

Press Release

Schaeffler at Connecting Green Hydrogen Europe 2024, Booth H24

Schaeffler presents solutions for the industrial production of green hydrogen

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- 1 MW PEM Electrolysis Stack as highlight
- Green hydrogen to support the energy transition
- Establishment of industrial series production in Herzogenaurach

Schaeffler will present its innovations for the production of green hydrogen at the Connecting Green Hydrogen Europe trade fair from June 25 to 27, 2024, in Madrid, Spain. The event will take place at IFEMA Madrid and will bring together experts and decision-makers from the hydrogen industry to discuss the latest trends and technologies. Schaeffler will showcase its new 1 MW Proton Exchange Membrane (PEM) electrolysis stack at its booth.

Schaeffler's PEM stacks, which feature a power rating of up to 1,000 kilowatts, are currently being introduced to the market. They can produce up to 500 kilograms of high-purity hydrogen per day.

"We provide key systems and components to make hydrogen technology future-proof. Our PEM electrolysis stacks are crucial sub-systems for a sustainable and efficient hydrogen production," says Florian Windisch, Head of Hydrogen at Schaeffler Bearings & Industrial Solutions.

Schaeffler is committed to a CO₂-neutral, sustainable future and also recognizes the enormous potential of green hydrogen in this context. The Motion Technology Company considers the entire spectrum of applications – from the industrial production of green hydrogen via electrolysis to the use of hydrogen in fuel cells for both mobile and stationary applications, and even the production of green steel.

System integration for decentralized and centralized hydrogen production

The Schaeffler PEM electrolysis stacks are versatile and suitable for various industrial applications. By arranging the stacks in so-called arrays, Schaeffler can offer to the market flexible and powerful solutions ranging from 50 kW to multi-megawatt scales.

Industrialization expertise for scaling up the hydrogen economy

"Our long-standing industrialization expertise helps us turn innovations into efficient series production, thereby contributing to the creation of the conditions and capabilities necessary for scaling up hydrogen technology," says Florian Windisch. At Schaeffler's headquarters in Herzogenaurach, the industrial series production of stacks is currently being established.

With its core competencies in precise forming, joining and coating technology, and automated assembly technology by using processes and standards applicable for mass production, Schaeffler focuses on key pre-requisites for hydrogen technology.

Schaeffler Group – We pioneer motion: The Schaeffler Group has been driving forward groundbreaking inventions and developments in the field of motion technology for 80 years. With innovative technologies, products, and services for electric mobility, CO₂-efficient drives, chassis solutions and renewable energies, the company is a reliable partner for making motion more efficient, intelligent, and sustainable – over the entire life cycle. Schaeffler describes its comprehensive range of products and services by means of eight product families: From bearing solutions and all types of linear guidance systems through to repair and monitoring services. Schaeffler is with around 110,000 employees and more than 250 locations in 55 countries, one of the world's largest family-owned companies and one of Germany's most innovative companies.

MW-class PEM (Proton Exchange Membrane) electrolysis stack in a test rig. Photo: Schaeffler

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PEM electrolysis stack assembly line, Herzogenaurach, Germany. Photo: Schaeffler (Daniel Karmann)

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