



NEWS

HYDRO FLASH



Yusufeli Dam, Türkiye – Full Capacity Electricity Generation has started

In November and December 2023 Units 1 and 2 of Yusufeli Hydroelectric Power Plant successfully started commercial operation. The Provisional Acceptance of the last unit was finalized on March 7th, with effective date of December 2023.

The hydroelectric plant with a total installed capacity of 558 MW (3 x 186 MW Francis) is now in full commercial operation and has already produced about 664,670 MWh.

As we initiated energy production, we were not only celebrating a significant milestone but also reaffirming ANDRITZ commitment to providing clean and sustainable energy to the Turkish grid. The annual energy

production will be approximately 1,705 GWh/year of clean and renewable energy.

The Yusufeli Power Plant and Dam, located in the Artvin province of Türkiye, are engineering marvels, testament to modern hydroelectric power generation. The plant boasts impressive mechanical technical characteristics, including a substantial water head at 275 m, efficient turbines, and a robust penstock system that optimizes energy production. The advanced design of the facility ensures not only reliable power generation but also environmental sustainability through the responsible use of our water resources providing clean and sustainable energy



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for the region. Yusufeli Dam is the highest dam in Turkey and the fifth tallest dam in the world.

ANDRITZ' scope of supply comprised the full "from water-to-wire" package including three vertical Francis units with a capacity of 186 MW each, generators, transformers and all mechanical and electrical balance of plant systems, a SCADA system, a 380/154 kV GIS switchyard as well as all the gates, penstocks and steel liners, trash racks, and cranes.

We congratulate our teams and thank them for their unwavering commitment and dedication to bring this project to reality. We wish them every success for the upcoming new projects. This project also underlines an important milestone for ANDRITZ Türkiye being the first such big project fully executed by the local Turkish set-up.

We would like to thank our customer DSI for the excellent coordination of the work

and the Civil Works Contractor LIMAK for the good cooperation.

ANDRITZ is also proud to be a key contributor to Turkey's transition to green energy with its expertise and commitment to high-quality hydropower solutions and will continue to do so.

Technical data:

Total output: 3 x 186 MW

Head: 223 m

Voltage: 13 kV / 380 kV

Runner diameter: 3,500 mm

Penstocks: 3,000 tons of steel

Gates: 2,350 tons of steel

Please check out our full 3D-360° Tour of the Yusufeli Hydroelectric Plant and Dam.

To join the virtual tour please click here: https://www.andritz.com/static/content/hydro/yusufeli_360/ |



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