



AdvancedH2Valley Project receives a €8.9 million grant from the EU to foster the Western France hydrogen transition

Nantes, 06 March 2024 – The 18 members of the AdvancedH2Valley consortium are proud to announce that their project has received an 8.9 million euros grant from the European Commission through the Clean Hydrogen Joint Undertaking, and its call HORIZON-JTI-CLEANH2-2023-1, to showcase advanced green hydrogen valley in Western France. Based in the French Loire Valley, AdvancedH2Valley project aims to foster the Atlantic area's energy transition and set the standard for clean, green, and renewable hydrogen. The Kick-off meeting occurred on 22-23 January 2024 in Nantes, France, with the participation of all consortium's partners, coordinated by Lhyfe.

With secured funding from the EU - mainly dedicated to the uses and distribution of the hydrogen, AdvancedH2Valley unfolds across strategic locations in Western France. The project aims to introduce up to **11.5MW of new production capacities**, in addition to the 1 MW pioneer unit already in operation, and **innovative processes**, including deploying one of the **first hydrogen truck fleet** in the country, **H2 maritime applications, harbour logistics** and hydrogen **light commercial vehicles** including **taxis**. Among its ambitious objectives, the project envisions producing **over 1 600 t/y of green and renewable hydrogen by 2028**. Aligned with the EU's Renewable Energy Directive, it establishes **two new public Hydrogen Refueling Stations** in addition to the 5 stations already in operation and a **tailored supply chain**, contributing significantly to the region's sustainable energy goals and massification of the uses.

Beyond the environmental impact, AdvancedH2Valley seeks to be a catalyst for positive change, becoming an **integral part of the local community, fostering collaboration and knowledge-sharing among neighbouring regions**.

The beneficiary members of the consortium are: Lhyfe (France, coordinator), EnR44 (France), Teréga Solutions (France), Hyliko (France), Département de Loire-Atlantique (France), SAS Terminal du Grand Ouest – TGO (France), Fraikin France (France), Zamenhof Exploitation (France), Hype (France), Fundacion Tecnalía Research & Innovation (Spain), Université D'Orleans (France), Université Bretagne Sud (France), Warrant Hub Spa (Italy), Automobile Club de l'Ouest (France).

The associated partners are: Région des Pays de la Loire (France), Angers Loire Métropole (France), Région Normandie (France), Conférence des Régions Périphériques Maritimes d'Europe (France).

MORE INFO: www.advancedh2valley.eu



ABOUT THE MEMBERS OF THE CONSORTIUM

About Lhyfe

Lhyfe is a European group devoted to energy transition, and a producer and supplier of green and renewable hydrogen. Its production sites and portfolio of projects intend to provide access to green and renewable hydrogen in industrial quantities and enable the creation of a virtuous energy model capable of decarbonising entire sectors of industry and transport.

In 2021, Lhyfe inaugurated the first industrial-scale green hydrogen production plant in the world to be interconnected with a wind farm. In 2022, it inaugurated the first offshore green hydrogen production pilot platform in the world. In 2023, it inaugurated its second and third sites, and currently has several sites under construction or expansion across Europe. Lhyfe is represented in 12 European countries and had 195 staff at the end of December 2023. The company is listed on the Euronext market in Paris (ISIN: FR0014009YQ1 – LHYFE). [Lhyfe.com](https://www.lhyfe.com)

[Click to access the Lhyfe Media Kit \(press kit and visuals\)](#)

About Warrant Hub S.p.A. – Tinexta Group

Warrant Hub S.p.A. – Tinexta Group has been active since 1995, growing over the years to become a leader in its sector today. Warrant Hub Business Units work in synergy with its Innovation Lab to give their clients the best support tools for the success of their business initiatives and to assist them in the preparation and management of strategic projects: business projects, research projects, training, and technology transfer activities, under National and International support frameworks. The European Funding Development (EFD) team provides consultancy, training, and support on EU-funding opportunities, and in the preparation, negotiation, and management of European proposals, particularly on Horizon Europe calls.

[WarrantHub.it](https://warranthub.it)

About EnR44

Created in May 2018, SEM EnR44 (formerly SYDELA ENERGIE 44), aims to support, develop and operate projects dedicated to the production and resale of renewable energies in the Loire-Atlantique region, with and for communities.

