



EXHIBITION & CONFERENCE
GEORGE R BROWN CONVENTION CENTER | HOUSTON | 17-20 SEPTEMBER 2024

Hydrogen Houston 2024

Accelerating hydrogen's role in the global energy mix

Hydrogen brochure

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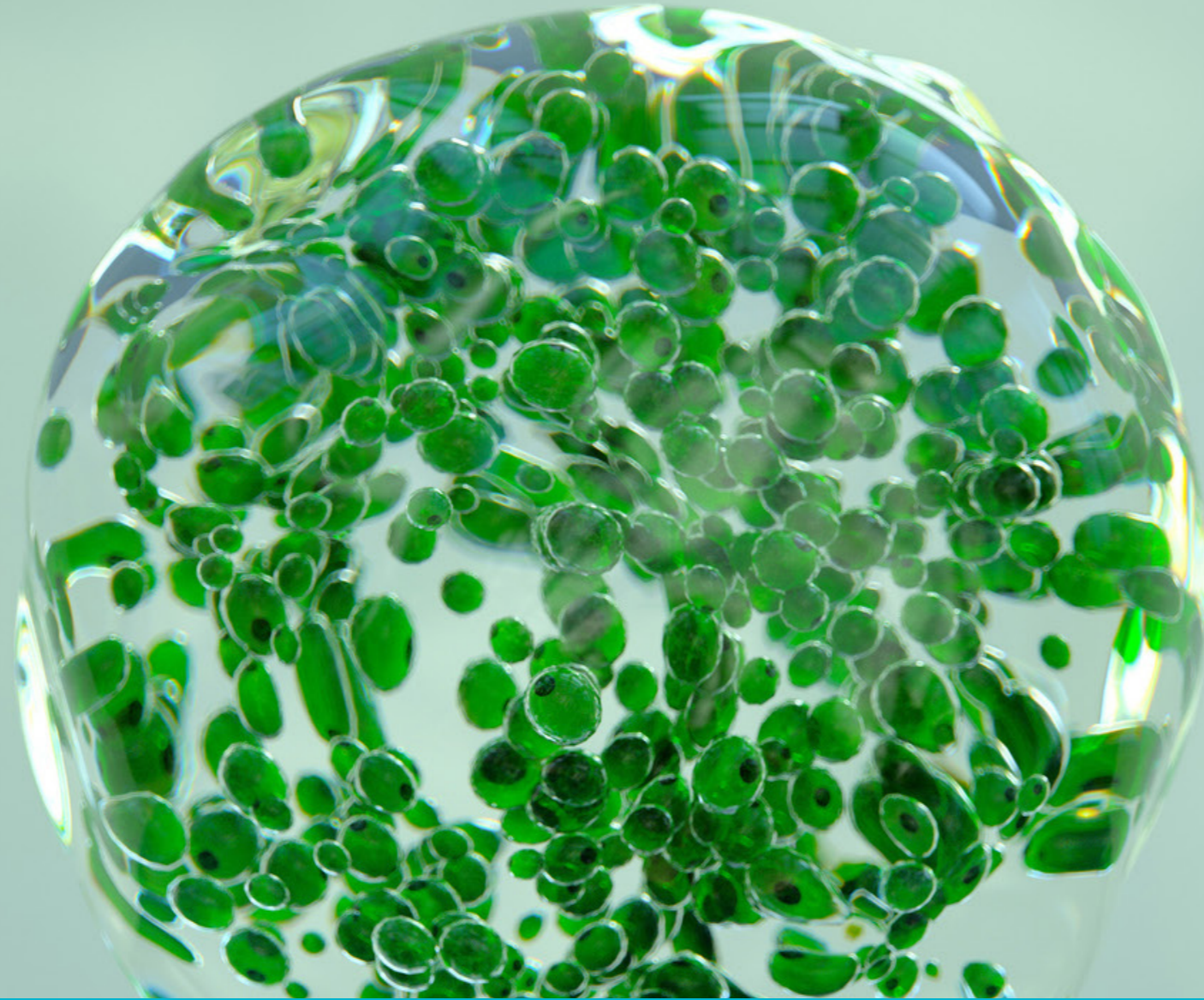


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Decarbonising sectors that are hard to abate will require the adoption of cleaner technologies for its production, thus enabling hydrogen and hydrogen-based fuels to play a significant contribution in the Net Zero Emissions Scenario.

