

Austria Schwarzach, Wallnerau & St.Veit

In August 2012 ANDRITZ HYDRO received an order from VERBUND Hydro Power AG for the refurbishment of the electrical protection system for generators and transformers in HPP Schwarzach and the automatic voltage regulator (AVR) for the four generators in HPP Schwarzach and two generators in HPP Wallnerau. This year VERBUND Hydro Power AG extended the contract with the refurbishment of the AVR and protection system for HPP St.Veit, which is the downstream plant of HPP Schwarzach.

The aim is to replace the old secondary equipment by state of the art digital systems and keep the existing primary equipment. The main challenges for ANDRITZ HYDRO are the tight schedule from signing the contract until the erection and commissioning of the first units as well as the integration of the new systems into



the existing equipment and the new control system. Due to the perfect cooperation between ANDRITZ HYDRO, VERBUND Hydro Power AG and third parties as well as the great performance of the workshops it was possible to cover all given dates without any delay.

In April 2013 the commissioning trial run of two generators in HPP Wallnerau and one generator in HPP Schwarzach was completed. The finalization of the project is planned for April 2015.

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TECHNICAL DATA

Schwarzach:

Output: 4 x 30 MW

St. Veit:

Output: 2 x 8.8 MW

Wallnerau:

Output: 2 x 7.2 MW

Germany Neuötting & Perach

The hydropower plants Neuötting and Perach are part of a cascade consisting of 13 run-of-river power stations and operated by the Austrian utility VERBUND Hydro Power AG at the Inn River located in Bavaria. The Neuötting plant was built in 1951 and Perach in 1977.

During an EU-wide bidding process, ANDRITZ HYDRO was awarded the

contract for the delivery of a seamless secondary technology. By 2016 both hydropower stations will be equipped with modern system components from the NEPTUN product family. The scope of supply includes the modernization of the unit controller, the digital turbine governor including efficiency optimizing, and a complete renewal of the sensors, including an overhaul of the oil hydraulic units, as well as the delivery of seven static excitation systems (THYNE 5) for the main units and the auxiliary unit. The new control technology will continue to guarantee the un-

manned, fully automated operation of the hydropower stations.

The modifications are carried out during regular operations. In the extremely short time period of seven months between order assignment and startup, the first unit was modified and reconnected with the grid.

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TECHNICAL DATA

Neuötting:

Output: 3 x 10 MVA / 1 x 1.2 MVA

Speed: 68.2 rpm

Perach:

Output: 3 x 8 MVA

Speed: 68.2 rpm

