



HYDRO MECHANICAL EQUIPMENT



About us

Profile

ATB Group, an industrial group based in Italy and operating in over 20 countries with more than 1.500 employees, is a leading player with worldwide experience and expertise in the following sectors:

- **Hydro Mechanical Equipment** and Penstocks Main contractor for hydropower plants
- **Heavy Equipment** manufacturer for Oil & Gas and Power Generation industries
- **Construction** of industrial complexes, **infrastructure** works and the **management** of full-cycle iron and steelmaking plants
- Electromechanical equipment for **small hydropower** plants and **small wind** turbines supplier

History

The group is the synthesis of an industrial history of more than a century that is expressed through the know how of an international player skilled in the design, manufacture and commissioning of equipment for the energy sector.

Today the group, led by Sergio Trombini, sole shareholder and Chairman of ATB Holding S.p.A, is growing and expanding its presence on the global market.

In 1981 Trombini established his first company. In 1990, the group expanded his activities in the Civil Constructions & Industrial Services, through the establishment of Semat Spa, now present in six European Countries with consolidated references as reliable partner specialized in the construction of industrial complexes, infrastructure works and the management of full-cycle steel plants.

In 2003, the Group has formed ATB Riva Calzoni through the acquisition and merging the decades-long of technical skills and facilities of Acciaieria e Tubificio di Brescia (ATB) and Riva Calzoni Impianti. Since their establishment, between the mid-18th and the early 20th centuries, ATB and Riva Calzoni have excellent results at worldwide levels in the construction of major energy projects and manufacture of components for power generation and Oil & Gas Industries.

In 2016, the group has acquired Hydro Energia, an Italian company recently renamed ATB Riva Calzoni Rinnovabili, with more than 30 years of experience and references and with a proprietary expertise for the design and manufacturing of hydroelectric turbines and Water to Wire packages.

AN INTERNATIONAL PLAYER FULLY FOCUSED ON ENERGY

HYDRO MECHANICAL EQUIPMENT
products & services:

GATES



PENSTOCKS



VALVES

More than a century of experience and thousands of references in design, fabrication, installation and commissioning of Steel Penstocks, Gates and Valves for major hydropower projects around the world.

ATB Group operates today in the following business sectors:

