Canada
Beauharnois

In June 2012 ANDRITZ HYDRO was awarded a contract from Hydro Quebec for the replacement of five excitation systems at the Beauharnois hydropower plant. This order followed the successful delivery of the excitation systems for HPP La Tuque.

The HPP Beauharnois is located at the St. Lawrence River approximately 40 km southwest of Montreal in the province of Quebec (Canada). The hydropower plant consists of 36 units with a total installed capacity of 1,853 MW. The units were put into operation from 1932 to 1961.

The contract consists of the delivery of five THYNE 4 systems including spare parts as well as commissioning, support and training. ANDRITZ HYDRO Austria completed the design work in October 2012. After manufacturing at ANDRITZ HYDRO in Graz (Austria) the successful factory acceptance test of the first system was done together with the customer in December 2012. The first unit was then delivered in January 2013. The remaining ones will be supplied on a yearly basis until 2017.


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TECHNICAL DATA
Output: 36 x 52 MW
Head: 24.4 m
Speed: 94.7 rpm

Czech Republic
Dalešice and Mohelno

A contract for the refurbishment of the control systems of HPP Dalešice and HPP Mohelno has been awarded to ANDRITZ HYDRO in 2013. Both hydropower plants are located in south Moravia (Czech Republic).

The Dalešice hydropower station is equipped with four sets of reversible Francis turbines for a 90 m head (clay-sealed rock-fill dam) and synchronous generators. Its installed capacity of 450 MW and 60 seconds startup time plays an important role in the regulation of the Czech power grid.

The Mohelno run-of-river hydroelectric power station is equipped with two turbine sets of 1.2 MW and 0.6 MW. The Mohelno reservoir balances the runoff from HPP Dalešice, and serves as its lower basin. The refurbishment is planned for 2014 and 2015. After that, both power plants will be equipped with state-of-the-art ANDRITZ HYDRO control systems, allowing error-free operation for the coming years.

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TECHNICAL DATA
Dalešice:
Output: 4 x 112.5 MW
Head: 90.7 m – 60.5 m
Speed: 136.2 rpm
Runner diameter: 800 mm
Mohelno:
Output: 1.2 MW / 0.6 MW
Head: 35.0 m – 20.5 m
Speed: 750 rpm
Runner diameter: 800 mm

Austria
Reißeck II

VERBUND Hydro Power AG has awarded ANDRITZ HYDRO a contract to supply the control equipment and protective infrastructure in the new pumped storage power plant Reißeck II in Carinthia (Austria).

PSPP Reißeck II will connect the hydraulic systems of the power station groups Malta and Reißeck/Kreuzeck, which currently operate separately, thereby putting existing resources to more efficient use. The Reißeck II pumped storage power plant will have a total capacity of 430 MW, based on two generating units, in turbine and pump mode.

The scope of delivery encompasses project planning, installation, and startup of the control systems of both generating sets, including functional areas such as the draft tube flap gate, spherical valve, and cooling water system.

Additionally the contract includes the new installation of hydraulic protection for the penstocks, which requires a high degree of know-how by the entire project team. Together with the awarded excitation system, the Neptun concept will also be installed at PSPP Reißeck II.

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TECHNICAL DATA
Output: 2 x 215 MW
Head: 730 m