Source: International Energy Agency (IEA)



Elevating hydrogen's role in the global energy mix

After the historic announcement at COP28, we saw a groundbreaking pledge to accelerate low-carbon hydrogen production to help decarbonize the global energy system.

Hydrogen will therefore continue to play a pivotal role in the future clean energy mix, offering a versatile and lower-carbon energy solution that can help make a major contribution to lowering emissions – particularly in areas where emissions are hard to abate, such as heavy industry and long-distance transport.

As global demand for hydrogen continues to grow, opportunities are emerging for new adoption across key markets and industries. Led by the United States and the European Union, global governments and policymakers are introducing new policies and regulatory frameworks to incentivize demand and accelerate low-carbon hydrogen deployment.

Gastech Hydrogen is perfectly poised to drive transformational progress in the energy industry. To transition towards a more sustainable future, the energy industry needs to embrace innovation and invest in hydrogen technology to ensure decarbonized production, drive operational efficiencies and ensure competitive pricing for off-takers. Transport and storage infrastructure development will also be a priority to meet new applications and global demand.

50,000

Attendees

800

Exhibitors

20

International country pavilions

3

Industry zones

500

Ministers and global energy CEOs

1,000

Speakers

5,000

Delegates

125

Countries represented

Our commitment

Gastech Hydrogen, a rapidly-expanding and dedicated exhibition, conference, and networking platform, is at the forefront of transforming the global energy landscape by championing hydrogen as a pivotal element in the journey to net zero.

Gastech Hydrogen will;

Champion hydrogen as a low-carbon fuel

Support the decarbonization drive towards to net zero

Showcase cutting-edge technologies pioneering a more sustainable future

Share leading industry insight to shape policy and support hydrogen development

Bring the global hydrogen industry together to advance this critical sector

Drive finance and capital into hydrogen production to accelerate adoption and progress

Book your exhibition space today
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We are pioneering frameworks that elevate hydrogen's role in the global energy mix, advancing policy and market developments for low-carbon hydrogen deployment, and fostering cross-industry partnerships to scale hydrogen demand.

Gastech Hydrogen will address the following core themes;

Elevating hydrogen's role in the global energy mix

Cultivating policy frameworks for low-carbon hydrogen acceleration

Structuring support for escalating hydrogen's demand across sectors

Mitigating risks in hydrogen supply and infrastructure expansion

Empowering talent as a keystone for hydrogen value chain transformation

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Importance of hydrogen

At COP28, leaders and ministers were clear in their commitment to cut emissions in every sector, accelerate policy action and technology innovation to decarbonize energy supply and demand and to support a transition consistent with limiting global warming to 1.5 degrees. Key pledges included the need to accelerate low-carbon hydrogen production to help decarbonize the global energy system.

Enabling the energy transition

- Decarbonization of industry**
 Hydrogen is one of the few options for many decarbonizing, hard-to-abate industrial sectors, particularly energy sources such as steel, cement, and petrochemicals.
- Transportation and mobility**
 Hydrogen can store and deliver clean energy for many uses across the transportation and mobility sector and has the potential to significantly reduce air pollution.
- Power generation**
 Hydrogen has the potential to facilitate decarbonization of the electric power sector by storing energy produced with renewables, balancing the grid when renewable resources are limited, and electricity demand is high.
- Energy security**
 Hydrogen can bolster energy security by reducing import dependence, by mitigating price volatility and by boosting the flexibility and resilience of the energy system, through diversification.

Overcoming the challenges

Cost of production

Producing renewable hydrogen is more expensive than fossil fuels, with higher costs in hydrogen pipelines, road transport fuel cells, and synthetic aviation fuels, resulting in substantial cost premiums.

Limited infrastructure

Expanding the use of renewable resources from remote locations for hydrogen production necessitates substantial investments in transport infrastructure

Increasing the demand

The absence of a hydrogen trading market and certification schemes results in limited transparency, leading to higher consumer costs, limiting demand for low-carbon hydrogen.

Project financing

In 2022, 680 large-scale hydrogen project proposals, equivalent to US \$240 billion in direct investment through 2030, have been put forward – an investment increase of 50% since November 2021. With further work required to bring more projects to a final investment decision.

Global policy

A shift in policy focus is required, towards comprehensive national strategies, encompassing hydrogen applications, supply, infrastructure, and industrial adoption worldwide.

