

# Hydrogen Council

## Hydrogen Council Adds Fourteen New Members Including Bankers, Engineers, Industrials and Energy Companies, Confirming Wide-Ranging Interest in Hydrogen

*Newly Expanded Group of 120+ Companies to Be Co-Led by CEOs of Cummins and Air Liquide*

**Brussels, 12 July 2021** – The Hydrogen Council, a global CEO-led coalition working to accelerate the energy transition through hydrogen, has today announced fourteen new members. The organisation now counts 123 companies from across the globe representing a variety of sectors – from utilities, chemical producers, energy companies and engineers to mobility providers and bankers, among others – all committed to scaling up the hydrogen value chain to contribute to a clean and diversified energy system. The new members are welcomed by a new team of Co-chairs, with Cummins Chairman and CEO Tom Linebarger joining incumbent Co-chair Benoît Potier, Chairman and CEO of Air Liquide.

The Hydrogen Council now includes four new steering members: **Abu Dhabi National Oil Company (ADNOC), Honeywell, Sasol, and Wood**; eight new supporting members: **cellcentric, Howden, Indian Oil Corporation, John Cockerill, Komatsu, MAN Energy Solutions, Parker Hannifin Corporation, and TÜV SÜD**; and two new investors: **Barclays** and **FiveT Hydrogen**. Existing member SMBC moves from the supporting member category to the group of investors. The new members are based across Europe, Middle East, Asia, and North America, and integrated energy and chemical company Sasol is the first South African company to join the Council.

The companies joining the Council today show how hydrogen ecosystems are rapidly expanding to involve a wide variety of sectors active in hydrogen production, distribution, or different end uses. Barclays and FiveT Hydrogen – new additions to the Council’s investor group – exemplify the continued investor appetite for clean energy solutions.

As the Hydrogen Council’s membership grows to more than 120 companies, the coalition announces a change in leadership, with Tom Linebarger, Chairman and CEO of Cummins, becoming Co-chair of the organisation next to Benoît Potier, Chairman and CEO of Air Liquide, and Co-chair since the launch of the Council in 2017. Tom Linebarger takes over the role from Takeshi Uchiyamada, Chairman of Toyota Motor Corporation, whose two-year mandate has come to an end, but who will remain an active member of the Board of the Hydrogen Council.

*“We are delighted to welcome new members to the Hydrogen Council, coming from a wide range of geographies and sectors,”* said **Benoît Potier**, Chairman and CEO of Air Liquide and Co-chair of the Hydrogen Council. *“Their joining confirms that the interest in hydrogen is coming from across many sectors of the economy, and is turning into a priority for actors committed to energy transition. I look forward to working alongside Cummins as new Co-chair to foster dialogue and collaboration in order to accelerate the development of a low carbon economy.”*

**Tom Linebarger**, Chairman and CEO of Cummins and new Co-chair of the Hydrogen Council, added: *“It’s encouraging to see major economies around the world advance clean energy technologies, and I’m especially proud that the United States is pushing forward with new policy initiatives to support the scale-up of hydrogen. As the new Co-chair of the Hydrogen Council, I’m eager to work with all of our members to accelerate hydrogen deployment globally through strong international partnerships.”*

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## About the Hydrogen Council:

The Hydrogen Council is a global CEO-led initiative that brings together leading companies with a united vision and long-term ambition for hydrogen to foster the clean energy transition. The Council believes that hydrogen has a key role to play in reaching our global decarbonisation goals by helping to diversify energy sources worldwide, foster business and technological innovation as drivers for long-term economic growth, and decarbonise hard-to-abate sectors. Using its global reach to promote collaboration between governments, industry and investors, the Council provides guidance on accelerating the deployment of hydrogen solutions around the world. It also acts as a business marketplace, bringing together a diverse group of 120+ companies based in 20+ countries and across the entire hydrogen value chain, including large multinationals, innovative SMEs, and investors. The Hydrogen Council also serves as a resource for safety standards and an interlocutor for the investment community, while identifying opportunities for regulatory advocacy in key geographies. To find out more visit [www.hydrogencouncil.com](http://www.hydrogencouncil.com) and follow us on Twitter [@HydrogenCouncil](https://twitter.com/HydrogenCouncil) and [LinkedIn](https://www.linkedin.com/company/hydrogencouncil).

