

Hydrogen

**Technologies
and expertise
for the energy
of the future**



CPL Concordia
ENERGIA CHE MIGLIORA LA VITA

CPL Concordia the industrial partner for hydrogen energy infrastructures

CPL Concordia is an Italian cooperative company founded in 1899. For more than a century we have been **designing, building, and managing complex energy infrastructures**, providing industrial strength, engineering expertise, and execution capabilities throughout the entire lifecycle of energy plants. Today, these competencies support the development of hydrogen infrastructure, a key energy carrier for industrial decarbonization.

A STRONG AND WIDESPREAD STRUCTURE

With more than 1,600 employees, 10 offices in Italy, and 7 territorial branches, we ensure a widespread presence that allows us to manage projects directly, guarantee operational continuity, and respond quickly throughout the national territory.

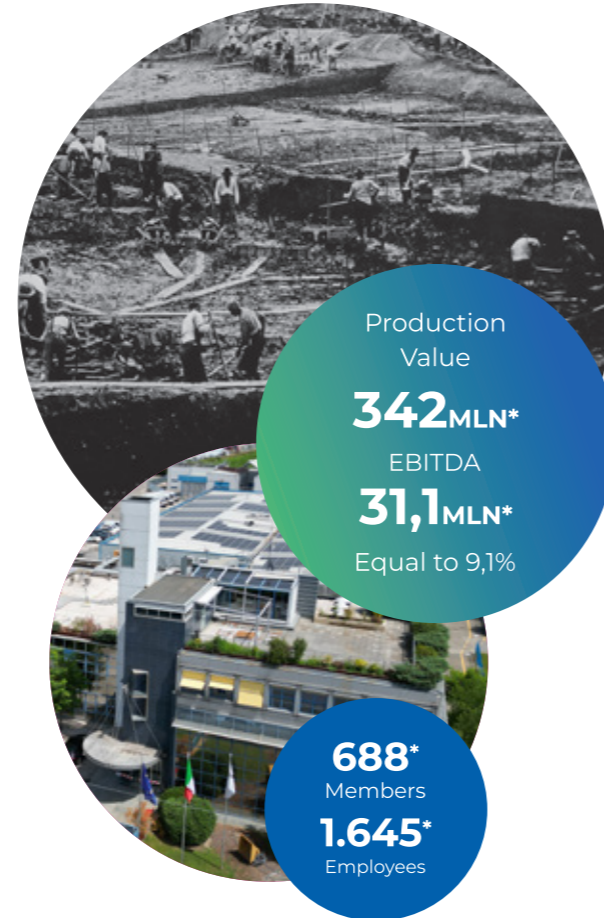
INTEGRATED EXPERTISE FOR HYDROGEN

The expertise developed in gas infrastructure and energy plants enables us to design, build, and manage facilities for hydrogen production, compression, storage, and distribution, supporting industrial clients and energy operators in the development of new infrastructure.

PEOPLE AND SAFETY AT THE CENTER

The construction and management of hydrogen infrastructure require highly specialized skills and a strong safety culture.

We continuously invest in the technical training of our people and operate according to certified quality, safety, and environmental management systems, ensuring high standards in every phase of the project.



**We are the industrial partner
for designing, building,
and managing hydrogen
infrastructure, from
conception to full operation.**

Data from December 2024

HYDROGEN

Hands-on experience in hydrogen infrastructure

The development of the first refueling stations in Lombardy and the subsequent Hydrogen Valleys across Italy has allowed us to develop key expertise in the hydrogen sector.

We can operate as an EPC partner throughout the entire project lifecycle, from feasibility studies to operational management. This approach ensures full control over quality, timelines, and safety, even in highly complex technological contexts.

Our technical structure and local presence, already active on critical assets, provide a **solid O&M** foundation capable of delivering management and maintenance services, continuous monitoring, and operational support—fundamental elements for strategic energy infrastructures such as hydrogen facilities.

We design and build complex energy infrastructures, applying our expertise also to the hydrogen sector.



CASE HISTORY

H2 Refueling Stations – Milano Serravalle

We have built five hydrogen refueling stations in Carugate, Rho, and Tortona for Ferrovie Nord Milano and Milano Serravalle. This strategic initiative paves the way for the development of the hydrogen vehicle market in Italy.

TECHNICAL AND OPERATIONAL CHALLENGE

Executive design completed in 3 months, coordinated construction sites across multiple areas with up to 40 professionals working simultaneously. Fire safety and security regulations integrated into a pioneering high-pressure facility.

INNOVATION AND TECHNOLOGY

Approximately 2.5 km of high-pressure stainless steel piping

- Cylinders up to 990 bar, two-level storage
- H2 cooling with CO₂ refrigeration units, multiple dispensers for cars and heavy vehicles
- Advanced safety systems (thermal cameras, H2 and flame detectors)
- Dispensing capacity up to 1 ton H2/day, expandable

A STRATEGIC MILESTONE

A complex project demonstrating CPL's ability to manage pioneering infrastructures, coordinating multidisciplinary expertise while ensuring safety, reliability, and high performance.



Hydrogen for industrial decarbonization

A SOLUTION FOR HARD-TO-ABATE SECTORS

Hydrogen represents a strategic lever for the decarbonization of energy-intensive industrial sectors, such as steel, ceramics, glass, and chemicals, where direct electrification is not always feasible

FROM EXPERIENCE TO INDUSTRIAL TRANSITION

The expertise gained in designing and managing hydrogen infrastructures can be directly applied to industrial processes, enabling the development of H₂ production, storage, and utilization systems integrated with existing facilities.

THE PARTNER FOR INDUSTRIAL HYDROGEN

CPL Concordia supports companies and energy operators in developing hydrogen-based solutions, contributing to emission reductions and the creation of more sustainable, safe, and reliable energy systems.



A Comprehensive and Integrated Approach

What we can do for your
company

Technical Analysis and Feasibility

- Evaluation of existing processes
- Identification of H₂ intervention points
- Simulation of profitability and energy savings

Customized Plant Engineering

- Tailor-made H₂ storage and distribution systems
- Integration with existing plants and energy networks
- Plant safety and regulatory compliance

Construction and Commissioning

- Construction of complex plants with multidisciplinary management
- Quality control and operational testing
- Fast and safe start-up

Operation & Maintenance

- Continuous monitoring and predictive management
- Scheduled maintenance and rapid interventions
- Process optimization for maximum efficiency

✔ NEXT STEP

Supporting hard-to-abate companies on real, tailored, and scalable decarbonization pathways, leveraging expertise proven in pioneering hydrogen (H₂) projects.

With CPL Concordia, decarbonization is not just a concept, but a concrete solution already working in real-world conditions.





CPL Concordia
ENERGIA CHE MIGLIORA LA VITA

CPL Concordia Soc. Coop.
Via A. Grandi, 39
Concordia s/S (MO)

t. +39 0535 616 111
m. info@cpl.it

www.cpl.it

