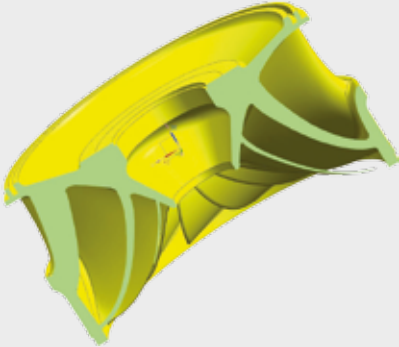


Guatemala Renace III



In 2014, ANDRITZ HYDRO received an order from Cobra Infraestructuras Hidráulicas S.A. for the supply of three Francis turbines for the new Renace III hydropower plant, which will be located on the Cahabón River, near the town of San Pedro Carchá in Guatemala.

ANDRITZ HYDRO Spain is responsible for the supply of turbines, main inlet valves, generators, and associated equipment, including detailed engineering, manufacturing, transportation to the site, erection, and commissioning.

Manufacturing and preassembly of the main turbine components will be carried out at the ANDRITZ HYDRO workshop in Spain. The generator will be supplied by the Spanish company Gamesa.

Currently, the manufacturing of the main components is in progress. HPP Renace III will be handed over to the customer in March 2016.

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TECHNICAL DATA

Output: 3 x 22 MW
Head: 153.4 m
Speed: 600 rpm
Runner diameter: 1,293 mm

Vietnam Sap Viet

In October 2014, ANDRITZ HYDRO India signed a contract with Sap Viet JSC for the delivery of a complete COMPACT HYDRO Water-to-wire package, including two 10.5 MW horizontal Francis units for the HPP Sap Viet.

The Sap Viet hydropower plant is located in the province of Son La, some 200 km north of the Vietnamese capital Hanoi.

During negotiations in September 2014 ANDRITZ HYDRO convinced the customer to use horizontal turbine arrangements, which will bring a significant benefit regarding costs

and installation time and will also be of great advantage for subsequent maintenance.

This order shows again the strong presence of ANDRITZ HYDRO in Vietnam.

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TECHNICAL DATA

Output: 2 x 10.5 MW
Voltage: 6.6 kV
Head: 74 m
Speed: 478 rpm
Runner diameter: 1,600 mm

Italy Ponte Fiume

In November 2014, ANDRITZ HYDRO received an order from ENEL S.p.A. for the supply, erection, and commissioning of two vertical turbines substituting two old open flume Francis turbines for the Ponte Fiume hydropower plant.

The contract foresees the delivery of two double-regulated ECOBulb™ units with a runner diameter of 2,600 mm and a speed of 176 rpm.

Since it will be the first ECOBulb™ installation in Europe with permanent magnet generator and power factor compensation through power converters (Active Front End), this project represents a "new milestone" in our cooperation with this worldwide acting utility.

ANDRITZ HYDRO France will deliver the bulbs and stators while ANDRITZ HYDRO Italy will supply the distributor, draft tube, EPS, power converters, auxiliaries, erection, and project management.



The inauguration of unit #1 is scheduled for April 2016, unit #2 will follow one month later.

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TECHNICAL DATA

Output: 2 x 5 MVA
Voltage: 3.3 kV
Head: 15 m
Speed: 176.5 rpm
Runner diameter: 2,600 mm