

Hy₂Market



Creating the Hydrogen Market for Europe

The Hy2Market project is off to a strong start in 2025, driving innovation across Europe's hydrogen value chain. In this edition, we highlight key developments, including the installation of a hydrogen pipeline in Deventer — an important step in expanding the regional hydrogen transport infrastructure. We also showcase groundbreaking efforts in Upper Austria, where the region's Hydrogen Valley is shaping the future of industrial applications. Additionally, we explore the industrial use of hydrogen, showing how Hy2Market partners are integrating hydrogen into hard-to-abate sectors to reduce emissions and increase sustainability. Finally, we feature the newly released Techno-Economic Analysis of Renewable Methanol Production at Gigawatt Scale report, offering valuable insights into cost-effective pathways for scaling up renewable fuels. Stay connected with us on [LinkedIn](#) for the latest updates and developments.

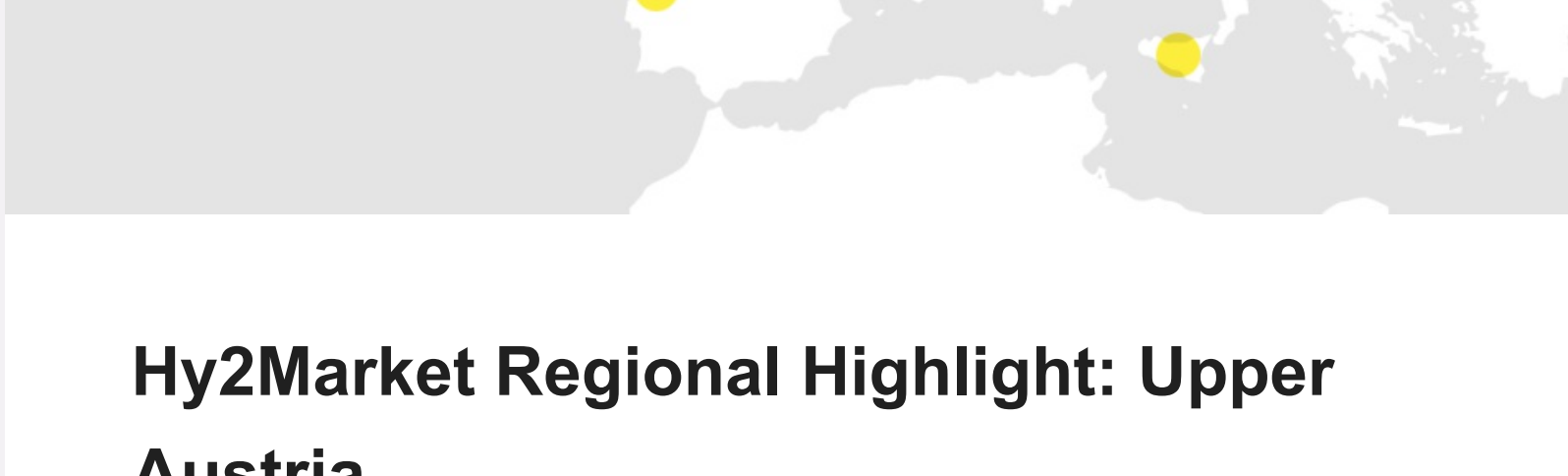
Latest News



Hydrogen Pipeline Installed in Deventer, Netherlands

Exciting progress is underway in Deventer, where a new hydrogen pipeline has been installed as part of the Hy2Market project. Developed by SoluForce®, this high-pressure Flexible Composite Pipe (FCP) offers a cost-effective and permeation-free solution for hydrogen transport. The pipeline, realized in collaboration with Firan and the GROHW project, will connect a local tubetrailer bay, a future 2.5 MW electrolyzer, and industrial off-takers via a planned local hydrogen grid. This initiative supports the region's transition to a sustainable hydrogen economy while contributing to hydrogen infrastructure advancements across Europe.

