

Media Release

Voith Group

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2020-07-06

Voith supports China to develop hydropower – First Wu Dongde hydropower plant units now in operation

- Wu Dongde hydropower plant ranks seventh in the world in terms of installed capacity
- An important milestone in the history of hydropower worldwide
- Voith ensures strict quality control of each manufacturing process for high-quality units

SHANGHAI, CHINA. On June 29, 2020, the first units of Wu Dongde hydropower plant started operating successfully as directed by Mr. Zhang Jianhua, Head of National Energy Administration. As a major partner of the Wu Dongde project, Voith designed and manufactured unit 6, one of the first units to be put into operation. All technical indicators fully meet the top-quality requirements of China Three Gorges Corporation (CTG), another important milestone in the history of hydropower in the world. This also lays a solid basis for the target of all 12 units on both left and right banks of Wu Dongde hydropower plant to be put into operation in 2021.

Wu Dongde hydropower plant ranks seventh in the world and fourth in China in terms of installed capacity. It will benefit society by preventing flood, providing inland navigation and promoting local social and economic development in addition to generating clean power. Wu Dongde hydropower plant is designed for 12 units with 850 MW capacity each.

Voith is responsible for the engineering, manufacturing and supervision of on-site installation and commissioning of the six units on the left bank of the plant. The power units provided by Voith Hydro are the largest ever commissioned in the world in terms of unit capacity. The project implementation phase included many new challenges. During the engineering stage, Voith engineers leveraged the company's global and Chinese experience and proposed final solutions after rounds of studies, analysis and demonstration. In the manufacturing process, Voith

implemented full-process, all-round quality control in raw materials testing, purchases, assembly, welding, machinery processing and other process steps. While the equipment was being installed on site, Voith technical instructors were actively involved in every installation process. Thanks to all these efforts, the essential components of turbines and generators delivered by Voith are up to the benchmark product criteria demanded by CTG and helped materialize their vision of “High quality unit, Beautiful electromechanical.”

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President Xi Jinping, General Secretary of the Communist Party of China Central Committee and Chairman of the Central Military Commission, made an important communication while congratulating the successful operation of the Wu Dongde hydropower plant:

“Wu Dongde Hydropower plant is a major national project that supports the ‘West to East Power Transmission.’ I hope the comrades will make continued efforts, adhere to the new development concepts, reach for new heights of science and technology, accomplish the remaining part of the project with high standard and high quality and make all efforts to shape Wu Dongde into an excellence project. Prioritizing the environment and remaining committed to green development and taking a scientific and orderly approach to the development of Jinsha River hydropower resources will ensure that the Jinsha River watershed is protected during development and will produce more benefits for the people.”

“Putting the first units of Wu Dongde hydropower plant into successful operation marks a new and important milestone for Voith in the hydropower sector in China and even in the world,” remarks Stephen Lewis, President and CEO of Voith Hydro APAC. “As an equipment supplier, Voith is honored to join the construction of Wu Dongde hydropower plant, which plays a key role in the ‘West to East Power Transmission’ national project. We will continue to participate in and support the development of China's hydropower.”

Voith has 150-year history in the hydropower industry and has cumulatively supplied 40,000 turbines to customers worldwide. In China, Voith provided equipment and service to China's first hydropower plant – Shi Longba plant in 1910. In the years since, Voith Hydro has supplied 157 units to 50 hydropower plants in China with a total installed capacity over 54,000 MW. CTG and Voith have a long-term and good cooperative relationship, and both parties jointly promote the sustainable development of hydropower in the world. Voith Hydro will continue to leverage its hydropower expertise and experience gathered over 150 years to help customers in China and globally to achieve successes in the future.

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



Bird view of Wu Dongde hydropower plant

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