The objective is to support and enable communities to be actors in the energy transition of their territory by relying on a trusted partner, administered by local elected officials.

About Teréga Solutions

Teréga Solutions is a subsidiary of Teréga. Teréga is a true accelerator of energy transition and for more than 75 years has deployed its exceptional expertise in the development of gas transport and storage infrastructures and now designs innovative solutions to address the major energy challenges in France and Europe. The Teréga Group shareholders include SNAM, Pacific Mezz Luxembourg (GIC), Ouest Gaz (EDFInvest), Predica (CAA) and Crédit Agricole Assurances Retraite (CAA).

About Hyliko

Hyliko is the first zero-emission mobility platform for road haulage. The Hyliko offer includes hydrogen vehicle rental, associated fleet management services (maintenance, & repair), access to a hydrogen fuelling network and carbon footprint monitoring services. Hyliko also offers personalised support and a pay-as-you-go scheme for rapid deployment, tailored to the needs of road haulage professionals.

www.hyliko.com

About Département de Loire-Atlantique

The Department of Loire-Atlantique is a local authority. Loire-Atlantique is the 1st department of Pays de la Loire by his population (1,445,171 inhabitants at the last census) and the 2nd department by its surface area of 6,874 km². With more than 16,000 additional residents welcomed each year, Loire-Atlantique is an attractive department. The 2021-2028 politic strategy answers three major ambitions: establishing a new social and territorial contract to strengthen solidarity between residents and acting towards those most in difficulty, reconquering ecological balances to preserve our environmental wealth and accelerating the ecological and agricultural transition, and finally encourage the renewal of citizen engagement. The Department of Loire-Atlantique assumes various missions, particularly linked to the preservation of natural resources and environment. The development, modernization and use of infrastructure are part of the major ambition to reconquer ecological balances. A new ferry, operating with hydrogen propulsion and with a carrying capacity of 60 vehicles, will strengthen and modernize the existing fleet, responding, among other things, to the Department's ambition to streamline traffic and travel. on both sides of the Loire by responding to the challenge of reducing GHG emissions linked to mobility.

About SAS TERMINAL DU GRAND OUEST - TGO

TGO (Terminal du Grand Ouest) is affiliated to Terminal Link (50%) and Maritime Kuhn France (50%). TGO was created in June 2011, when it was granted the concession and became the single operator of the General Cargo and Containers Terminal (TMDC). The concession covers 58 hectares and is valid for 35 years. TGO is located in Montoir de Bretagne, in the Port of Nantes Saint Nazaire, France.

TGO's experience in heavy-weight cargo also provides us regular clients on the docks of Saint Nazaire. TGO manages all the calls of container vessels in the Port of Nantes-Saint-Nazaire, which represented 155,000 TEUs in 2023. TGO is also in charge of stevedoring general cargo vessels calling at the Port of Montoir-de-Bretagne or Saint-Nazaire. This activity represented a total of 320,000 tons of general cargo in 2023.

About Fraikin France

For more than 75 years, Fraikin has enabled businesses and communities of all sizes and in all sectors to benefit from innovative and personalized fleet management and mobility solutions. It is thanks to the trust of our customers that we are today the European leader in commercial and industrial vehicle rental.

About Jacky Perrenot Group

Leader in the transport and logistics market in France, the Jacky Perrenot Group has been engaged in the energy transition since 2012 and provides its customers with concrete and controlled decarbonization solutions allowing it today to operate the largest fleet of low-carbon vehicles on the market.

About Université D'Orleans

Founded in 1306 by Pope Clement V, the University of Orléans is one of the oldest European universities. The UO is renowned across Europe. It closed its doors during the French Revolution in 1793, like every other university in France, but came back to life in the 1960s with the creation of a campus in the South of Orléans. Since then, it has developed and expanded in the 6 administrative departments in the Centre-Val de Loire region. Today, it is composed of 3 Colleges – Law, Economics and Management (DEG) – Science and Technology (CoST) – Humanities, Languages and Social Sciences (LLSH), 4 Institutes of Technology (IUT), a National Higher School for Teaching and Education (INSPE), a Polytech School of Engineering, an Observatory of the Sciences of the Universe (OSUC) and a University School of Physiotherapy (EUK).