Achieving scale

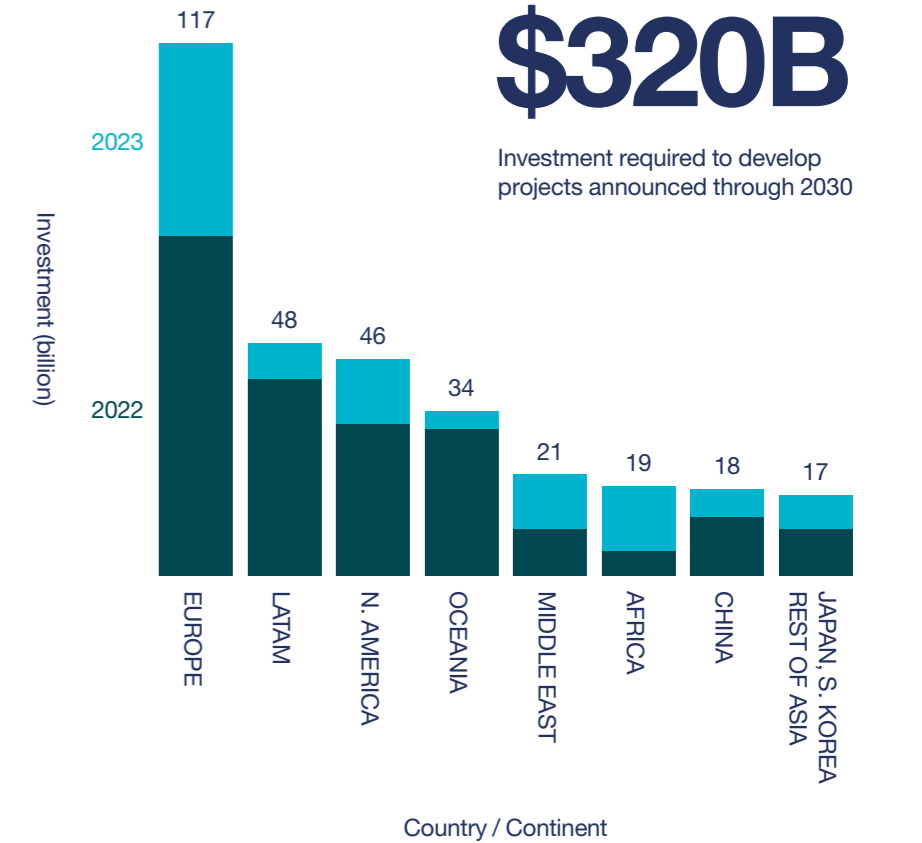
- Demand**
 Projections indicate a substantial surge in global hydrogen demand, reaching 614 million metric tons annually by 2050, constituting 12% of the total energy consumption.
- Trade**
 A quarter of this demand, approximately 150 million tons, is expected to be met through international trade. The challenge lies in ensuring cost-effectiveness in hydrogen transport from low-cost production centers to high-demand regions, where scalability of operations and technology advancements will be vital.
- Adoption**
 The industry's remarkable Compound Annual Growth Rate (CAGR) underscores the ongoing and robust adoption of hydrogen, driven by environmental concerns and the shift towards renewable, low-carbon energy solutions.

US regional clean hydrogen hubs

The United States Regional Clean Hydrogen Hubs Program (H2Hubs) includes up to US \$7 billion to establish six to 10 regional clean hydrogen hubs across America. The H2 Hubs will form the foundation of a national clean hydrogen network that will contribute substantially to decarbonizing multiple sectors of the economy, like heavy industries and heavy-duty transportation.

