sites with fuel cells	Catalyst Requirements for Large-Scale, Centralized and Small-Scale, Decentralized Ammonia Cracking	Low Carbon Hydrogen as Enabler for Decarbonization of Ethylene Crackers
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14:05	Project Skylark: Pioneering Excellence in CO2 Pipeline Safety	Redundancy strategy for system reliability in an interdisciplinary approach as power and water supply for Green Hydrogen Plants	Industrial H2 storage infrastructure - solid state, safe, efficient	A Fuel Cell based solution for natural gas compression emissions reduction, onsite generation and post-combustion CO2 capture and sequestration	Hydrogen Storage to Enhance Green Ammonia Projects	Low Carbon Hydrogen Technology optimization – moving projects forward to achieve Net Zero targets
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14:30	Panel Discussion: Water Requirements and Management for Hydrogen Production Projects	Austenitic Stainless Steels for Hydrogen Applications – Influence of Ti stabilisation and Ni-content	Panel Discussion: The Application of Hydrogen Fuel Cells for Data Centres	Compression Technology as game changer for Green Ammonia Production	Hydrogen production with lowest carbon intensity - HISORP® CC	
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14:55	Leadership Roundtable: Creating More Robust CO2 Storage Regulations	Chair Closing Remarks	Panel Discussion: Cavern Storage	Chair Closing Remarks	Panel Discussion: The Ammonia Value Chain and Market Outlook	Panel Discussion: Determining Blue Hydrogen's Footprint and Role in Decarbonising the Energy Sector
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15:20	Chair Closing Remarks	<b>END OF DAY</b>	<b>END OF DAY</b>	<b>END OF DAY</b>	<b>END OF DAY</b>	
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