

## Austria Dionysen

**In October 2013, VERBUND Hydro Power AG awarded ANDRITZ HYDRO a contract for the refurbishment of the generators at the Dionysen hydropower station in Austria.**

Located on the Mur River, in the Austrian province of Styria, the run-of-river hydropower station consists of two units, which were originally commissioned in 1949. In 2001 a modernization of the vertical Kaplan runners took place. After 65 years of operation, the generators exceeded their life span.



With this upgrade performance and efficiency of both generators will be enhanced. ANDRITZ HYDRO's scope includes the renewal of main generator parts, like the stator, the rotor body, rotor poles, brakes and fans and oil and brush dust exhauster. The generator shaft and the bearings will be refurbished and re-used. In addition, the contract contains dismantling, reassembling and the commissioning of the generators. The stator and poles will be produced in Weiz, Austria.

For each unit a maximum outage time of four months has been agreed. Start-up for unit 1 is scheduled for November 2014.

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### TECHNICAL DATA

Output: 2 x 10 MVA  
Voltage: 6.3 kV  
Speed: 214 rpm

## Austria Sölk

**VERBUND Hydro Power AG has awarded ANDRITZ HYDRO the contract for the renewal of the control systems for the Sölk hydropower station situated in the federal state of Styria in Austria.**

The core of Sölk hydropower station is the short-term storage in Grosssölk valley, for which an arched wall was constructed for a storage level at an elevation of 901.8 m above sea level of the Adriatic. This storage is supplied by the waters of the streams Kleinsölkbach, Donnersbach and Walchenbach. The powerhouse is equipped with one unit with an in-



stalled capacity of 30 m<sup>3</sup>/sec. (overload 34 m<sup>3</sup>/sec).

ANDRITZ HYDRO's scope of supply comprises the replacement and functional installation of the unit's control system, the replacement of the cooling water control, and adjustments in the existing systems (external forebays, alerting of staff on duty and redundant power station control). These systems had already been replaced by ANDRITZ HYDRO in 2000.

Together with the order covering the electronic and mechanical turbine governor, ANDRITZ HYDRO has gained a major share in the renewal of the largest unit in Styria.

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### TECHNICAL DATA

Output: 1 x 61 MW

## Austria Kreuzbergmaut & Fritzbach

**Salzburg AG has awarded a contract to ANDRITZ HYDRO for the replacement of the secondary technical equipment at Kreuzbergmaut power station in the Austrian province of Salzburg.**

This project concludes the control system renewal of the "Mittlere Salzach" series of hydropower stations.

The scope of supply also comprises the replacement of electrical protection equipment as well as exciter systems of the hydropower stations of St. Johann, Urreiting and Bischofshofen for two units, each.



In addition, ANDRITZ HYDRO was awarded the contract for the supply of automation equipment for HPP Fritzbach, a cooperation project between Salzburg AG and Österreichische Bundesforste. The scope of supply here includes machine automation for the new, six-jet Pelton turbine as well as the sub-automation of the shut-off valves in the new inlet structure.

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### TECHNICAL DATA

#### Kreuzbergmaut:

Output: 2 x 9.98 MW  
Head: 10.8 m  
Runner diameter: 3,650 mm

#### Fritzbach:

Output: 1 x 5.4 MW  
Head: 160 m