

## Media Release

Voith Group

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### Voith receives order for the modernization of pump turbines in two Spanish hydropower plants

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- Voith to supply a total of five new pump turbines including the associated components for the hydropower plants Torrejón and Valdecañas
- Due to travel restrictions caused by the COVID-19 pandemic, the contract negotiations were completed entirely online from the home office
- For the hydropower plant Torrejón, Voith delivers a hydraulically optimized turbine design and thus increases the delivery head of the pump turbines

**HEIDENHEIM, GERMANY.** The technology group Voith and the Spanish electricity generation company Iberdrola recently signed a contract to modernize a total of five pump turbines for the Spanish hydroelectric power plants Torrejón and Valdecañas located on the River Tajo. Due to the travel restrictions caused by the COVID-19 pandemic, the entire contract negotiations were conducted online from the home office by both parties and concluded at the end of July. This order strengthens the long-standing, constructive and solution-oriented partnership between Voith and Iberdrola.

For the Torrejón hydropower plant, Voith will supply two semi-axial pump turbines, each with an output of 43 MW. The scope of supply includes the runners, guide vanes, turbine covers, shafts and bearings, as well as hydraulic and digital governors. As part of the modernization, the plant will be converted to variable-speed operation and in addition, the head will be increased.

For the hydropower plant Valdecañas, Voith will supply three Deriaz pump turbines with an output of 83 MW each. The scope of supply for this project includes the runners, parts of the control systems and the hydraulic

governors. In addition, both projects contain model acceptance tests, installation supervision and full commissioning of the turbines.

"By modernizing both hydropower plants, Voith is making an important contribution to a more flexible use of hydropower plants in the European power grid," explains Quentin Seringe, Sales and Marketing Manager at Voith Hydro. "For the Valdecañas project, we are developing a Deriaz pump turbine that can be optimally used especially for small to medium heads. The Torrejón project also represents a special modernization project for Voith due to the speed variability and the increase in head while maintaining the same construction conditions," adds Seringe.

The acceptance of the model tests in mid-2021 will mark the next important milestone for both projects. The first runners for the plants are to be delivered in the second half of 2022 and the last runners in mid-2024. The project will end with the commissioning of the plants scheduled for early 2025.

### **Long-term partnership of Voith and Iberdrola**

Iberdrola is a global energy leader, the number one producer of wind power and one of the world's biggest electricity utilities. The partnership between Voith Hydro and the energy company dates back several decades. In the second half of the 20th century, Voith received an order for the Gabriel y Galan hydropower plant. This was followed by further collaborations for the pumped storage power plant La Muela II on the Júcar River for which Voith supplied four pump turbines including the shut-off valves, the San Esteban hydropower plant in Galicia that went into operation in 2012, and the Conso hydropower plant on the Camba River.

### **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 Hydro is part of the Voith Group and a leading full-line supplier as well as trusted partner for equipping hydropower plants. Voith develops customized, long-term solutions and services for large and small hydro plants all over the world. Its portfolio of products and services covers the entire life cycle and all major components for large and small hydro plants, from generators, turbines, pumps and automation systems,

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right through to spare parts, maintenance and training services, and digital solutions for intelligent hydropower.



The hydropower plant Torrejón will be equipped with two semi-axial pump turbines, each generating 43 MW.



The Valdecañas hydropower plant will be equipped with three Deriaz pump turbines, each with a capacity of 83 MW.

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