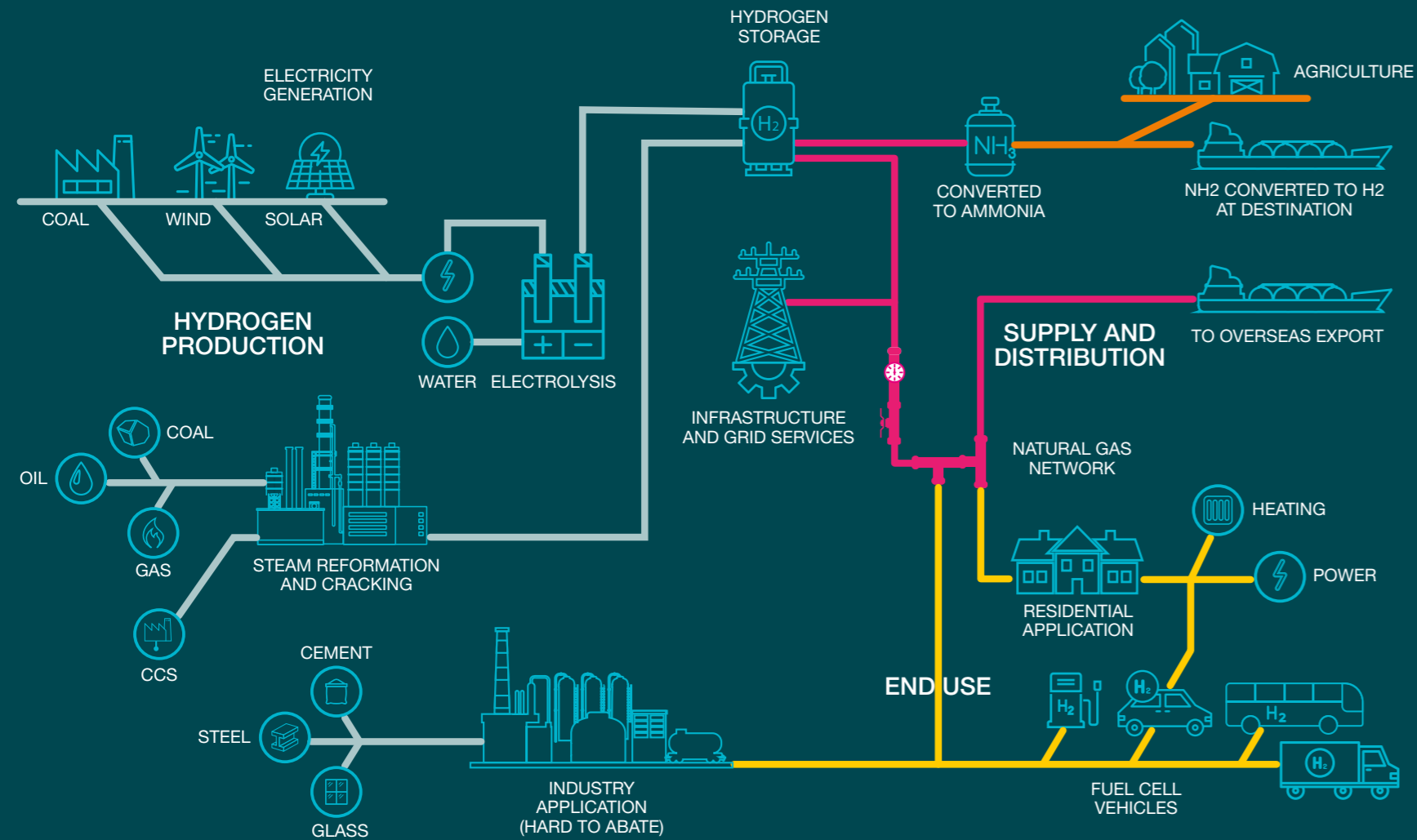
Unlocking investment

For hydrogen to achieve its potential as a crucial decarbonization tool, immediate action is demanded, with foundational investments needed to scale up the hydrogen value chain. Globally, the industry has already unveiled over 1,000 large-scale hydrogen project proposals, that require investments totalling US \$320 billion through 2030.



Harnessing hydrogen's potential

Gastech Hydrogen will support all areas of the hydrogen value chain as it scales up, and becomes an increasingly important part of global energy systems and demand escalates across sectors.



“Clean hydrogen is one of our most versatile tools to slash emissions and forge a carbon-free pathway for a sustainable clean energy future.”

Jennifer M. Granholm
U.S. Secretary of Energy

Gastech Hydrogen demonstrates the roles companies are playing in upscaling, and building the hydrogen economy through:

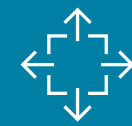
- Fuel cell, and vehicle technology, including industrial vehicles
- Pipeline, cryogenic, and storage technology and manufacturing
- Project, and infrastructure development and build
- Domestic hydrogen technology
- Catalyzation, and chemical technologies
- Industrial hydrogen technology
- Commercial road, and rail transportation
- Investment and de-risking solutions
- Commercial shipping, and marine projects
- Hydrogen blending

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The Hydrogen zone

Gastech Hydrogen brings together experts and visionaries to showcase technological breakthroughs, investment opportunities, and collaborative efforts, accelerating the adoption of hydrogen as an energy solution on a global scale. Gastech Hydrogen provides a platform for discussions, knowledge exchange, and business collaboration to empower hydrogen's integration into the broader energy landscape.

Why exhibit?



