

## Mexico Las Truchas



**In April 2013, Primero Empresa Minera in Mexico awarded the contract for the supply of the second 7 MW unit of Las Truchas hydropower plant to a consortium of ANDRITZ HYDRO France and ANDRITZ HYDRO Mexico.**

HPP Las Truchas is located in the state of Durango in northern Mexico. Seven years ago ANDRITZ HYDRO installed the first Pelton unit at the plant.

As a result of the highly satisfactory technical and economic performance of the first unit, the client decided to expand the hydropower plant by installing a similar second unit. The contract for unit 2 includes the supply of one horizontal two jet Pelton turbine, the generator, control and protection systems, the power transformer, 34.5 kV switchyard and the erection as well as commissioning and training.

The start of commercial operation is scheduled for July 2014.

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### TECHNICAL DATA

Output: 7.3 MW
Net head: 699.38 m
Speed: 900 rpm
Runner diameter: 2,400 mm

## Italy Molino Rizzoni

**At the beginning of October 2013, ANDRITZ HYDRO and IDRO-ELETTRICA MOLINO RIZZONI, an independent power producer, signed a contract for the delivery, installation and commissioning of one Mini Compact Kaplan turbine with an asynchronous generator, including the electrical equipment and automation at HPP Molino Rizzoni.**

HPP Molino Rizzoni is a new hydropower plant located in the province of Emilia Romagna in northern Italy.



The realization of this small hydro resource was made possible because of renewable energy incentives, which support the Mini Hydro range in Italy. This is the first order in Italy since the incorporation of Hydreco Engineering SAS into the ANDRITZ HYDRO group in 2013.

The turbine, speed increaser and mechanical Balance of Plant will be provided by ANDRITZ HYDRO Toul, France. ANDRITZ HYDRO Italy will supply the electrical power systems (EPS), automation and scada.

The commissioning of the equipment is scheduled for June 2014.

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### TECHNICAL DATA

Output: 860 kW
Head: 4.1 m
Speed: 150 rpm
Runner diameter: 2,400 mm

## Austria Air transport of a turbo generator stator



**At the end of July 2013, ANDRITZ HYDRO received an order for the manufacturing of a 112 MVA spare stator turbogenerator for a project in Florida, USA.**

The time schedule was tight and ANDRITZ HYDRO, with its manufacturing center in Weiz, Austria, was the only company capable of guaranteeing the delivery at highest quality within three months.

To keep the downtime of the power station short unusually it was decided to transport the 90 ton heavy stator by aircraft rather than by ship as is more commonly done. Therefore, one of the largest transport aircraft currently flying, an Antonov 124 was hired.

After two stopovers (in Ireland and Newfoundland) the Antonov landed in Florida and the stator was immediately installed. Only two weeks later the generator was operating again.

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### TECHNICAL DATA

Output: 95 MW/112 MVA
Voltage: 13.8 kV
Speed: 3,600 rpm