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Region
Upper Austria

Activities
H₂ production
H₂ as feedstock

Partners
WIVA P&G
K1-MET
Montan Universität Leoben
Austrian Institute of Technology
Business Upper Austria
Voestalpine
Prozess optimal
Verbund

Hy2Market Regional Highlight: Upper Austria

Upper Austria is emerging as a key hydrogen innovation hub within the Hy2Market project, and is leading the newly launched Large-scale Hydrogen Valley, HI2 Valley. With eight dedicated project partners, the region is advancing hydrogen applications across sectors like steel and ammonia while pioneering research in underground hydrogen storage. WIVA P&G leads industrial hydrogen use and knowledge exchange efforts, while K1-MET GmbH and Montanuniversität Leoben focus on reducing steel production emissions at a demo plant at the voestalpine Stahl GmbH site in Linz. Prozess Optimal CAP GmbH develops process simulations, and AIT is researching hydrogen integration in industrial furnaces. VERBUND ensures high-quality green hydrogen supply, while Business Upper Austria drives knowledge transfer and coordinates the final project conference. Upper Austria's innovative approach is shaping Europe's hydrogen economy and supporting ambitious decarbonization goals.

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Industrial Use of Hydrogen in Hy2Market

Hydrogen is a key enabler for decarbonizing energy-intensive industries, and within the Hy2Market project, partners are actively exploring its role as both an energy source and a feedstock to reduce carbon emissions and enhance sustainability. The project brings together key regional partners to develop innovative hydrogen applications, repurpose existing infrastructure, and support industrial transformation.

Key Areas of Focus:

- Hydrogen as an Energy Source – Hydrogen is being tested as a replacement for fossil fuels in furnaces, thermal plants, and industrial facilities. Work is underway to convert coal power plants to hydrogen and develop hydrogen-powered burners to support cleaner industrial processes.
- Hydrogen as an Industrial Feedstock – Green hydrogen is being explored as a sustainable alternative to fossil-based feedstocks in industries such as ammonia, cement, and synthetic fuel production, as well as in refineries and petrochemical plants to lower carbon emissions.
- Boosting Regional Innovation – The project is engaging small and medium-sized enterprises (SMEs) in hydrogen technology, fostering economic growth and local expertise in the emerging hydrogen economy.
- Shaping Europe's Industrial Transformation – By standardizing best practices and sharing knowledge, the project aims to accelerate hydrogen adoption across industries and create a blueprint for industrial decarbonization.

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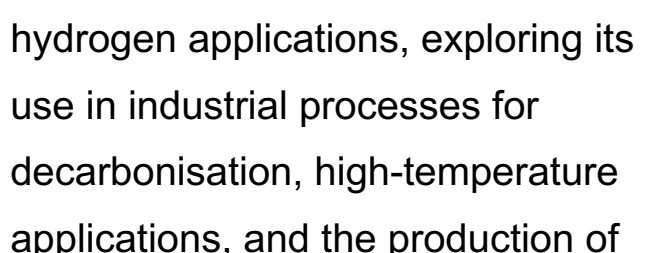


Deliverable 4.81: Techno-Economic Analysis of Renewable Methanol Production at Gigawatt scale—utilizing Green Hydrogen for Direct CO₂ Hydrogenation

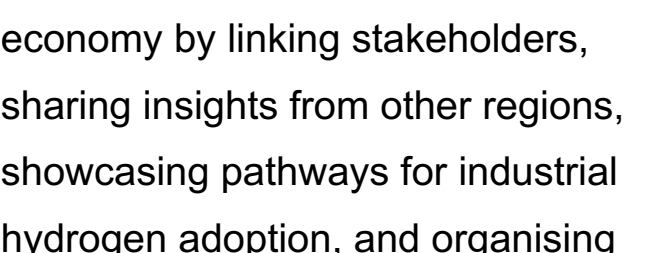
The latest Hy2Market report, developed by the AIT Austrian Institute of Technology, explores the feasibility of large-scale renewable methanol production. With industries like aviation and chemicals requiring sustainable alternatives where electrification falls short, this study examines how green hydrogen and CO₂ hydrogenation can enable cost-effective methanol production at gigawatt scale. Key insights include dynamic system modeling, the role of renewable energy sources like wind and solar, and the challenges of large-scale hydrogen storage. The report highlights a breakthrough—production costs dropping below €1000/ton—bringing renewable methanol closer to widespread adoption.

