SIEMENS

Press

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Lighthouse project in Wunsiedel spotlights future of energy

Siemens commissions one of Germany's largest green hydrogen generation plants

- **Hydrogen generation plant with electrical capacity of 8.75 megawatts opened in Wunsiedel**
- **Facility to generate 1,350 tons of hydrogen a year and cut CO_2 emissions by about 13,500 tons**
- **Opening attended by Bavarian Minister-President Markus Söder and Siemens Managing Board member Matthias Rebellius**
- **Siemens is technology and financing partner**

In Wunsiedel, Upper Franconia, one of Germany's largest green hydrogen generation plants has been planned digitally and commissioned by Siemens, demonstrating the key role hydrogen can play in Germany's energy future. Around one year after the official groundbreaking ceremony, Bavaria's Minister-President Markus Söder, Siemens Managing Board member Matthias Rebellius and Siemens Financial Services CEO Veronika Bienert handed over the plant to the operating company WUN H2, represented by Managing Directors Thilo Rießner and Philipp Matthes.

Up to 1,350 tons of green hydrogen can now be generated annually from renewable solar and wind power in the Wunsiedel Energy Park. Hydrogen is generated by an electrolyzer – with a total capacity of 8.75 megawatts – from Siemens Energy's latest and most powerful product line. The "Silyzer 300" is based on proton exchange membrane (PEM) technology, which is optimally suited for operation with renewable energies. The hydrogen will be used primarily in the region's industrial and commercial enterprises, but also in road transport. With this amount of hydrogen, 400 40-ton hydrogen-powered trucks could – assuming a regional distance of 150 kilometers per day – drive for an entire year without emitting any

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CO_2. By using the hydrogen generated in Wunsiedel and the related replacement of fossil fuels, annual CO_2 emissions can be cut by up to 13,500 tons.

As general contractor, Siemens Smart Infrastructure is responsible for the construction of the hydrogen plant and the creation of an intelligently monitored and controlled power grid. The customer for green hydrogen is the regional business community – encompassing everything from the glass and ceramics industry to transport companies, automotive suppliers and the neighboring sawmill. The hydrogen will be distributed by truck trailers on a decentralized basis to end customers mainly within a radius of around 150 to 200 kilometers (Northern Bavaria, Thuringia, Southern Saxony and Western Bohemia). In addition, following the construction of an H_2 filling station at the Wunsiedel Energy Park, scheduled for completion in 2023, the regional fleet of commercial vehicles can be decarbonized.

"With global warming, energy dependency and rising costs becoming increasingly pressing issues, real-world solutions for the future of energy are crucial," said Matthias Rebellius, Managing Board Member of Siemens AG and CEO of Smart Infrastructure. "The Wunsiedel project is an excellent demonstration of how vision and initiative combined with the right technology and financing can drive forward the development of a carbon-free power supply."

Siemens Financial Services is supporting the project with an intelligent financing concept and holds a 45 percent stake in the operating company WUN H2. Rießner-Gase, located in Lichtenfels also holds a 45 percent stake and the utility company Stadtwerke Wunsiedel (SWW) the remaining 10 percent.

"Future-oriented projects need a solid financing basis," said Veronika Bienert, CEO of Siemens Financial Services, the financing arm of Siemens AG. "In Wunsiedel, we teamed up with an external lender, the UmweltBank in Nuremberg, to implement the first non-recourse project financing – in other words, financing without counter-liability to the shareholders – for such a plant in Germany and thus demonstrate the project's economic feasibility."

In Wunsiedel, the energy transition is already a reality. The energy used by the community of 10,000 is 100 percent climate neutral. Wunsiedel also generates its

own electricity and heating. The hydrogen generation plant will be linked to Siemens' existing battery storage facility and with neighboring industrial enterprises, which can use – for example – its waste heat or the oxygen split off during electrolysis. Hydrogen also plays a major role in Germany's decarbonization strategy to make transportation, steel production and the chemical industry carbon-neutral, since it can be used to implement many processes previously dependent on fossil fuels, without releasing CO_2 in the reconversion into energy. Hydrogen is also an important storage provider for renewable energies. By 2030, 10 million tons of green hydrogen are to be generated annually in the European Union alone.

With the commissioning of the hydrogen generation plant, the commercial production of the energy source H_2 in Wunsiedel will begin. Talks regarding the expansion of the plant's capacity to 17.5 megawatts are already underway.

This press release and press pictures are available at
https://press.siemens.com/global/en/feature/wunsiedel-gets-good-stuff

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In fiscal 2021, which ended on September 30, 2021, the Siemens Group generated revenue of €62.3 billion and net income of €6.7 billion. As of September 30, 2021, the company had around 303,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. SI creates environments that care. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2021, the business had around 70,400 employees worldwide.

Siemens Financial Services (SFS) – the B2B financing arm of Siemens – provides financing that makes a difference. At SFS, we empower customers around the globe to access technology with purpose and increase their competitiveness. Based on our unique combination of financial expertise, risk management and industry know-how we provide tailored financing solutions – including flexible leasing and working capital products, project-related and structured financing, corporate lending, equity investments, finance advisory, as well as trade and receivables financing. With highly experienced and passionate teams in 20+ countries, SFS paves the way for industrial productivity, smart infrastructure and sustainable mobility, facilitating the energy transition and enabling high-quality healthcare. Supporting the Siemens DEGREE framework, SFS is one of the leading providers in financing greenfield renewable projects. www.siemens.com/finance.