

## **MAIRE COMPLETED ITALY'S FIRST CARBON CAPTURE AND STORAGE (CCS) PLANT AT ENI'S RAVENNA HUB DELIVERING A REDUCTION OF OVER 90% OF CO<sub>2</sub> EMISSIONS, LEVERAGING ITS TECHNOLOGICAL AND E&C INTEGRATED APPROACH**

- **NEXTCHEM** has designed and implemented novel and tailored CO<sub>2</sub> capture solutions (now part of its **NX Decarb™** technology) to support ENI's Ravenna CCS Phase 1 project
- **KT** has completed the full Engineering, Procurement and Construction works
- The project involves the detailed design of a facility to capture the CO<sub>2</sub> emissions from ENI's Casalborsetti natural gas plant, estimated at approximately-25,000 tonnes per year

*Milan, 5 September 2024* – **MAIRE** (MAIRE.MI), through its subsidiaries **NEXTCHEM** (Sustainable Technology Solutions) and **KT** (Integrated E&C Solutions), acted as technology integrator and completed the full Engineering, Procurement and Construction works for a carbon plant at the **ENI natural gas treatment plant of Casalborsetti**, near Ravenna, Italy.

The facility, which has just started up its operations, is designed to separate, purify and compress a CO<sub>2</sub> emissions volume estimated at approximately 25,000 tons per year. The project is delivering a reduction of over 90% of CO<sub>2</sub> emissions, which would otherwise be released into the atmosphere. Operating at carbon concentration lower than 3% and at atmospheric pressure, making the facility the world's first industrial-scale project with such high levels of carbon capture efficiency.

This project is the first carbon capture plant in Italy and, by supporting the phase 1 of Ravenna CCS, it represents a milestone to consolidate the complete CCS value chain, from capture to sequestration, which is a decarbonisation solution of growing importance playing a critical role in environmental sustainability.

As a technology provider, **NEXTCHEM** has developed its own innovative process design to integrate a third-party technology, effectively enabling CO<sub>2</sub> capture from emissions gasses with high efficiency and low power consumption even at extremely low concentrations.

With this project, **NEXTCHEM** strengthens its track record in CO<sub>2</sub> capture solutions, which are now part of the **NX Decarb™ technology** aiming at enhancing the efficiency of carbon capture by optimizing heat management and energy use.

**Alessandro Bernini, CEO of MAIRE, said:** “As a Group, we are dedicated to the development of new high-performance solutions which help decarbonize the hard-to-abate industries. This project is a recognition of our technology offering for prominent market players and our role in boosting the Italian industrial supply chain.”



**MAIRE S.p.A.** leads a technology and engineering group that develops and implements innovative solutions to enable the Energy Transition. We offer Sustainable Technology Solutions and Integrated E&C Solutions in nitrogen fertilizers, hydrogen, circular carbon, fuels, chemicals, and polymers. MAIRE creates value in 45 countries and relies on over 8,500 employees, supported by over 20,000 people engaged in its projects worldwide. MAIRE is listed on the Milan Stock Exchange (ticker "**MAIRE**"). For further information: [www.groupmaire.com](http://www.groupmaire.com).

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