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## About our new members:

### Steering Members

**Abu Dhabi National Oil Company (ADNOC):** ADNOC is a leading diversified energy and petrochemicals group wholly owned by the Emirate of Abu Dhabi. ADNOC's objective is to maximise the value of the Emirate's vast hydrocarbon reserves through responsible and sustainable exploration and production to support the United Arab Emirates' economic growth and diversification. To find out more, visit: [www.adnoc.ae](http://www.adnoc.ae).

**Honeywell:** Honeywell ([www.honeywell.com](http://www.honeywell.com)) is a Fortune 100 technology company that delivers industry-specific solutions that include aerospace products and services; control technologies for buildings and industry; and performance materials globally. Our technologies help aircraft, buildings, manufacturing plants, supply chains, and workers become more connected to make our world smarter, safer, and more sustainable. For more news and information on Honeywell, please visit [www.honeywell.com/newsroom](http://www.honeywell.com/newsroom).

**Sasol:** Sasol has pioneered the commercial application of the Fischer-Tropsch technology since the early 1950s producing synthetic fuels and high value chemicals. This pioneering spirit has resulted in Sasol being recognised as a global technology and innovation leader. We are now well positioned to deliver clean energy solutions to the world as we embrace the energy transition and the hydrogen economy. We will develop green hydrogen projects in South Africa and globally with partners both for own use and industry players as we decarbonise our operations. Globally we will deploy bespoke PtX technology solutions to produce sustainable fuels and chemicals as an integrated player.

**Wood:** Wood is a global leader in consulting and engineering across energy and the built environment, helping to unlock solutions to some of the world's most critical challenges. We provide consulting, projects and operations solutions in more than 60 countries, employing around 40,000 people.

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## Supporting Members

**cellcentric:** cellcentric develops, produces and commercialises fuel cell systems for use in heavy-duty trucks as the primary focus, as well as other applications. cellcentric is a joint venture of Daimler Truck AG and the Volvo Group AB formed in 2021 and takes advantage of the expertise and extensive experience from several decades of development work on fuel cells at its predecessor companies. cellcentric's ambition is to become a leading global manufacturer of fuel cells, and thus help the world take a major step towards climate-neutral and sustainable transportation by 2050. More than 300 highly skilled employees drive our highly advanced fuel cell technology further. They work in interdisciplinary teams at locations in Nabern, Untertürkheim, Esslingen and Burnaby (Canada). Around 700 individual patents have been issued, underlining the leading role played by the company in terms of technological development.

**Howden:** Howden is a leading global provider of mission critical air and gas handling products, and has built the largest hydrogen compression solutions in the world for a number of key applications. We enable our customers' vital processes which advance a more sustainable world. Howden has the knowledge and expertise to handle and optimise hydrogen across the value chain from production, storage, distribution through to end use. We intend to continue working globally with a diverse set of partners and customers on exciting hydrogen-related projects and solutions, including the world's largest hydrogen refuelling station, the world's first eFuel plant and the world's first fossil-free steel plant. Joining the Hydrogen Council we commit to continue using innovation and technology to help create a more sustainable future and are looking forward to collaborating with the Hydrogen Council members in delivering global energy transformation.

**Indian Oil Corporation:** Indian Oil Corporation Ltd., being the country's leading Fortune 500 Public Sector Undertaking, has been pioneering the hydrogen programmes in India for the past two decades. As a firm believer of the hydrogen economy, IndianOil with its vision to emerge as "Energy of India" is expanding its presence beyond the boundaries of conventional fuels. Through state-of-the-art hydrogen and fuel cell facilities, IndianOil is currently executing cutting edge research, development and demonstration projects across the value chain of hydrogen production, storage, supply and applications. Moving ahead, by building strong partnerships with key members of the Hydrogen Council, IndianOil is set to accelerate its journey towards a net zero paradigm.

