



Saipem and Novozymes to work together to create a more sustainable CO₂ capture

The partnership will develop new biotech solutions aimed at carbon capture through enzymes

San Donato Milanese (Italy), December 13, 2021 - Saipem and Novozymes, the world leader in biological solutions, have signed a collaboration agreement for the development of innovative solutions for enzymatic carbon capture.

As part of the agreement, Saipem, which owns an enzyme-based CO₂ capture technology that can also contain costs, will be responsible for providing process, mechanical and equipment design, while Novozymes will provide enzymes while further optimising the process through enzymes innovation.

Enzymatic carbon capture is more sustainable in environmental terms and more cost-effective compared to traditional CO₂ capture processes. In fact, it is based on the use of enzymes that require the input of heat at lower temperatures and a significantly moderate use of chemicals, energy and, consequently, cuts down the production of harmful waste. Furthermore, this process is more reliable, as the carbonates and enzymes, being low corrosion materials, minimise the deterioration of equipment.

Saipem and Novozymes are mutually satisfied with the signed agreement which constitutes an important step towards realising innovative solutions for the reduction of greenhouse gas emissions. In fact, thanks to Saipem's expertise in CO₂ capture and storage technologies and Novozymes' cutting-edge enzymes solutions, the two companies can make the enzymatic carbon capture process highly competitive on the market of traditional amine processes.

Saipem is an advanced technological and engineering platform for the design, construction and operation of safe and sustainable complex infrastructure and plants. Saipem has always been oriented towards technological innovation and is currently committed, alongside its clients, on the frontline of energy transition with increasingly digitalised tools, technologies and processes that were devised from the outset with environmental sustainability in mind. It is listed on the Milan stock exchange and operates in over 60 countries around the world with 32 thousand employees from 130 different nationalities.

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