

ITALY EXPANSION HYDROPOWER PLANT, VIETNAM

All requirements met

In December 2022, Vietnam Electricity (EVN) and ANDRITZ conducted the turbine model test for the Ialy Hydropower Plant Extension Project. The results prove the turbines fully meet the contract technical requirements. The testing process was carried out at ANDRITZ' top tier hydraulic technology laboratory in Linz, Austria and was witnessed by EVN project engineers. Testing of the hydraulic model plays a very important role in evaluating the basic parameters and determining the cost-effectiveness of the project investment.

The contract scope for ANDRITZ includes the complete electromechanical equipment for two 180 MW Francis units and additional auxiliary equipment. Project construction started in June 2021 and Unit 1 is expected to begin generating electricity in the fourth quarter of 2024.

Once completed, the project will increase the capacity of the Ialy Dam Hydropower Project to meet grid loads, especially during peak hours. This will contribute to stabilize the National Power System. The expanded Ialy hydropower plant will also increase the average annual power generation output by 233.2 GWh, thus

contributing to EVN's efforts to reduce fossil fuel costs and CO₂ emissions.

Due to the impact of the COVID-19 pandemic and the global political situation, material prices have increased

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significantly, affecting the progress of the project. However, ANDRITZ made every effort to conduct the turbine hydraulic model tests ahead of the contractual schedule in order to commence manufacturing as soon as possible and to ensure the timely supply of equipment to the project site.

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TECHNICAL DETAILS

- Total output: 1,080 MW
- Scope output: 360 MW
- Head: 185 m
- Voltage: 15.75 kV
- Runner diameter: 3,700 mm

