







Part of ATB Riva Calzoni Group

ATB Riva Calzoni Group SMALL HYDRO

About us

ATB Riva Calzoni was formed in 2003 by merging the technical capabilities and facilities of Acciaieria e Tubificio di Brescia (ATB) and Riva Calzoni Impianti (Riva Calzoni).

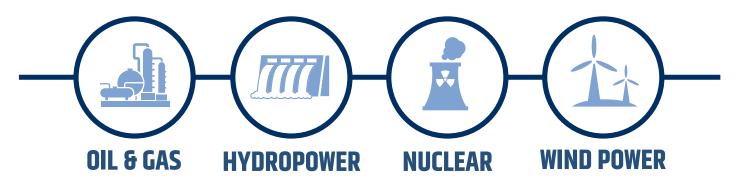
ATB was established in 1934 through the merger of the workshops, designs, patents and trademarks of "Società Italiana Tubi Togni" and "Società Siderurgica Togni" which were both founded in 1903.

Riva Calzoni operated under different names since 1834 in the design, manufacturing and installation of equipment for hydraulic and hydropower plants.

Before the 2003 merger, ATB and Riva Calzoni had accomplished more than 100 years of experience in the design, manufacturing and installation of mechanical equipment for various industrial applications. Since the merger, ATB Riva Calzoni has continuously grown to meet the increasing needs of hydropower plants, oil & petrochemical industries and thermal power plants.

AN INTERNATIONAL PLAYER FULLY FOCUSED ON ENERGY

ATB Riva Calzoni operates in the following business sectors



Hydro Energia is an Italian company established in 2011, with the acquisition of the whole know-how, references and human resources from the Hydropower BU of CO-VER Energia, a general contractor with more than twenty-five years of experience in providing EPC Services for the supply of Small Hydroelectric Power Plant, with a proprietary technology for the design and manufacturing of hydroelectric turbines and Water to Wire equipment.



SMALL HYDRO

Hydro Energia is controlled by ATB Riva Calzoni and started with the heritage of a complete organization of more than 40 employees, with highly skilled and experienced technicians in HPP applications.

The large commercial overview supported by proven technical know-how allowed us to operate from more than twenty years as a major player of the hydro market. Even though the company historically operated in the Italian market, the new company, young and dynamic, has already started a process of internationalization that brought important contracts in the major markets abroad.

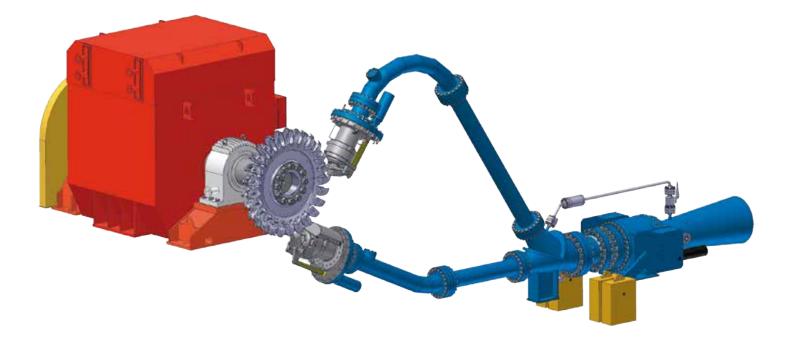


HYDRO TURBINES



The Hydro Energia own hydroelectric Turbines technology is based on 25 years long experience in design and production of the main type of turbines such as: **Kaplan, Francis and Pelton** from 100 kW up to 40 MW, each ones with various setting according to the needs of our Costumers.

In the last years almost 200 hydro units have been engineered, manufactured, assembled, delivered and commissioned by our team, for more than 340 MW of installed power and a capability of energy yield of more than 1.000 GWh.



The design of each turbines is performed in order to get the best performance according to the hydraulic site condition.



Hydro Energia develops the highest skills and specializations in the design and implementation of Automation, control and power transmission system.

Complex and complete monitoring system based on top level SCADA can be provided together with the equipment, totally integrated in the automation system, in order guarantee safe and reliable operation of the Hydro Power Plant and prevent possible failures and production losses.

Advanced system of Remote Control and Data Transfer assure constant connection with the Hydro Power Plant to check all the relevant parameters of the units from Costumers Data Room or from any other Control Station.







Every Automation and Control System can be personalized to meet our Costumer's particular requirements.



EPC CONTRACTOR

Hydro Energia operates as EPC Contractor for the supply of small Hydro Power Plants, with the capability of designing, manufacturing and installing electromechanical equipment for energy production, based upon its own technology for hydroelectric turbines.

Hydro Energia can provide a full production cycle where each stage is developed according to the EN ISO 9001:2008 standard for quality, and operates along an UNI EN ISO 14001:2004 certified Environmental Management system.

Hydro Energia can provide a wide range of tailor made solutions for installation in new power plants or for a low-impact revamping of the existing ones.

One of the most important target of our technical analysis is the definition of the best solutions in order to optimize the activities both for new Power Plant and for the revamping of the old ones.









The background of the Company and the experience developed in several projects allow Hydro Energia to provide also complete solution for hydropower installations and to grant a high quality sales service.

A specialized team of engineers and technicians provides the commissioning, start-up and O&M activities for each plant, ensuring the best after sales services and the best follow-up to our Customers after the hand-over of the plant.

High level software packages and apps will allow a complete remote survey and diagnostics of the equipment, with a large set of parameters and trends controlled and accessible 24/7 from remote engineering station, as well as visible in real-time applications specially developed for smartphones and tablets.



case history



BILANCINO HPP

Publiacqua

Location Bilancino (FI - Italy) Period September 2004 - March 2006

Scope of work Construction of a new hydro power plant Two 2,2 and 1,2 MVA@6 kV with horizontal Francis turbines and synchronous generators, with automation systems and ancillary services (oleo-hydraulics, cooling).



LUDRIGNO HPP

enel

Location Ludrigno (BG - Italy) Period August 2006 - November 2007

Scope of work Hydro power plant revampin g - Three 3,4 MVA @ 10 kV compact Units with vertical Francis turbines, with automation and ancillary services (oleo-hydraulics, cooling and braking systems).



CAROSO HPP

≣ Tirreno Power

Location Caroso (Borzonasca - GE - Italy) Period 2009 - 2011 Scope of work Hydro power plant revamping - New 9,4 MW Pelton turbine with vertical axis.



MONFALCONE PORTO HPP

() Edipower

Location Monfalcone Porto (GO - Italy) Period July 2009 - March 2011

Scope of work Hydro power plant revamping - Two 0,3MW@0,4kV units of with sub-horizontal Kaplan turbine and permanent magnet generator with variable speed, with ancillary services (cooling, electrical BOP).



PALAZZOLO SULL'OGLIO HPP

Italgen

Location Palazzolo sull'Oglio (BS - Italy) Period March 2011 - December 2012 Scope of work Hydro power plant revamping - Unit with vertical Kaplan turbine and synchronous generator (7,3 MVA @ 3,2 kV), with ancillary services and electrical BOP.



GJORICE HPP

Location Diber (Albania)

BITEKO

Period June 2014 - September 2015 **Scope of work** work Water to Wire with supervision for installation and commissioning for a new HPP with three Francis Units (3x4,3 MVA), electrical BOP and a HV substation (@ 35/110 kV)





Contact us







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