

Finland's First Green Hydrogen Production Plant Will Run on Sunfire's Electrolysis Technology



Harjavalta, March 22, 2022 | Finnish forerunner of green hydrogen and Power-to-X technologies P2X Solutions has revealed big plans: a 20 MW electrolyzer from Sunfire will produce Finland's first green hydrogen.

Green hydrogen is one of the most promising solutions of the decade to decarbonize industrial processes. Also in Finland, first steps are being taken towards a cleaner future: P2X Solutions, the Finnish pioneer in green hydrogen and Power-to-X technology, will build Finland's first green hydrogen production plant in Harjavalta.

The electrolysis technology for producing the green hydrogen will be manufactured and delivered by Sunfire – one of the world's leading electrolysis companies. The pressurized alkaline electrolyzer will have a capacity of 20 MW and is planned to be delivered 2023. The commercial operation of the hydrogen plant will start in 2024.

*"We are proud to contribute to P2X Solutions' lighthouse project with our alkaline electrolysis technology," says **Sunfire CEO Nils Aldag**. "As forerunner of green hydrogen technologies in Finland, P2X lays a decisive foundation for the country's energy transition. At Sunfire, we strive to partner with first movers like P2X Solutions who will accelerate the expansion of innovative cleantech in Europe."*

Sunfire's pressurized alkaline electrolyzer runs on renewable energy and splits water into hydrogen and oxygen. The German company, also well-known for its innovative high-temperature SOEC electrolyzers, has successfully implemented electrolysis projects all over the world. Sunfire's pressurized alkaline technology operates at a pressure of 30 bar(g) and is considered one of the most reliable electrolysis solutions on the market.

*"The emergence of the hydrogen market will play a significant role in achieving emission reduction targets and increase energy self-sufficiency in Finland," says **Herikko Plit, CEO of P2X Solutions**. "For our green hydrogen plant in Harjavalta, we need reliable electrolysis technology – this is why we chose Sunfire. Our goal is to further process some of the green hydrogen into renewable synthetic*

fuels, such as synthetic methane.”

The pioneering project is supported by the Finnish government: the Ministry of Employment and the Economy and the Finnish Climate Fund have granted EUR 36 million. In total, P2X Solutions is planning an investment of approximately EUR 70 million.



About P2X Solutions

P2X Solutions is a Finnish pioneer in green hydrogen and Power-to-X technology. We are accelerating the rise of the hydrogen market holistically and innovatively in all areas of the value chain. We operate as a producer and distributor of green hydrogen and synthetic fuel, and we deliver hydrogen plants in a customer-oriented manner, if necessary, on a turnkey basis. We will make the world cleaner – together.

More information at www.p2x.fi

Picture (from left to right):

Björn Kraemer (Senior Manager Project Management Electrolysis Sunfire), Wolf Thyssen (Director Technical Sales Sunfire), Herkko Plit (CEO P2X Solutions), Ilkka Taka-aho (Project Director P2X Solutions),

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About Sunfire

Sunfire is a global leader in the production of industrial electrolyzers based on pressurized alkaline and solid oxide (SOEC) technologies. With its electrolysis solutions, Sunfire is addressing a key challenge of today's energy system: Providing renewable hydrogen and syngas as climate-neutral substitutes for fossil energy. Sunfire's innovative and proven electrolysis technology enables the transformation of carbon-intensive industries that are currently dependent on fossil-based oil, gas, or coal. The company employs more than 650 people located in Germany and Switzerland.

For more information visit www.sunfire.de