Expand your network as demand soars for hydrogen solutions across a wide range of industries. Collaborations between industry and government are essential to establish a robust value chain for grey, blue, and green hydrogen.



Raise your brand awareness and credibility by showcasing your technologies and solutions to an active market committed to hydrogen's role as a low-carbon solution.



Identify new market strategies, scale-up project finance, and discover innovations transforming hydrogen's future role in energy.



Access to the Hosted Buyer program, a platform to connect buyers with Gastech exhibitors, providing an efficient way for decision-makers to meet suppliers. Exhibitors will be invited to submit applications to be included in the Procurement Meeting Place speed networking sessions, taking place in a dedicated meeting place during Gastech.



Generate new business opportunities with 50,000+ attendees from over 125 countries, and develop strategic partnerships to grow your company.

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Who exhibits?

Gastech 2024 will feature over 800 exhibitors from across the energy value chain.

Previous Gastech Hydrogen exhibitors and sponsors include:



Who visits?

Meet face-to-face with project operators, investors, technology providers and policymakers working in the delivery of hydrogen projects, and infrastructure, from across the technical supply chain and from a wide range of end-user industries. Attendees from this sector include:

- | | | | |
|----------------------------|---------------------|------------------------|---------------------|
| Hydrogen producers | Heavy industry | Industrial engineering | Government |
| Fuel cell manufacturers | Steel manufacturers | Offshore energy | Industrial vehicles |
| energy operators/companies | Process industries | Pipeline operators | Maritime |
| Energy and utilities | Petrochemicals | Automotive | Aerospace |

The Hydrogen theater

Championing hydrogen as a low-carbon solution within the future energy mix

The Gastech Hydrogen conference, consisting of a strategic and technical - call for papers led program, focuses on unlocking the full potential of hydrogen as a critical component of the broad energy mix.

As the industry addresses the energy trilemma, hydrogen-based solutions could open the way to utilizing mechanisms to meet energy supply security, decarbonization, and energy access and affordability objectives globally.

In Houston, and globally, policymakers are positioning hydrogen as central to net zero ambitions. With energy demand growing in line with the global population, hydrogen and associated climate technologies will be key to delivering a flexible, multi-source energy future and efficiency solutions.

From implementing evolving policy frameworks to accelerate and derisk low-carbon deployment, to championing the technologies and innovations that will enable transformation across the entire hydrogen value chain, the Hydrogen conference will convene the industry's leading players to discuss the challenges and opportunities of upscaling the global hydrogen economy.



“You can use lower carbon hydrogen for hard to abate sectors. The key right now is driving demand and making sure that hydrogen is available, reliably low cost and safe.”

David Burns, Vice President of Clean Energy, Linde

Hydrogen leaders who have previously spoken at Gastech include:

 Axel Wietfeld Chief Executive Officer Uniper Hydrogen	 Michèle Azalbert Chief Hydrogen Officer Gentari	 Hiroki Kobayashi Chief Executive Officer IHI Asia Pacific Pte	 Carsten Poppinga Chief Commercial Officer Uniper	 Dr. Samir J. Serhan Chief Operating Officer Air Products	 Paddy Padmanathan Co-Founder & Vice-Chairman Zhero	 Ayla Majid Founder & CEO Planetive	 Toshiyuki Sakamoto Board Member, Director The Institute of Energy Economics, Japan	 Katan Hirachand CEO & Chief Country Officer Société Générale India	 Øystein M. Kalleklev CEO Flex LNG & Avance Gas
 Hironobu Watanabe Managing Executive Officer, Chief Executive of Energy Division NYK Line	 Gavin Rennick President of New Energies SLB	 Thorbjörn Fors President Commissioner, SVP & Managing Director - Asia Pacific Siemens Energy	 Justin Murphy SVP, Corporate Strategy & Business Development ADNOC	 Grete Tveit SVP – Low-Carbon Solutions Equinor	 Melanie A. Kenderdine Principal, EVP Energy Futures Initiative	 Mohammed Ahmed EVP Gas, Power & New Energy NNPC Ltd	 Valerie Ruiz Domingo Group Vice President - Hydrogen ENGIE	 David Burns Vice President - Clean Energy Linde	 Jane Liao Vice President CPC Taiwan
 Jason Crusan Vice President - New Energy Growth & Solutions Woodside Energy	 Austin Knight Vice President, Hydrogen Chevron New Energies	 Vinay Khurana Vice President - Hydrogen Market Technip Energies	 Juancho Eekhout Vice President, Business Development Sempra Infrastructure	 Jane Toogood National Hydrogen Champion UK Government & Chief Executive of Catalyst Technologies Johnson Matthey	 Andreas Bieringer Director of Business Development & Commercial – Green Hydrogen Masdar	 Molly Iliffe Global Head of Hydrogen Baringa	 Margaux Moore Head of Energy Transition, Research & Venture Investments Trafigura	 Hyung Chul Lee Head of Hydrogen Solutions Division POSCO International	 Ryo Chishiro Senior Manager - Hydrogen, Strategy Division Kawasaki Heavy Industries, Ltd.

