

Conference Scheduler **DAY 1** Wednesday 27 September 2023

DAY 1	LOW CARBON HYDROGEN PRODUCTION	SYSTEMS INTEGRATION & INFRASTRUCTURE	FUEL CELL DESIGN, DEVELOPMENT AND MANUFACTURING	E-FUELS AND HYDROGEN PROPULSION	CARBON CAPTURE, UTILISATION AND STORAGE AND BLUE HYDROGEN
09:00 AM	Opening Remarks	Opening Remarks	Opening Remarks	Opening Remarks	Opening Remarks
09:15 AM	The world's energy projects and how hydrogen fits in	The Future Role of Bremen's Ports in Green Hydrogen and PtX	Challenges for PEMFC for higher power applications: Scaling and Durability	Where does the Green Hydrogen for a resilient and successful European Economy come from?	Industry Trends and Global Overview of CCS
09:30 AM	European Union Funding programmes supporting the development of a hydrogen economy	The German Hydrogen Market: On the way to Decarbonisation, Diversification and Resilience	How to get Production of Fuel Cells and Electrolysers done	CO2 free drive with Hydrogen Internal Combustion Engine enabling Fast & Efficient Transportation	Overview of the CCUS projects in Europe: Challenges and Opportunities
09:55 AM	The versatile potential of hydrogen	Hydrogen Ecosystem in the Port of Hamburg	Electrolyser Manufacturing Dynamics and Accelerating Scale Up	The future of hydrogen fuels	CCS scale up - building on Equinor's Experience
10:20 AM	BREAK	EU Hydrogen Strategy - Overcoming Co-ordination and Contracting Challenges	Hydrogen Fuel Cells for large scale power generation plant	CCU routes to decarbonization	Now delivering reliable and affordable CCUS at scale
10:30 AM					
10:45 AM					
10:50 AM	Enabling a hydrogen transformation and economy in the EU	BREAK	BREAK	BREAK	BREAK
11:15 AM	System methodology to achieve lowest levelized cost of hydrogen production	Challenges of Developing Integrated Solutions in a Developing Hydrogen Market	A modular platform approach to future BEV & FCEV production	eFuels: Bottling wind and sun	Accelerating Carbon Capture & Storage (CCS)
11:40 AM	Panel Discussion - The Levelised Cost of Hydrogen	Panel Discussion - Opportunities in the Hydrogen Infrastructure	Panel Discussion - Are fuel cells and batteries competing technologies?	Panel Discussion - The Future of eFuels in Europe	Reducing the carbon footprint with availability MV Drives and high efficiency motors
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12:05 PM					
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12:30 PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
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01:30 PM	Low carbon pathway ammonia cracking technology	New & Repurposed Offshore Pipelines for Hydrogen Transportation	High Power Density Fuel Cell Systems for Commercial Vehicles	Development of a Class 8 Hydrogen ICE Truck - Transient Emissions Performance	LUNCH
01:45 PM					
01:50 PM	Next Generation PEM Electrolysers	Long distance transport of Hydrogen: A Techno-economic comparison of different possibilities	An Innovative and New PEM Fuel Cell R&D Tool Platform	Heavy-Duty Hydrogen Engines for Truc, Marine and Non-Road Applications - Decarbonizing Propulsion Systems	BioCCS/CCU Routes - Case Study BCB
01:55 PM					
02:00 PM	Advanced Membrane Design & Critical factors in Scaling PEM Water Electrolysis systems	Conversion of a large bus fleet to Hydrogen	Design for automation in next gen fuel cells	Cryogenic Hydrogen Storage for Heavy Duty mobility: From station to wheels	CCUS in the Cement Industry
02:10 PM					
02:15 PM	BREAK	BREAK	BREAK	BREAK	BREAK
02:20 PM					
02:25 PM	BREAK	BREAK	Recovery of Raw Materials from end of life Fuel Cells - consequences for the Product Design	Challenges and Benefits of in house Hydrogen test facility	Panel Discussion - CCUS in hard to abate industries
02:30 PM					
02:45 PM	BREAK	BREAK	Precious Metals - Indispensable Elements for Green Hydrogen!	E-Fuels, key to sustainable Fuel availability	BREAK
03:05 PM					
03:05 PM	Methanol: Smarter Hydrogen for decarbonization?	Hydrogen Refuelling Stations	Industrial useable simulation approach for water management analysis in Fuel Cells	Hydrogen Applications for distributed Power	The challenges of connecting capture with storage
03:10 PM					
03:15 PM	Accelerate Green Hydrogen Adoption with Mature Alkaline Electrolysis Technology	Heavy Duty Mobility & Transportation - How to break the Entry Barriers to achieve Carbon Neutrality	Panel Discussion: European Critical Raw Materials Act: How this will impact fuel cell and electrolyser production	Panel Discussion - The compatibility of hydrogen internal combustion engines and fuel cells	Accelerating Subsea Carbon Injection with a lean all-electric control system
03:30 PM					
03:35 PM	Evolution of Proton Exchange Membrane Technology to advance the Hydrogen Economy	Panel Discussion - Hydrogen Safety and Certification	Closing Remarks	Closing Remarks	Desublimation for Carbon Capture
03:40 PM					
03:40 PM	Panel Discussion - Scale up and Industrialization of Hydrogen Projects	Closing Remarks	Closing Remarks	Closing Remarks	Closing Remarks
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04:00 PM	Closing Remarks	ENDING OF SESSION	ENDING OF SESSION	ENDING OF SESSION	ENDING OF SESSION
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05:05 PM	Closing Remarks	ENDING OF SESSION	ENDING OF SESSION	ENDING OF SESSION	ENDING OF SESSION
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Conference Scheduler **DAY 2** Thursday 28 September 2023

