

Net Zero: Saipem launches *Bluenzyme™*, the most sustainable solution for CO2 capture

Bluenzyme™ is an innovative plug-and-play solution based on the use of enzymes, which ensures a carbon capture process with reduced environmental impact and therefore more sustainable than traditional processes. The first industrialized product is Bluenzyme™ 200, with a nominal capture capacity of 200 tonnes of CO2 per day

Milan (Italy), September 7, 2023 - Saipem has launched Bluenzyme™, an innovative pre-engineered line of CO2 capture solutions based on the proprietary enzymatic technology "CO2 Solutions by SAIPEM", with the release of the first industrialized product, Bluenzyme™ 200, a ready-to-use package aimed at small and medium emitters, which has a nominal capture capacity of 200 tonnes of CO2 per day.

The "CO2 Solutions by SAIPEM" technology that characterizes how Bluenzyme™ works, uses a non-toxic, non-volatile solvent based on the use of the carbonic anhydrase enzyme, the most powerful natural catalyst for the capture of carbon dioxide, which is naturally present in the human body and in all living organisms for the organic exchange of CO2 during respiration. After an in-depth analysis of how this natural enzyme works, Saipem developed a high-performance industrial solution for CO2 capture that is more environmentally sustainable than traditional processes, and more cost-effective. This is possible because the technology is suitable for the use of recoverable heat from low temperature sources.

Bluenzyme™ is a plug-and-play system designed for different industrial sectors including oil & gas, petrochemicals, energy and cement production, and, in general, for hard-to-abate sectors whose decarbonization represents an important milestone and challenge for the achievement of carbon neutrality targets. The product is applied to post-combustion emissions from new or existing plants.

Bluenzyme™ is a modular and flexible product, easily adaptable to any plant thanks to its compact design. The modules are manufactured offsite, with standardized production processes and stringent quality controls, and are then installed on-site. This modular approach and the adoption of a dedicated supply chain reduce project execution time, costs, and risks, making Bluenzyme™ a cost-effective, sustainable, and rapidly available industrial solution.

Fabrizio Botta, Chief Commercial Officer at Saipem, commented: "We are proud to be able to offer our customers the Bluenzyme™ 200 solution, an off-the-shelf product based on proprietary technology that is the result of our relentless commitment to research and development of increasingly flexible, efficient and sustainable solutions. Bluenzyme™ 200 represents a concrete solution to allow companies to reach their ESG goals and move closer to the target of a zero-carbon future that Saipem is striving to achieve."



Saipem is a global leader in the engineering and construction of major projects for the energy and infrastructure sectors, both offshore and onshore. Saipem is "One Company" organized into five business lines - Asset Based Services, Energy Carriers, Offshore Wind, Sustainable Infrastructures, Robotics & Industrialized Solutions. The company has 8 fabrication yards and an offshore fleet of 23 construction vessels (of which 21 owned and 2 owned by third parties and managed by Saipem) and 15 drilling rigs, of which 8 owned. Always oriented towards technological innovation, the company's purpose is "Engineering for a sustainable future". As such Saipem is committed to supporting its clients on the energy transition pathway towards Net Zero, with increasingly digital means, technologies and processes geared for environmental sustainability. Listed on the Milan Stock Exchange, it is present in more than 50 countries around the world and employs about 30,000 people of over 120 nationalities.

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