Elevating hydrogen's role in the global energy mix

The Gastech Hydrogen conference is at the forefront of transforming the global energy landscape by championing hydrogen as a pivotal element in the net zero journey.

This year's program will focus on:

- Elevating hydrogen's role in the global energy mix
- Cultivating policy frameworks for low-carbon hydrogen acceleration
- Structuring support for escalating hydrogen demand across sectors
- Mitigating risks in hydrogen supply and infrastructure expansion
- Empowering talent as a keystone for hydrogen value chain transformation

Register as a delegate today
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NEW for 2024 - The Hydrogen Hub

In addition to regular exhibition space, and available to start-ups and SMEs only, these carefully curated exhibition stand packages offer prime positioning within the Gastech 2024 Hydrogen zone, ensuring maximum exposure to a global audience.

Three reasons to exhibit:

- Prominently position your brand and products as a key solution for the Hydrogen industry, raise brand awareness and credibility at the forefront of the Hydrogen revolution.
- Proactively attract diverse potential clients, investors and partners from across the Global and domestic US energy market.
- Effectively connect with existing stakeholders and customers all in one place.

Book your Hydrogen Hub exhibition space today
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EXHIBITION PACKAGE

- ✓ 4m2 Exhibition Pod
 - ✓ Exhibitor passes
 - ✓ Access to the lead retrieval tool
- ✓ 10-minute presentation in the Hydrogen Hub on exhibition floor
- ✓ Detailed showcase in our online start-up and SME listing
 - ✓ Logo and company description contained within
 - ✓ Product showcase
 - ✓ Downloadable brochures
- ✓ Inclusion in Procurement Hub speed networking sessions with procurement leads from major energy companies

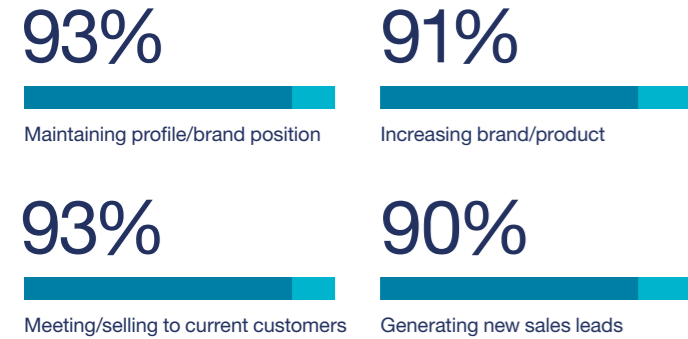
PREMIUM START-UP

- ✓ 9m2 Shell Scheme Stand
 - ✓ Exhibitor passes
 - ✓ Access to the lead retrieval tool
- ✓ 10-minute presentation in the Hydrogen Hub on exhibition floor
- ✓ Enhanced showcase in our online start-up and SME listing
 - ✓ Logo and company description contained within
 - ✓ Product showcase
 - ✓ Downloadable brochures
- ✓ Inclusion in Procurement Hub speed networking sessions with procurement leads from major energy companies

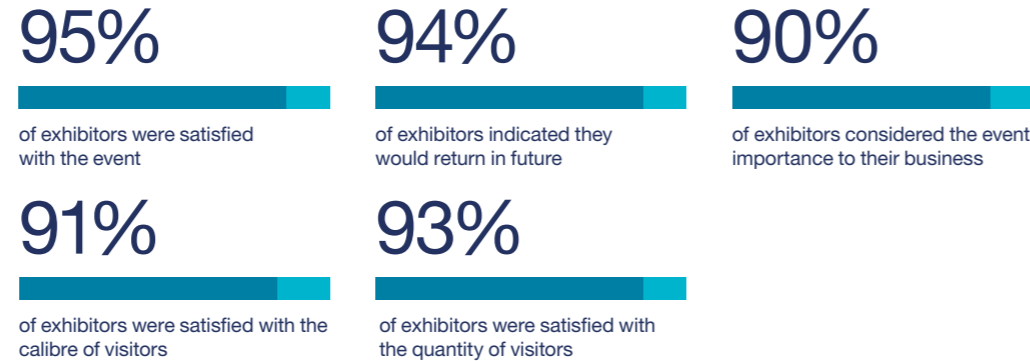
Maximising ROI for your business

More than 800 exhibiting companies participate at the Gastech exhibition. Supported by many of the world's leading energy professionals, strategists and policymakers, Gastech hosts a comprehensive range of solution providers covering the entire natural gas, LNG, hydrogen, climate technologies, and low-carbon solutions energy value chain.

