

Press Release · Pressemitteilung

Green hydrogen as a pillar for a climate-neutral future Opening shot for the H2EXPO & CONFERENCE at the Hamburg Exhibition Centre

Hamburg, April 7th 2022 – Opening shot for the innovative H2 EXPO & CONFERENCE, the new international forum dealing with the production, distribution and utilisation of green hydrogen, parallel to WindEnergy Hamburg, the leading global trade fair for the wind industry. Over four days, from September 27th to 30th, the Hamburg Exhibition Centre will for the first time be hosting an event dealing with everything about the future of the energy transition involving green hydrogen.

Key players and hidden champions from the sector will be expected, who will present exciting innovations and products and provide information about solutions and developments with many applications. Locations such as Hamburg with its Hamburg Renewable Energies Cluster (EEHH), Hamburg Invest and Hamburg Marketing shall also present their strategies for the energy transition. Bernd Aufderheide, CEO of Hamburg Messe und Congress, stressed: “A successful energy transition will only be achieved through the comprehensive use of renewable energies. Green hydrogen is the future buzzword that will make the decarbonization of industry with affordable energy tangible. With the H2EXPO & CONFERENCE, we are providing a stage for the growing hydrogen economy, while also showing that combining environmentally-friendly technologies can provide affordable energy for all areas of our daily lives.”

Green hydrogen as an energy source for mobility, heating and industrial production is one of the central elements on the path to climate neutrality. The expansion of renewable energies needs speeding up to ensure that the federal government's goal of climate neutrality by 2045 can be met. The motto of the leading trade fair WindEnergy Hamburg 2022 is "It's time to put the climate first", and is much more than just a call for action for Germany and Europe. A multifaceted industrial sector with major growth potential is emerging worldwide. A Goldman Sachs study published in February of this year found that green hydrogen might help decarbonize up to 15 percent of global greenhouse gas emissions. The sales volume in this particular market segment is expected to double to approximately USD 250 billion by 2030 and to increase to more than USD 1 trillion by 2050.

The market potential is enormous. But it can only be realised if well-founded engineering know-how, project developer expertise and start-up power meet a willingness to invest by state and private sector actors. Cross-border cooperation will also provide ample opportunities for globally transforming energy markets, and will also create secure energy supplies. At the H2EXPO & CONFERENCE in Hamburg in September, a separate hall will be dedicated to the production,

transport and use of hydrogen on land and at sea. At the same time, a four-day conference programme will invite all the fair's visitors to expand their knowledge of these topics.

Green hydrogen is obtained by electrolysis, the energy requirements of which can be met by renewable energies such as solar or wind energy. One example of the large-scale production of green hydrogen from wind power is currently being developed off the German North Sea coast. This is where the AquaVentus funding association is driving forward a ground-breaking project. By the year 2035, 10 gigawatts of generating capacity are to be generated using offshore wind energy. This energy shall also ensure the operation of electrolysis plants to drive the production of green hydrogen, and these are also being built at sea. If everything goes according to plan, up to one million tons of green hydrogen will be produced between Heligoland and the Dogger Bank in the near future, which will then be transported to land via pipelines which are also being built. Internationally leading, highly innovative companies and research institutions are involved in this project.

This comparatively young business area of regenerative hydrogen production is being accompanied by a considerable increase in know-how, which is also providing impetus to other technologies for storage or use of electricity in other ways. Power-to-X (P2X) refers to technologies that convert electricity from renewable energy sources into other energy carriers. This might include synthetic fuels that are excellent for storage and which burn with little or no environmental impact. These may be utilised where green petrol, diesel or kerosene will still have to be used instead of fuel cells in the foreseeable future.

H2EXPO & CONFERENCE - the networking event of the international hydrogen economy

The H2EXPO & CONFERENCE, which will be held from September 27th to 30th 2022, parallel to WindEnergy Hamburg (the leading global trade fair for the wind industry), will become an international meeting place for everything related to the production, distribution and utilisation of green hydrogen. An attractive networking platform shall be erected over four days in Hall A2 at the Hamburg Exhibition Centre. Here, players from business and politics shall trade information about the latest trends and the future of the international hydrogen economy in networking areas and side events. H2 technology providers from all over the world shall present their products, solutions, innovations and projects. Top speakers from politics, science and business are also expected to speak on the conference stage about topics such as regulation, technologies, and the future of green hydrogen. Further information can be found at [H2 EXPO & CONFERENCE - WindEnergy Hamburg](#) linkedIn

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