

H2V Industry

Under the sign of hydrogen



Founded in 2016 by mining engineer Lucien Mallet, H2V Industry is a company determined to promote the circular economy and contribute innovation to meet the challenges of the energy transition.

A pioneering company that actively participates in the development of the hydrogen sector by building plants to deploy – massively and globally – hydrogen by electrolysis of water, based on renewable energy that is certified carbon-free, H2V operates on various continents and responds to recent markets for global green hydrogen needs.

Expertise

Developments led by H2V rely on the expertise of teams whose know-how makes the company unique. The move to a massive scale of production also distinguishes the company, whose intellectual property is protected by the design of its factories.

Experts in the integration of technologies, the company works with several suppliers to offer its customers turnkey factories optimised and adapted to the uses of the hydrogen they need.

Each plant represents an investment of €500m and the creation of 200 jobs. By 2030, the sector developed by H2V will have created 12,000 jobs in France, for an investment of around €3.5bn.

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Applications

H2V builds large hydrogen production plants in France and abroad to satisfy all the applications that will need green hydrogen, from the petroleum and chemical industry to hydrogen injection

in gas infrastructure and hydrogen mobility applications.

In France alone, three projects are in progress: Hauts-de-France, Normandy, and Provence-Alpes-Côte d’Azur. H2V has also been requested to provide many countries with ‘Green Hydrogen’ for various applications depending on the country’s requirement and objectives.

Consequently, H2V adapts its offering and strategy to stick to social, environmental and political targets, to deliver the most appropriate solutions in each country. “In our research centres as well as in our industrialists, we have everything to structure a sector and I also put a lot of hope in hydrogen in terms of storage,” says Mallet.

The plants will be close to major natural gas transmission infrastructures, refineries and carbon dioxide (CO₂) emitting industries. “The conquest of the French, European and international markets will be a great launching pad to make our country shine on the international scene as part of the global energy transition.”

Green hydrogen

H2V technology is both modular and scalable, and considers the development of several plants to meet the important requirements for various applications.

Mallet has studied the subject of hydrogen energy for several years and recognises hydrogen as the essential element for the success of the energy transition – and is determined that H2V technology will contribute to the mass production of the green hydrogen required to enable a cleaner future.

“Hydrogen is the element that will transform the energy world of the 21st century,” says Mallet. “Certainly, it is already present in the chemical and petroleum industries and tomorrow, it will be essential to the service of electricity and

transport. It will be the only fuel for our electric vehicles, the gas that will heat us, and the light that will brighten our lives. In short, it will be our source of energy. This is my vision.”

As a result, hydrogen demand will increase dramatically in the coming decades. But as Mallet points out, it must be recognised that hydrogen is essentially chemically manufactured at present, with hydrocarbons that emit a lot of CO₂. “This should not continue if we want to live in harmony respectful with our environment.”

“That’s why I have created H2V Industry to meet the needs of mass production within the ‘green’ hydrogen by electrolysis of water based on certified carbon-free energy. This is my mission.”

H2V also initiates specific training programmes for hydrogen skills within the regions or territories where it builds its plants, covering the principles of operations, safety, and risk control. “It is a major responsibility to ensure the safety of our establishments,” says Mallet.

This perhaps sums up how Mallet and H2V feel about the importance and togetherness of the energy transition: a balanced and inclusive approach is integral. “Hydrogen is the economic paradigm shift that can accelerate the energy transition today in all sectors.”

“Together, our approach is to find a balance of the terrestrial ecosystem in its entirety, this approach which, like a creed, has always guided our actions.” 