Objectives met



Overall satisfaction and event importance



Purchasing power

Gastech 2024 brings together energy professionals with strong decision-making power, with more than 85% of attendees being a budget-holder, decision-maker, or influencer. It will be an excellent opportunity for the global energy industry to accelerate business deals over the four-day event.

Knowledge sharing

The Gastech Conference hosts 800+ speakers, including 300+ Ministers and global energy CEOs from around the world. Hydrogen will be a key theme and focal point of the main strategic conference, as well as having a dedicated Hydrogen theater enabling a global energy ecosystem to discuss best practice use-cases and strategies essential for your business to thrive.

International perspective

Welcoming 50,000+ attendees from 125+ countries, your company will be well positioned within international markets and the global energy industry over the four event days. The Gastech Exhibition includes over 20 international country pavilions where attendees can come together to unlock new hydrogen business deals worth millions of dollars.

Sponsorship opportunities

Position your company, brand, and thought leaders at the forefront of the hydrogen industry, where you will have an unparalleled opportunity to influence the world's leading players from across the gas, hydrogen, and low-carbon solutions value chain, conduct business, and forge new partnerships.

Why sponsor?

- Meet business objectives**
 Branding and sponsorship at Gastech includes bespoke, tailor-made packages, and 'off the shelf' solutions to meet your marketing requirements. Digital business coupled with tangible sponsorship options will support you in meeting your company's business objectives.
- Demonstrate innovative approaches**
 Position your company as a leader in innovation. Use sponsorship opportunities to make your case, and demonstrate your products and solutions.
- Generate business opportunities**
 With over 50,000 attendees from over 125 countries, this is a major opportunity to gain access to new markets, and develop strategic partnerships to grow your business.
- Become a thought leader**
 Position your business as industry experts and thought leaders to build trust and confidence with energy industry decision-makers and buyers.
- Build brand awareness**
 Raise the profile of your brand by positioning your company image front and centre at the world's largest natural gas, LNG, hydrogen, low-carbon solutions, and climate technologies event in 2024.

