

Media Release

Voith Group

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Voith successfully commissions the first two VECO-Drives

2020-07-23

- The two VECO-Drives have been running successfully for more than 6,000 operating hours, after being installed in February.
- The customer, Guangzhou China Resources Thermal Power Co., Ltd. is particularly impressed by the increased efficiency.
- Efficiency can be improved significantly compared to the replaced variable speed solution and reaches approx. 97 percent.

GUANGZHOU/SHANGHAI. Voith has successfully commissioned the first two VECO-Drives at a coal-fired power station in China. Since February, the two systems have already been running reliably for over 6,000 hours, improving not only the overall efficiency of the drive train but also significantly decreasing noise emissions and vibrations. This is another milestone for Voith in pushing ahead with the continuous electrification of its proven drive technologies, thus meeting the growing demand for energy-efficient variable speed drives in the power and oil & gas markets.

The two VECO-Drives have passed all necessary tests of Guangzhou China Resources Thermal Power Co., Ltd. and were put into operation in February 2020. The units are part of the customer's energy-saving transformation project of the electric feed water pump unit to replace the original speed control device.

As of today, the two VECO-Drives have provided a safe operation for more than 6,000 operating hours. Various monitoring indicators such as temperature, vibration and pressure were measured and confirmed to be within a safe range. Additionally, the team measured a power transmission efficiency of the complete speed regulation system of approx. 97 percent. Furthermore, lower than specified noise emissions were attained.

“We have selected the VECO-Drive from Voith for the energy-saving transformation project of our water supply pump,” says Cui Chengliang, Vice General Manager at Guangzhou China Resources Thermal Power Co., Ltd. “The variable speed drive system has already been running stably

for more than two months, and the energy-saving effect is obvious.” Through the entire project implementation, the Voith service team has followed up on the overall process and provided timely and professional technical support.

After passing the relevant safety commissioning certifications of the customer and third-party organizations, the VECO-Drive proved its reliability, already reaching the highest efficiency grades in early 2019. The system performed accordingly during a comprehensive test run in Crailsheim, Germany, and met all customer requirements early on.

Most efficient variable speed drive

The VECO-Drive is an electric superimposing gear, combining a mechanical planetary gear with frequency-controlled servo motors. Since only a small part of the rated power is needed as superimposing power, an overall component efficiency of more than 97 percent at peak is reached and installation space is minimized. This saves valuable energy and reduces daily operating expenses. Further, the service life of the main body of the equipment can extend up to 30 years.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.3 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive technology, systems as well as tailor-made services. With its innovative and smart products, Voith offers highest efficiency and reliability. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on the advanced technologies and digital applications of Voith.

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The two VECO-Drives were successfully put into operation in a coal-fired power station at Guangzhou China Resources Thermal Power Co., Ltd. in China.

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