



Press release

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New force in the green energy transition

Romande Energie, SolydEra and Zwahlen & Mayr team up for PRHYSM to raise the profile of green hydrogen in Switzerland

PRHYSM will produce green hydrogen for use on the same industrial site, contributing to the national effort to reduce greenhouse gases. The production plant, located in the town of Aigle, is expected to be operational in 2025. This example of circularity in action is one way in which industry can lessen its burden on the environment.

The PRHYSM project (“PRoduction of green HYdrogen for clean Steel and Metallurgy”) is a decarbonisation venture that will produce green hydrogen precisely at the point of use, in the town of Aigle. The process is based on the high-performance electrolysis of water powered by solar energy generated in situ. This will significantly reduce the carbon footprint associated with Zwahlen & Mayr’s use of hydrogen and create space for innovating and reducing the carbon intensity of Swiss industry. The project will also enable Romande Energie to bring a new ground-mounted solar farm into service.

Romande Energie’s plan for a sustainable future

The Romande Energie Group, a major force in the Swiss energy sector, offers innovative sustainable solutions for navigating the green energy transition and its challenges. As part of its plan to make Western Switzerland a net zero region, the Group is helping promote smart uses of hydrogen, which has high potential to reduce carbon intensity. Mindful of this, the Group is offering solutions to customers downstream in the value chain, with a focus on green hydrogen to supply the regional ecosystem.

SolydEra’s advanced technology

SolydEra SA, based in Yverdon-les-Bains, is a leading innovator in hydrogen technologies. It provides the high-temperature electrolysis materials and the expertise required to design and implement solutions for producing green hydrogen. Z&M will be able to produce hydrogen in situ efficiently and sustainably by harnessing this advanced technology. SolydEra’s input in the project underscores the importance of innovation in transitioning to a low-carbon economy.



Zwahlen & Mayr's drive to make Swiss industry less carbon intensive

Zwahlen & Mayr SA is a Swiss company known for its high quality welded, redrawn and seamless stainless-steel tubes and steel constructions. PRHYSM will be located on Zwahlen & Mayr's Aigle production plant as part of efforts to reduce its environmental impact and further innovation in Switzerland to support the green energy transition.

Official support

The PRHYSM project partners are proud to receive the support of the Swiss Federal Office of Energy and Vaud Canton's Business and Innovation Unit, signalling the trust and commitment they are showing towards this venture.



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Federal Office of Energy



Service de la promotion
de l'économie et de
l'innovation (SPEI)

A virtuous partnership

This green hydrogen partnership is structured as a contracting solution, with the gas produced from photovoltaic electricity for use in situ. The process is designed to produce 20 tonnes of hydrogen annually for 15 years. SolydEra's solid oxide electrolyser technology offers extremely high energy efficiency, with the possibility of recovering waste heat from ZM's industrial process. This focus on circularity and industrial environmental action is particularly close to the hearts of the three companies involved.

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Romande Energie at a glance

The Romande Energie Group, the leading electricity supplier in Western Switzerland, is a mainstay in the domestic energy industry. It offers a range of sustainable solutions for the distribution and generation of electricity as well as energy services, including energy efficiency and e-mobility solutions. All of its generation assets are powered by renewable energy sources. Through this, its innovative services and its sustainability policy, the Group is helping customers, investors and employees to achieve ever-improving standards of living. Romande Energie works every day to provide its customers with the high quality of service and security of supply they expect and to help them make the transition to more sustainable forms of energy to reduce the carbon intensity of Western Switzerland.

For more information, visit www.romande-energie.ch

SolydEra at a glance

SolydEra is a global leader in solid oxide cells, stacks and solutions.

Driven by a commitment to efficiency and innovation, SolydEra embodies the core values that advance the energy transition towards a cleaner, more sustainable future. In Italy, where it is headquartered, SolydEra operates the largest industrial fuel-cell stack production facility in Europe. It also has R&D subsidiaries strategically located in Switzerland, Australia and Italy, maintaining its position at the forefront of the global energy revolution. As a testament to its success, thousands of its cells are already in use in more than 22 countries clocking up more than 70 million hours in operation.

SolydEra is a pioneer in low-carbon energy, committed to paving the way towards a more resilient and prosperous energy future for generations to come.

For more information, visit www.solydera.com

Zwahlen & Mayr at a glance

Zwahlen & Mayr is a leader in steel construction and a mainstay in the production of stainless-steel tubes, under the ZM TUBES brand.

Its range of high-performance products include welded tubes that guarantee robustness and unrivalled precision through their manufacturing process. Zwahlen & Mayr has been expertly manufacturing redrawn tubes for decades, supplying the quality and absolute precision for which Switzerland is known.

The recent diversification into seamless tubes testifies to its commitment to innovation and safety. The new high-pressure tube line, designed for unrivalled versatility, represents the latest technological advance.

At the same time, the company continually invests in specialised human resources and state-of-the-art infrastructure to ensure the efficient management of large-scale construction projects.

For more information, visit <https://zwahlen.ch/>