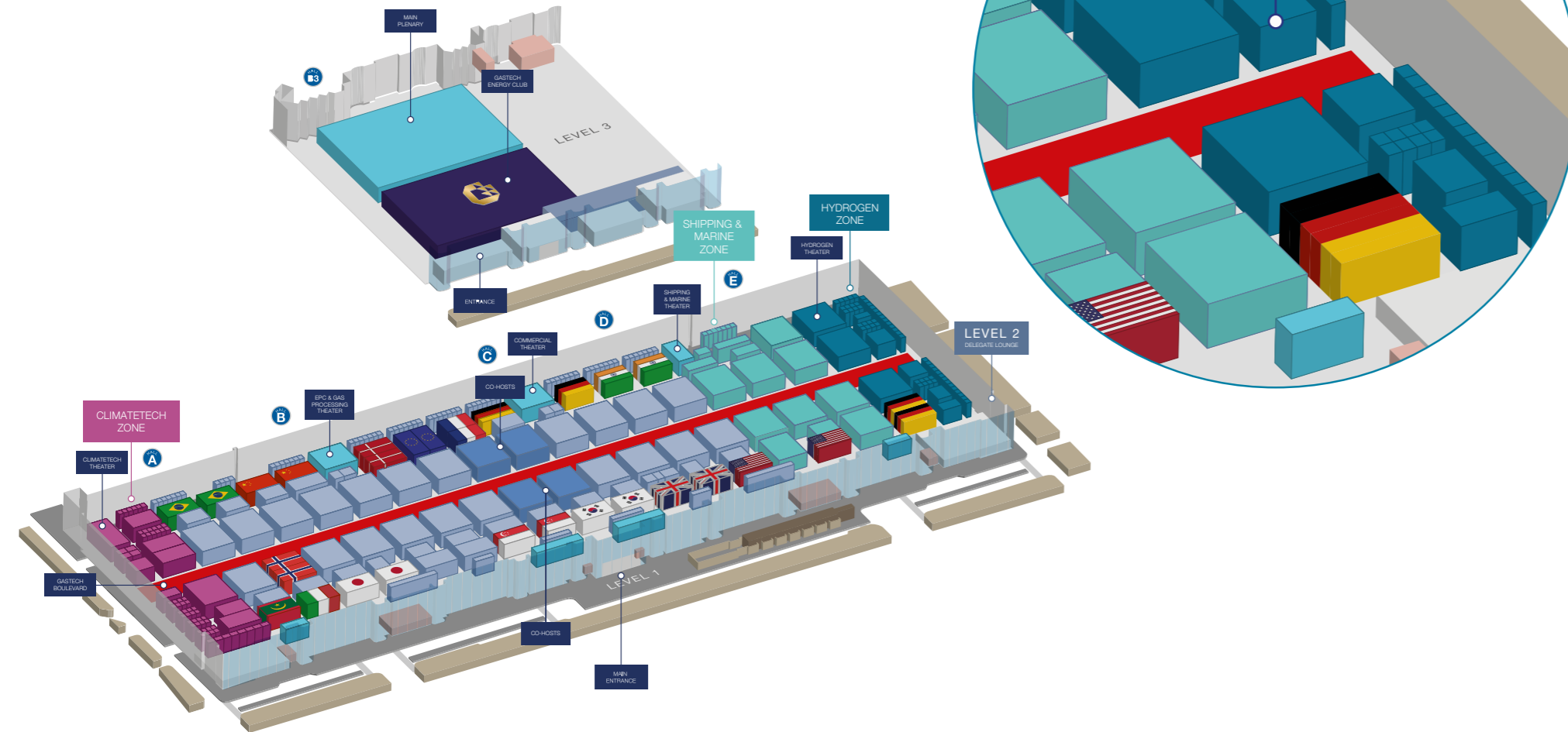
Find out more about sponsorship opportunities today
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Gastech 2024 floorplan

More than 800 exhibitors, showcasing the best, most innovative solutions across the gas, LNG, hydrogen and climate technologies industries.

Gastech facilitates the networking opportunities needed and the investment required to enduringly transform the energy landscape together.



Additional industry zones at Gastech 2024

The Gastech 2024 exhibition will provide the perfect setting for 800+ exhibitors from across the entire value chain to showcase their goods and services. Gastech has a track record of generating billions in dollars of contracts and provides an exceptional opportunity for participants to explore the latest solutions, services, and technologies that will increase efficiencies, reduce carbon emissions, and enhance business performance.

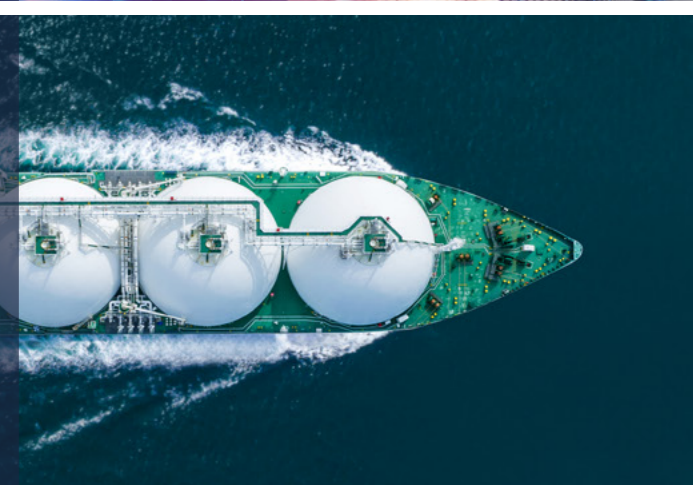
Climatetech zone

A dedicated Climatetech zone will showcase the latest developments in carbon capture, direct air capture, sustainable fuels, carbon movement and storage systems, alongside digital technologies including artificial intelligence, emissions monitoring, analytics, remote sensing, and geographic information systems.



Shipping and Marine zone

LNG infrastructure, shipping, and marine resources have been stretched by recent high demand for new supply sources and mechanisms for delivery. This zone showcase expertise in ship building, ship to ship transfer, terminal infrastructure and decarbonization technologies, alongside spotlighting how marine services, logistics, and transportation of freight can be achieved in a environmentally responsible way.





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