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Meet the Hy2Market Project Partners



The Austrian Institute of Technology (AIT) is driving innovation in green hydrogen applications, exploring its use in industrial processes for decarbonisation, high-temperature applications, and the production of renewable methanol through advanced modeling and system analysis.



Business Upper Austria is helping shape Upper Austria's hydrogen economy by linking stakeholders, sharing insights from other regions, showcasing pathways for industrial hydrogen adoption, and organising the Hy2Market Final Conference.

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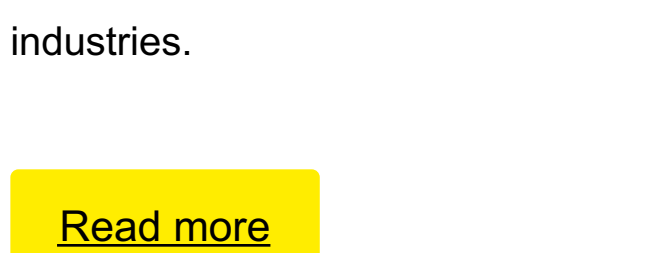
K1-MET GmbH focuses on investigating Carbon Capture and Utilization (CCU) technologies to demonstrate a closed carbon cycle in the steel industry, aiding in the decarbonization of energy-intensive industries.



Montan Universität Leoben supports the transition to a low-carbon future by integrating a methanation pilot plant in the Linz steelworks to convert green hydrogen and CO₂ into synthetic natural gas.

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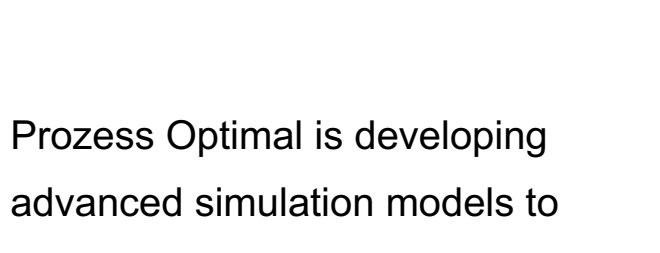
Prozess Optimal is developing advanced simulation models to optimize hydrogen-based processes, supporting industrial decarbonization and system efficiency.



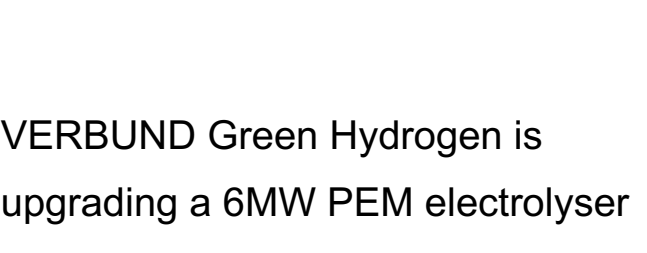
VERBUND Green Hydrogen is upgrading a 6MW PEM electrolyser to produce ultra-pure hydrogen, supporting industrial decarbonization and fuel cell applications.

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voestalpine Stahl GmbH plays a key role by upgrading its 6MW PEM electrolyzer system in Linz with purification and drying units to produce high-quality hydrogen for fuel cell applications and other industrial uses.



WIVA P&G drives hydrogen projects in hard-to-defossilize energy-intensive sectors in Austria and its neighboring countries, advancing hydrogen production, industrial applications, and integration into the European hydrogen economy.

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