



Press release – Paris, March 28, 2024

Fives' technologies at the heart of the first renewable energy storage project on an industrial scale

Fives has been selected by the Chinese company Zhonglv Zhongke Energy storage technology Co for the supply of cryogenic equipment as part of the largest renewable energy storage project on an industrial scale.

THE 1ST PROJECT ON AN INDUSTRIAL SCALE WORLDWIDE

The storage unit operated by Zhonglv Zhongke Energy storage technology Co will be installed in the region of Golmud, in the Qinghai province, in the northwest of China, and is planned to be commissioned at the end of 2024. It is **the first project in the world at an industrial scale using the LAES technology** (liquid air energy storage). **The unit will store 60MW of solar energy which will be redistributed into the grid to power the needs of the region's industries and homes.** This pilot is intended to be developed worldwide with Zhonglv Zhongke Energy storage technology Co which ambition is to become a leader in the large-scale long-term energy storage market, notably thanks to Fives' support.

FIVES REVOLUTIONIZES THE USE OF ALTERNATIVE ENERGIES

Alternative energies are produced by an alternative current like wind, solar or hydraulic. The main advantage is that they are 100% decarbonized but they have a major inconvenient for manufacturers: once they are produced, they need to be used almost instantly. The LAES technology is an efficient and sustainable option to lithium-ion batteries currently used to store alternative energies.

At the heart of the LAES technology, 6 heat exchangers supplied by Fives will liquify the air required to stock the solar energy produced so it can be released at a given time.

These heat exchangers are produced in Fives' workshops in Golbey, in the East of France.

"This ambitious project is another proof of Fives' ability to support change in the industry and the emergence of decarbonized energy sources. A technological leader in cryogenics for over 65 years, Fives designs key equipment to optimize the performance of its customers and reduce CO₂.emissions" explains Vincent Pourailly, President of the Business Line Energy | Cryogenics at Fives.

"The energy storage market offers vast opportunities for new applications, with LAES technology seeming the most efficient solution for a more sustainable world. We are happy to work with Fives on this breakthrough project which will see the building of the largest demonstration project in the field of LAES and also the largest energy storage project on a global scale." declares Dr Wei Ji, Chief Scientist at Zhonglv Zhongke Energy storage technology Co, Ltd.



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Fives, your partner for a more efficient and virtuous industry

From the first railway lines to the Eiffel Tower lifts and factory 4.0, for over 200 years Fives has been designing the disruptive solutions and technologies that make up industry. As a pioneer of decarbonization and digitalization, Fives is always one innovation ahead thanks to its ability to anticipate customer needs. By responding to the specificities of each market locally, Fives combines economic and environmental performance in 25 countries thanks to its 9,000 employees.

More information: www.fivesgroup.com



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