About Hype

Launched in Paris in 2015 at COP 21 in response to the public health emergency of air and noise pollution in urban areas, Hype is developing the first zero emission mobility platform, integrating production and distribution of green hydrogen, with taxis as the first relevant market. Hype, which has been operating the world's largest fleet of hydrogen-powered taxis for eight years, now seeks to drive a rapid and mass transition to zero-emission on-demand transportation and professional mobility uses.

Leveraging its speed of execution and agility with its scalable and integrated model facilitating the use of zero emission mobility solutions for as many drivers and customers as possible in the short term, Hype plans to deploy its platform in 15 other regions in France and around the world by the end of 2025.

www.hype.earth

About Tecnia

TECNALIA is the largest applied research and technological development center in Spain, a European benchmark and member of the Basque Research and Technology Alliance.

The Energy Planning platform from Tecnia supports informed decision-making process and helps deciding on the best course of actions during the Energy Transition and decarbonization process.

Our models and tools provide a modelling environment for the comprehensive analysis of the complex energy systems. They also analyse the impacts of different policy options on specific sectors and on multi-sectoral energy systems.

- Analysis of multi-scale energy systems.
- Prospective energy analysis.
- Energy, economic and environmental impact assessment.
- Multi-criteria analysis for the prioritisation of technologies and strategies.
- Comprehensive modelling for energy planning at a city, territory and regional level

In AdvancedH2Valley project, Tecnia will be in charge of carrying out a comprehensive sustainable analysis of the H2 produced taking into account the impacts of its different life cycle stages and the prospective assessment of the regional energy system. In addition, Tecnia will collaborate in the evaluation of the technology up-scaling impact in the Atlantic Arc.

[Prospective energy modelling laboratory | Tecnia](#)

About Université Bretagne Sud (UBS)

As enterprising and committed university, the Université Bretagne Sud (UBS) is developing four major priorities: Sea & Coastlines, Industry of the Future, Environment, Health & Disability, Cyber & Data Intelligence. On a human scale, Université Bretagne Sud has three campuses located in Lorient, Vannes and Pontivy, and draws on the skills of its 987 staff, including 500 teachers and lecturers, to train 10,800 students every year.

The UBS is multi-faceted and the only public university in the department of Morbihan. It is the only one university offering such a wide range of study programmes, from university bachelor's degree in technology (B.U.T) and engineering degrees to PhDs. The Université Bretagne Sud owes its growth and influence to a tradition of innovation and proximity to its partners that continues to drive its activities. It has three faculties, two university institutes of technology, 1 engineering school and a business administration institute (IAE).

The Faculty of Law, Economics & Management is located in Vannes, the Faculty of Arts, Languages, Humanities & Social Sciences is located in Lorient and the Faculty of Science & Engineering is located both in Vannes and Lorient. Each of our campuses has a University Institute of Technology (IUT). The Vannes IUT trains students primarily in IT, statistics, business, management, and accounting. The Lorient-Pontivy IUT prepares students for careers in the environment, thermal and chemical engineering, and logistics. The ENSIBS engineering school trains nearly 300 engineering students in 4 specialities: IT and cyberdefence in Vannes, industrial engineering, mechatronics, civil engineering, power and electrical engineering (including hydrogen) in Lorient.

The business administration institute Bretagne Sud (IAE) is located in Vannes and trains the managers and economists of tomorrow.

www.univ-ubs.fr

www.ensibs.fr

About Automobile Club de l'Ouest

Founded in 1906, the Automobile Club de l'Ouest (ACO) organised the first ever Grand Prix in 1906 and introduced the 24 Hours of Le Mans in 1923. A staunch defender of endurance racing, the ACO contributes to the organisation and promotion of the FIA World Endurance Championship and instigated the WeatherTech SportsCar Championship in the USA, the European Le Mans Series and Asian Le Mans Series. Aside from the world-famous Le Mans 24 Hours, ACO circuits host the 24-hour motorcycle race (24H Motos), the French motorcycle Grand Prix, the 24-hour go-karting event and the 24-hour truck race (24 Heures Camions).