**John Cockerill:** The John Cockerill Group develops large scale technological solutions to meet the needs of our time and contribute to the decarbonisation of human activities, whether it is a question of developing new production capacities of electricity from renewable energies, to store green electricity or to optimise the energy efficiency of existing power plants and industrial equipment. Thanks to its electrolyzers, with the largest capacities in the world - from 5 to 1000 Nm<sup>3</sup>/h - it meets the growing hydrogen needs of the mobility, industrial and energy markets. Today, John Cockerill is positioned as the world leader in Hydrogen with 70MW sold in 2020, or 20% market share and already 1000 references around the world. Therefore, the Group is making its technological contribution to the fight against climate change.

**Komatsu:** Komatsu mainly manufactures and sells construction and mining equipment, utilities, forest machines and industrial machinery, and celebrated its 100<sup>th</sup> anniversary in May 2021. Komatsu has worked to maximise its corporate value, i.e. the sum total of the trust given to the company by all its stakeholders, as it has remained committed to Quality and Reliability, and aims to realise "safe, highly productive, smart and clean workplaces of the future". Also, Komatsu believes hydrogen can play a key role in increasing the diversity of the energy system, and is therefore engaged in internal studies on all aspects of the utilisation of hydrogen to power construction and mining equipment, including its production, storage, transportation and, most of all, safety.

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**MAN Energy Solutions:** MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. We see great potential in the hydrogen and Power-to-X technology. MAN Energy Solutions is already a forerunner in Power-to-X technology: In 2013, the company commissioned the methanation reactor for Europe's most powerful Power-to-Gas plant. Today, we cover all processing steps of the hydrogen economy under the umbrella of MAN Energy Solution – from electrolysis to transport and storage of green hydrogen to its conversion into synthetic fuels.

**Parker Hannifin Corporation:** Parker has and continues to engage in the development of products and systems supporting the generation of hydrogen, storage, transfer, and use of hydrogen on vehicles. Our interconnected portfolio of motion and control technologies includes sealing, fluid conveyance, connectors, thermal management, pumps, valves, electronic controls and other solutions that enable our customers to reduce resource consumption and emissions and accelerate progress toward a carbon neutral future.

**TÜV SÜD:** TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. More than 24,000 employees work at over 1,000 locations in about 50 countries to continually improve technology, systems and expertise. Over more than 150 years, we have added value to our partners and customers through a comprehensive portfolio of testing, certification, auditing and advisory services. TÜV SÜD has experience over the whole value chain of hydrogen, from production through transportation and storage to the different end applications in sectors like industry, mobility or energy. Over the past decades our experts have accompanied numerous successful and innovative hydrogen projects and have participated in numerous international standardisation bodies, projects and commissioning procedures to drive harmonisation.

## Investors

**Barclays:** As a British universal bank committed to Net Zero, we see Hydrogen as one of the key solutions to climate change. We interact with our clients on Hydrogen via our leading Research house, our top-tiered Corporate & Investment Bank including through our Sustainable and Impact Banking team banking Hydrogen technology providers, and through our well-known Unreasonable Impact Accelerator.

**FiveT Hydrogen:** FiveT Hydrogen is the world's first pureplay clean hydrogen private investment and asset manager. Its mission is to finance the foundations of the hydrogen economy – starting with a greenfield infrastructure fund targeting EUR1B+. It was launched by an experienced team of world-class hydrogen and financial executives and is dedicated to delivering clean hydrogen infrastructure projects at scale. We believe that clean hydrogen - an energy carrier, created with close to zero carbon emissions - will transform and decarbonise the world's economy, creating a material value-creation opportunity.

**SMFG:** Sumitomo Mitsui Financial Group, SMBC Group, is one of the Japanese major financial group. We have been actively working in hydrogen sector in pursuit of a sustainable society. We invest in Mirai (meaning "future" in English) Creation Fund I & II in order to provide funds for companies and projects that use the most advanced technologies for a hydrogen-based society. We launched the Japan Hydrogen Association ("JH2A"), a new organisation that promotes global collaboration toward the realisation of a hydrogen society. We are one of the founding members of the Hydrogen Utilization Study Group in Chubu region (central region of Japan) to build a hydrogen supply chain with demands

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enough. We also have a strong global track record in project finance for renewable energy development.