

# Ñuble

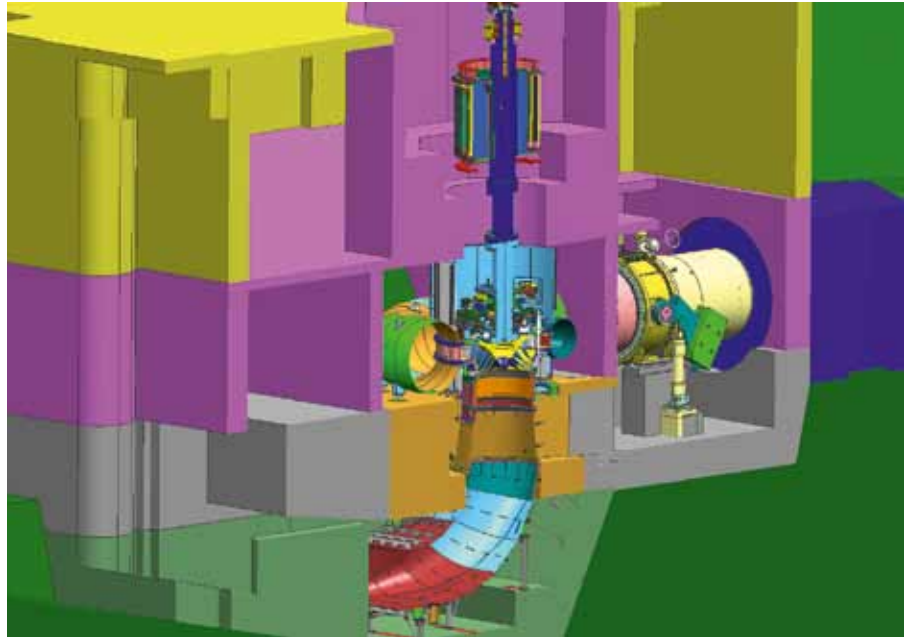
## Electromechanical equipment for a new hydropower plant in Chile

**A**NDRITZ HYDRO has recently signed a contract with Hidroeléctrica Ñuble SpA for the complete electromechanical and hydromechanical equipment of the new Ñuble hydropower plant in Chile. Hidroeléctrica Ñuble SpA is a subsidiary of the Chilean power holding company Electrica Puntilla S.A.

The Ñuble run-of-river power plant is located about 4.8 km upstream of the town of San Fabian in the Bío Bío region and uses the water of the Ñuble River and its tributaries. The hydropower plant has a daily regulated area of 300,000 m<sup>2</sup>, which was designed to regulate the outflow to the river in compliance with the environmental protection scheme.

An important aspect of the final decision to award ANDRITZ HYDRO with the contract was our strong and consolidated presence in Chile, our leading technical competence, as well as the high quality of equipment and services of all ANDRITZ HYDRO projects executed in Chile so far.

ANDRITZ HYDRO's scope includes supply, installation, supervision, commissioning, and on-site training for two vertical 71 MW Francis turbines and governors, two butterfly inlet valves including hydraulic control, two synchronous 75 MVA generators with static excitation systems, the electrical power systems, the mechanical auxiliaries systems, as well as the complete systems for Automation, Control and Protection (ACP), including communication from/to the national dispatch center. Furthermore, ANDRITZ HYDRO will deliver the penstock, six spillway radial gates (head: 22.4 m), two channel radial gates (head: 8.2 m), one intake wagon gate,

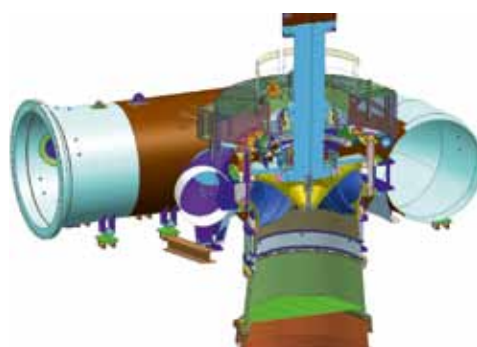


▲ Schematic layout drawing of turbine and generator

two draft tube gates, and the complete architectural finishing of the power house.

The electricity generated by HPP Ñuble, will be supplied directly into the national grid (SIC) for domestic use. With an estimated annual energy production of 620 GWh, it will make an important contribution to meet the increasing energy demand of the country. The start of commercial operation is planned for May 2017.

▼ Vertical Francis turbine section



Diego Pigozzo  
Phone: +39 0445 678 245  
diego.pigozzo@andritz.com

### TECHNICAL DATA

Output: 2 x 71 MW / 2 x 75 MVA

Voltage: 13.8 kV / 230 kV

Head: 152.5 m

Speed: 333 rpm

Runner diameter: 2,230 mm