The 24 Hours of Le Mans is a test bed for innovations in automotive technology, the ACO's main focus in terms of development. The ACO's commitment to sustainable mobility currently takes the shape of the MissionH24 project to introduce a hydrogen class at the 24 Hours of Le Mans.

The ACO defends the interests of everyday motorists and takes pleasure in offering excellent hospitality to members at motor sports events organised by the club. Driving skills being an important part of the safety and the pleasure of motoring, the club has a driving school, Le Mans Driver, as well as a go-kart complex with simulators and an international standard track. The club's trackside facilities are a sought-after event venue, often coupled with multi-lingual tours of the circuit. Merchandise and tickets are on sale in outlets in Le Mans, Tours, Rouen, Paris.

Région des Pays de la Loire

The Région Pays de la Loire launched an ambitious Hydrogen Roadmap in 2020, leveraging its strengths in ecological transition, innovation, and economic development. Leading the charge is the "Hydrogen Planet" initiative, propelling the entire ecosystem from production to utilization. This roadmap drives technological advancement in the major Atlantic energy hub and supports local enterprises for economic growth. With a commitment to action, the Region has allocated 13 million euros across 80 hydrogen projects, empowering stakeholders, and facilitating national and European support integration. Beyond financial aid, the Region fosters innovation by expanding technological hubs, establishing testing facilities, and initiating training programs. These efforts actively cultivate hydrogen projects, paving the way for a sustainable future.

<https://www.solutions-eco.fr/en/solutions/hydrogen-planet/>

<https://www.paysdelaloire.fr/>

About Angers Loire Métropole

Angers Loire Métropole (ALM) is a French urban community located in the department of Maine-et-Loire and the Pays de la Loire region created on January 1, 2016, which succeeds the agglomeration community of Angers Loire Métropole. This intercommunal structure does not constitute a metropolis within the meaning of the reform of French local authorities and Act III of decentralization. The urban community is organized around the city of Angers and is part of the mixed union metropolitan center Loire Angers, formerly Pays Loire-Angers. It is also a member of the Loire-Bretagne metropolitan center. In 2021, Angers Loire Métropole brings together 306,617 inhabitants over 666 km². It is the fourth intercommunity in the west in terms of population after those of Nantes, Rennes and Rouen. It is the second largest intercommunity in the West in terms of surface area, with 666 km² after Rennes Métropole (705 km²).

About the Conference of Peripheral Maritime Regions (CPMR)

The Conference of Peripheral Maritime Regions is a regional network created in 1973 that brings together more than 150 Regions from 24 States from the European Union and beyond. Representing about 200 million people, the CPMR campaigns in favor of a more balanced development of the European territory. It operates both as a think tank and as a lobby for Regions, focusing mainly on social, economic and territorial cohesion, maritime policies and blue growth, and accessibility. The CPMR is composed of six geographical commissions, among which the Atlantic Arc Commission which will follow AdvancedH2Valley and share its results with the Atlantic Regions of the CPMR from France, Spain, Portugal, Ireland, Wales and Québec.

About Région Normandie

Normandy is the northwesternmost of the eighteen regions of France, roughly coextensive with the historical Duchy of Normandy.

Normandy is divided into five administrative departments: Calvados, Eure, Manche, Orne and Seine-Maritime. It covers 30,627 square kilometres (11,825 sq mi), [5] comprising roughly 5% of the territory of metropolitan France. Its population of 3,322,757 accounts for around 5% of the population of France. The inhabitants of Normandy are known as Normans, and the region is the historic homeland of the Norman language. The neighbouring regions are Hauts-de-France and Ile-de-France to the east, Centre-Val de Loire to the southeast, Pays de la Loire to the south, and Brittany to the southwest. Its prefecture and largest city is Rouen, although the regional council sits in Caen, making Normandy one of two regions in France (along with Bourgogne-Franche-Comté) in which the prefect does not sit in the same city as the regional council.

Normandy's name comes from the settlement of the territory by Vikings ("Northmen") from the 9th century and confirmed by treaty in the 10th century between King Charles III of France and the Viking jarl Rollo.



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