Ohau A

by Michael Ploschnitznigg
michael.ploschnitznigg@andritz.com

New Zealand – A major project milestone has been achieved with the installation of the first new excitation system at the Ohau A hydropower plant in New Zealand.

In June 2015, ANDRITZ HYDRO received an order from Meridian Energy Ltd. for the design, manufacturing, delivery, and commissioning of four static THYNE 5* excitation systems for the Ohau A station.

ANDRITZ HYDRO met the stringent timeframe of the contract in terms of design, manufacturing, and workshop testing. The new excitation systems were shipped on schedule and arrived at the powerhouse in late February 2016. Subsequently, installation of the first new excitation system followed. It has been successfully completed and was handed over to the customer in June 2016.

ANDRITZ HYDRO is looking forward to the completion of the other three excitation systems. Commissioning of the last installation is scheduled for mid-2017.

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TECHNICAL DATA	
Output	4 × 66 MW
Voltage	13.2 kV
Head	57.6 m
Speed	166.7 rpm
Runner diameter	4,120 mm
Av. annual production	1,140 GWh

Blåfalli-Vik

by Ola Morstad
ola.morstad@andritz.com

Norway – All works at the Blåfalli-Vik hydropower plant in Norway were recently completed and the plant has started commercial operation. The contract for the large refurbishment and repair order was signed by SKL Produksjon AS and ANDRITZ HYDRO in December 2015.

In September 2015, the 270 MVA generator dropped out due to a stator earth fault. This was the result of a broken bolt on a pole winding support, which had loosened and damaged the core.

ANDRITZ HYDRO was contacted to support the dismantling of the unit for a closer inspection. A Core Induction Test (loop test) was performed, following which the customer ordered a new stator core from ANDRITZ HYDRO. The winding was re-used, therefore dismantling was performed carefully. Every single bar had to be inspected and tested before preparation for re-winding. A set of new spare bars was also manufactured.

Furthermore, the customer awarded a second order to ANDRITZ HYDRO for the refurbishment of the turbine, after an inspection revealed problems there as well.

TECHNICAL DATA	
Output	235 MW / 270 MVA
Head	365.5 m
Speed	333.33 rpm
Runner diameter	3,686 mm
Av. annual production	710 GWh