

Brazil Assis Chateaubriand (Mimoso)

ANDRITZ HYDRO signed a contract with Energy Pantanal Ltda., a subsidiary of EDP Energias Do Brazil S.A., to provide equipment and services for the maintenance and modernization of the Brazilian Assis Chateaubriand hydropower plant and its respective systems.

HPP Assis Chateaubriand, better known as Mimoso hydropower sta-



tion, is located on the Pardo River in the state of Mato Grosso do Sul, about 150 km from the state capital, Campo Grande.

The two existing Kaplan turbines were originally supplied by different manufacturers and work side by side at different heights, an unusual arrangement.

ANDRITZ HYDRO's scope of supply combines a new automation system, including voltage and speed regulation, and the spillway automation systems, as well as the auxiliary electrical system.

The first unit will be taken off the grid in June 2015 while the second unit is due to go back online in November 2016. During this period at least one machine will remain connected to the grid in order to maintain power generation. The project is planned to be completed in 2017.



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TECHNICAL DATA

Output: 20 MW / 23.5 MVA – 7 MW / 8.8 MVA
Voltage: 6.6 kV – 6.6 kV
Head: 23.5 m – 15.5 m
Speed: 163.6 rpm – 200 rpm
Runner diameter: 3,890 mm – 2,950 mm

Switzerland Innertkirchen 1

In October 2014, the first project milestone at the Innertkirchen 1 hydropower plant was completed on schedule by concreting the turbine housing and the distributor pipe.

This follows an April 2013 order from KWO, Kraftwerke Oberhasli AG, for ANDRITZ HYDRO to install a six-jet Pelton turbine within the newly established underground cavern of HPP Innertkirchen 1.

ANDRITZ HYDRO Switzerland and Austria (Weiz and Vienna) are in charge of design, manufacturing, transport, installation and commissioning of the turbine, the generator, the brushless excitation system, the voltage regulator as well as the generator leads.

The generator will be pre-assembled at ANDRITZ HYDRO Weiz, Austria, by



May 2015. Until then, ANDRITZ HYDRO Switzerland will manufacture the turbine governor (hydraulic and electronic), the control system, the runner, and the intakes as well as some auxiliary components before the main installation starts in May 2015. After completion of the penstock by KWO, the Innertkirchen 1 hydropower plant will be fed by water from the Grimsel catchment area.

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TECHNICAL DATA

Output: 150 MW / 165 MVA
Voltage: 13 kV
Head: 664 m
Speed: 375 rpm
Runner diameter: 2,770 mm