

Manantali

Overhaul and update of five units in the Republic of Mali

In March 2014, ANDRITZ HYDRO signed a contract with La Société de Gestion de l’Energie de Manantali (SOGEM) to perform the overhaul and update of five generating units at the Manantali hydropower plant in the Republic of Mali.

HPP Manantali is located on the Bafing River, a tributary of the Senegal River in southwestern Mali, close to the borders of Senegal and Mauritania.

All five Kaplan turbines of the Manantali hydropower plant were commissioned in 2002. Since 2013 units #2, #3 and #4 experienced successive failures of their blades internal control mechanism. After minor repairs on these units, la Société de Gestion de l’Energie de Manantali (SOGEM) called for an international tender for the repair and general ten year overhaul of all 5 units.

The overhaul will include a detailed analysis to identify the origin of the mechanical failures and a technical update to resolve them. The success of ANDRITZ HYDRO in winning this project



Hydropower plant and spillway

was based on existing plant knowledge. ANDRITZ HYDRO was the original turbine manufacturer (OEM), understands the difficult conditions in the country and has provided excellent service support during the operation of the powerhouse. ANDRITZ HYDRO was able to work out a technologically and price competitive offer in conjunction with a relatively short planning timeframe to complete the work.

The finalization of the overhaul program is scheduled for 2017 and will benefit the populations of Senegal, Mauritania and Mali for years to come.

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Mr. Patrice Barbeau, Mr. Cheikh Ould Abdellahi Ould Bedda (General Manager of SOGEM) and Mr. Mamadou Frankaly Keita (Minister of Energy and Hydraulic of the Republic of Mali) during a visit at the hydropower plant

TECHNICAL DATA

Output: 5 x 41 MW
Voltage: 11 kV
Head: 46 m
Speed: 214 rpm
Runner diameter: 3,840 mm