DAY 2	LOW CARBON HYDROGEN PRODUCTION	SYSTEMS INTEGRATION & INFRASTRUCTURE	FUEL CELL DESIGN, DEVELOPMENT AND MANUFACTURING	E-FUELS AND HYDROGEN PROPULSION	CARBON CAPTURE, UTILISATION AND STORAGE AND BLUE HYDROGEN
09:00 AM	Opening Remarks	Opening Remarks	Opening Remarks	Opening Remarks	Opening Remarks
09:05 AM	The Dimension of Sustainability in Green Hydrogen Production	Hydrogen Aviation and Airport System Integration - Opportunities & Challenges	Review and future of PVD coating for Fuel Cell and Electrolyzer	Bremen H2 competences for mobility	Accelerating Carbon Capture implementation through Universal Automation
09:30 AM	About Floating Renewable Hydrogen Production	Development of a liquid Hydrogen tank made from thermoplastic composites for trucks, trains ships and aircrafts	Loop Calibration System enabling high Hydrogen mass flow calibration	Gas Fermentation to Sustainable Aviation Fuels	Blue Hydrogen Production: Markets, Technologies, Challenges & Opportunities
09:55 AM	Scaling-up PEM electrolysers - beyond announcements	The importance of Nickel content in 316L Grades	The EKPO NM12 stack module - high performance for heavy duty applications	Panel Discussion - The Future of SAFs	Physical Solvent for Carbon Capture in Large Scale Blue Hydrogen Plants
10:20 AM	BREAK	BREAK	BREAK		BREAK
10:35 AM					
10:50 AM	Using Chemical looping and Oxygen Combustion with Biomass or Waste Fuels to produce negative Carbon Intensity Hydrogen or Steam	Choosing the right fitting solution for small molecule gas	How Ballard achieved DNV type approval and what it means for Marine	Decarbonization strategies for modular maritime heavy duty Hydrogen enabled propulsion systems	Compression Technologies for CO2 Pipelines and Opportunities for using Waste Heat Recovery to improve the economies around Carbon Capture
11:05 AM	Hydrogen from waste, a pragmatic approach	Mixing Skids - The Road to 100% Hydrogen	PEM Fuel Cell retrofit solution for marine industry		MariSynFuel - Synthetic green methanol as maritime fuel for shipping produced in Bremerhaven
11:15 AM					
11:40 AM	Modular System for on site storage of large volumes of Gaseous Hydrogen	Hydrogen's journey from the grid to the electrolyzer	Panel Discussion - Technological Innovations in Fuel Cell Materials and Stack Design	RE-Powering maritime with E-Hydrogen	Metal organic frameworks: Emerging absorbents for post combustion CO2 capture
11:55 AM	Panel Discussion - Water Treatment and it's challenges for Hydrogen Production	Panel Discussion - North meets North Hydrogen dialogue: Strengthening UK - German Hydrogen business collaboration across the value chain	LUNCH		LUNCH
12:15 PM					
12:30 PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:45 PM					
01:20 PM	Technologies of choice to produce the lowest Carbon Intensity Hydrogen	Harnessing fluid properties, maximum heat management and an integrated systems approach to optimise the Net Zero Energy Network	Filtration and membrane around H2 Fuel Cells	Panel Discussion - How the Maritime Energy Transition becomes reality	Heat transfer equipment selection for an optimal absorption/ stripping process
01:45 PM					
02:00 PM	Clean Ammonia value chain and it's market opportunities in Europe	Revolutionizing Hydrogen Compression: Harnessing Low Temperature Waste Heat with Metal Hydride Composite Materials	Leak testing accompanying production from mono plate to Fuel Cell stack	What is the future of E-Fuels in Europe and how to make mega-projects bankable	Oxygen synergy, an opportunity to reduce Carbon Capture and Green Hydrogen project costs
02:10 PM					
02:25 PM	Building blocks for large scale green Hydrogen Production based on pressurized AEL Technology	Optimizing Compressor Packages for different Hydrogen applications	BREAK	BREAK	BREAK
02:35 PM					
02:55 PM	BREAK	BREAK	German Fuel Cell Cooperation: Efficient and Scalable Production Equipment for Bipolar Plates	Large-scale hydrogen production as an enabler for a cost efficient eFuel production - Scaling a 20MW production to +100MW	Costs & Energy Optimised Integrated Solutions
03:00 PM					
03:05 PM	Optimising a sustainable hydrogen economy	Sealing Hydrogen successfully	Reliable serial design and robust production processes for SOFC and SOEC Hot Balance of Plant Systems	Scaling up for a sustainable future: Q Power and P2X Solutions lead the way with Finland's first industrial-scale synthetic methane plant	BREAK
03:20 PM					
03:30 PM	Panel Discussion - Leveraging Digital Solutions for Efficient and Clean Hydrogen Production	Vespel Polyimide parts for critical Hydrogen Wear and Sealing Applications	Materials Testing in Hydrogen Fuel Cell/Electrolyzer - Challenges, Requirements, Solutions	Closing Remarks	Decrease the cost of Direct Air Capture by leveraging existing infrastructure and reach Gigaton removal scale
03:45 PM					
03:55 PM	Closing Remarks	Closing Remarks	Closing Remarks	ENDING OF SESSION	ENDING OF SESSION
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