

# Hydrogen







## About Us

**IMP Promont is a leading Slovenian company in the field of planning and implementing the most complex mechanical installations as well as managing engineering projects.**

With our expertise and experience we conduct demanding technological installations in the fields of energy, gas, oil, pharmaceutical, medical and chemical industry.

Our services cover very different areas for which we have developed innovative solutions and we are ready to meet even the most demanding challenges. The company is qualified for the installation and maintenance of non-electrical Ex equipment; our installers and welders are trained to work in explosion zones, which is attested by the obtained certificates for the employees and the company in the field of explosion protection. These qualifications are regularly updated through regular training for work in potentially explosive environments with accredited training providers.

The values of our organizational culture are:

**trust, respect, responsibility, professionalism, cooperation and openness, commitment to quality policy, knowledge, creativity and reliability.**

We are convinced that with our staff, knowledge, experience, quality and conscientious fulfilment of contractual provisions, we can take over the implementation of the most demanding facilities.

The company's vision is to remain the leading company in the field of design and implementation of technological and infrastructural installations in Slovenia, and at the same time we will strive to strengthen our position at the very top of companies in the field of executive engineering.

# Energy Transition

## Your partner for most demanding part of energy transition

Concerning energy transition, we are oriented towards oil&gas, heavy transport and various energy intensive industries, such as chemical and fertiliser, that are fundamental for societal functioning, and have no realistic alternative to decarbonize by direct electrification. We are developing our activities to support our current and future customers in achieving their climate goals and obligations, while achieving maximum value of their product.

We see hydrogen as central part of our future operations and as a central part of energy transition, thus focusing our activities towards hydrogen production, storage, transmission and distribution to deliver complete solution to the customer. We cover all technological aspects of our deliveries, starting with optimal system integration all the way to design and construction of the hydrogen plant.





# Hydrogen Production

## From integration to complete hydrogen plant

Hydrogen ecosystem is undergoing rapid development, so we recognized the need to implement computational tools to frame the regulatory requirements, and provide efficient selection of critical system components and other building blocks of hydrogen production plant. Based on customers hydrogen consumer profile, availability of data on preferred way of electricity supply, joined with regulatory framework, we can effectively and accurately determine optimal system integration, for achieving lowest levelized cost of hydrogen. Based on results from the previous steps, we can also take care of project development, focusing mainly on

technological part, and carry out procurement and the technological installation of complete hydrogen plant.

To us, optimization of hydrogen production is key to a success of hydrogen sector so we are always striving to achieve optimal configuration tailored to the customer needs. We are always willing to go step further in optimization and are by default willing to consider and asses all opportunities offered by sector coupling.



# Infrastructure for New Gases

As already leading Slovenian company when it comes to natural gas transmission and distribution systems, IMP Promont is actively engaged in development it's expertise when it comes to transitioning of gas pipelines towards hydrogen and hydrogen and natural gas blends.

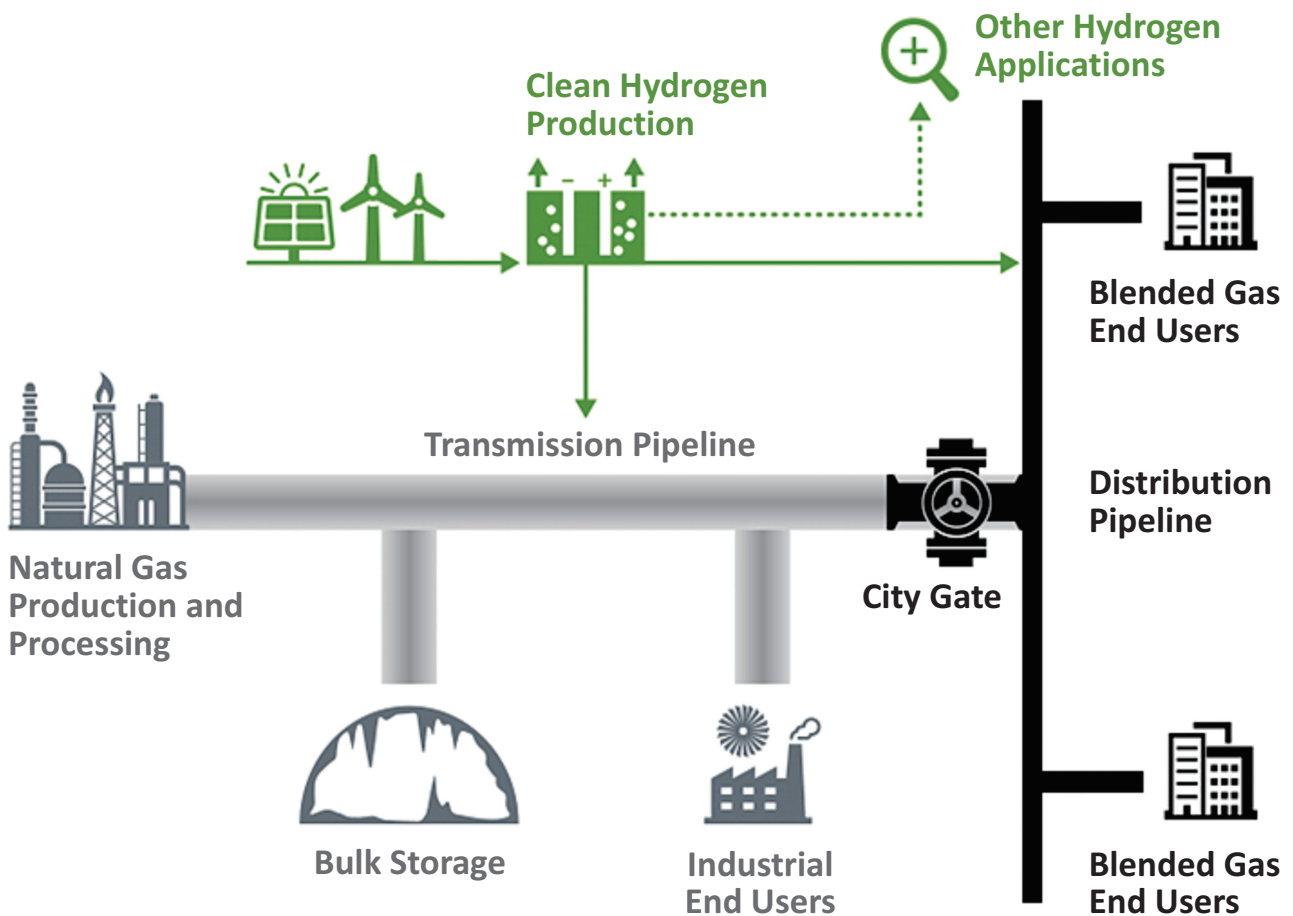
With our professionally trained and certified staff with vast experience, we are developing our operations for construction of hydrogen pipelines and refurbishment of existing gas infrastructure for receipt of new clean and carbon neutral gases.

# Process Equipment

## Hydrogen blending stations

Injecting hydrogen into gas transmission system gas provides the best opportunity to start transition of natural gas towards climate neutral form of energy supply. Simultaneously, it also provides flexibility to electricity system and is thus enabling higher penetration of intermittent renewable energy sources into existing energy mix.

At IMP Promont we have recognised the critical nature of assuring quality of the injected mixture and have entered into development of failsafe hydrogen blending station with real time Wobee index metering and high frequency composition measurements of the mixture. By dynamic response the station ensures constant gas composition and high availability of supply.



# IMPLEMENTATION *of ideas*



**IMP PROMONT d.o.o.**

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