HYDRO
MECHANICAL
EQUIPMENT

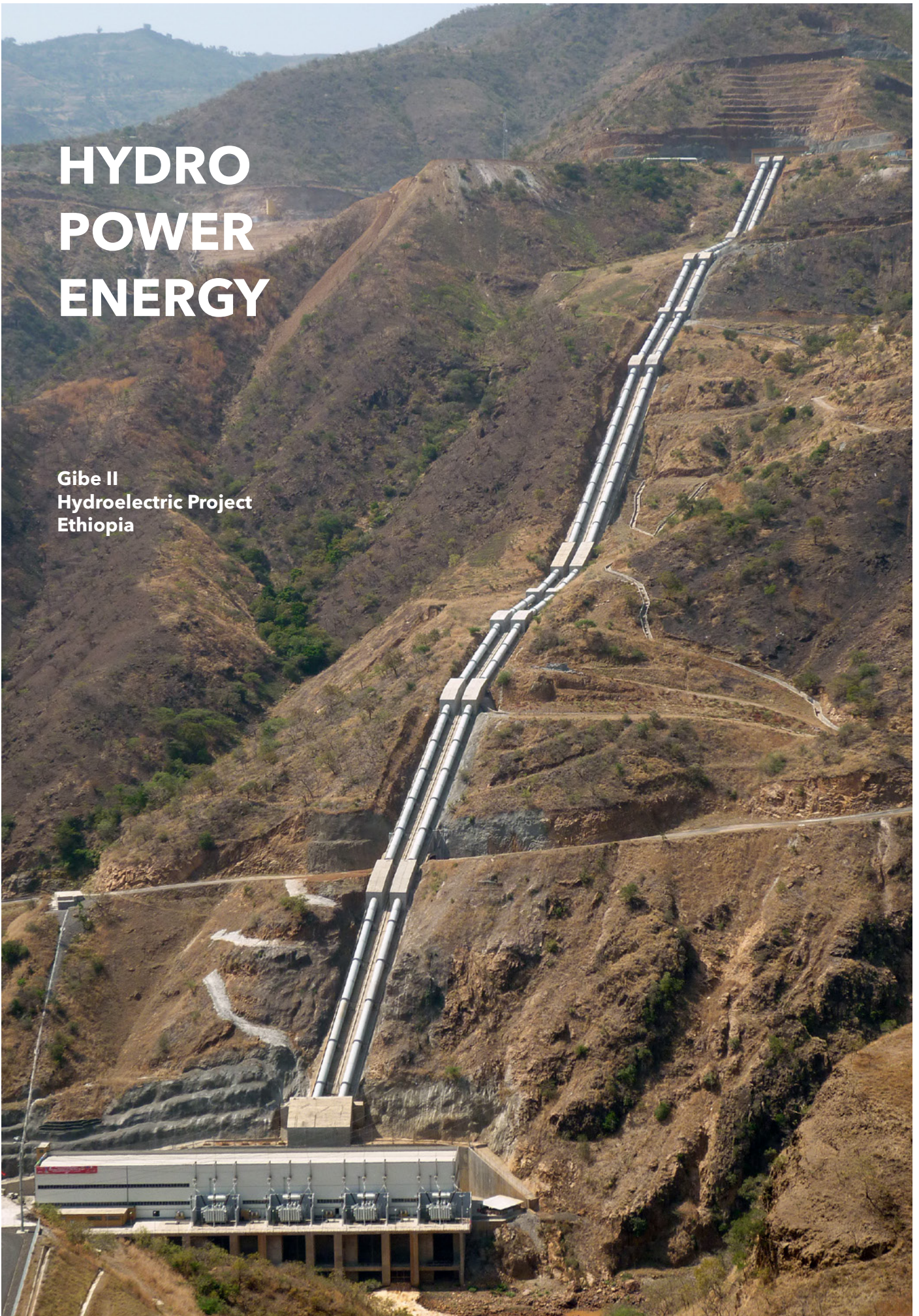
HEAVY
EQUIPMENT

RENEWABLES

CIVIL
CONSTRUCTION

HYDRO POWER ENERGY

Gibe II
Hydroelectric Project
Ethiopia



HYDROPOWER

In the last 50 years, ATB RIVA CALZONI has worked in:

700
hydropower projects with more than 2'000 gates;

100
countries;

200
penstocks with more than 300'000 tons of steel.

With more than a century of experience, ATB Riva Calzoni is recognized as one of the most qualified international companies in providing the following equipment on a "turnkey" basis:

- Steel penstocks, linings, bifurcations and manifolds
- Butterfly valves, energy dissipating valves, and regulating valves
- Spillway and bottom outlet radial gates, fixed-wheel gates, sliding high pressure gates; all equipped with the relevant operation and control equipment
- Trashracks
- Stoplogs

ATB Riva Calzoni has a wide experience in execution of large hydropower projects, keeping under its direct control the fabrication of key components while maximizing the use of local capabilities with "on-site" manufacturing and preassembly operations.

Site fabrication activities, such as automatic and semi-automatic welding, nondestructive testing (using the most modern technologies such as TOFD and Phased Array), hydraulic testing and painting are usually performed by setting up temporary workshop facilities equipped with all the necessary machines and tools to provide for the highest quality which characterizes ATB Riva Calzoni products.

 **ITALIAN KNOW HOW**



**Theun-Hinboun
Expansion Project
Laos**

Since the beginning of the 20th century, ATB Riva Calzoni started to develop its knowhow in the design, supply, installation and commissioning of gates, covering all types and sizes. Furthermore, the company internationally promoted the more valuable hydraulic control systems for large radial gates as an alternative to electromechanical hoists.



ATB Riva Calzoni has the capability to carry out the design according to all Codes and Standards (DIN, CECT, ASME, AISC, AWS, BS British Standards, etc.) in the following areas:

- **Hydraulic, Mechanical and Structural Design**
- **Electrical Equipment and Hydraulic Power Unit**
- **Erection Engineering**

Design is accomplished with the latest 3D modelling systems including CFD and FEM analyses. ATB Riva Calzoni is also able to provide for the design and supervision of Physical Modelling Testing, performed by partner laboratories in Italy and around the world.

ATB Riva Calzoni has a very long experience and large number of references for all kind of gates:

Spillway radial gates

Power Intake wheel gates

Bottom Outlet sliding gates

Bottom Outlet radial gates

Bulkheads and Stoplogs

*All these **gates** are supplied on a **turn-key basis**, from design to site erection and commissioning, complete with operation and control equipment.*

PRODUCTS **PENSTOCKS**

Since its foundation, ATB Riva Calzoni has met the growing needs of Italian industrialization and has become **the leading manufacturer in the supply of high pressure pipes for penstocks applications.**

The design of banded penstocks (externally reinforced with hot fitted forged rings) has long been one of the ATB's patents around the world. These penstocks can withstand very high heads using relatively thin plates which are easy to weld and install on-site.

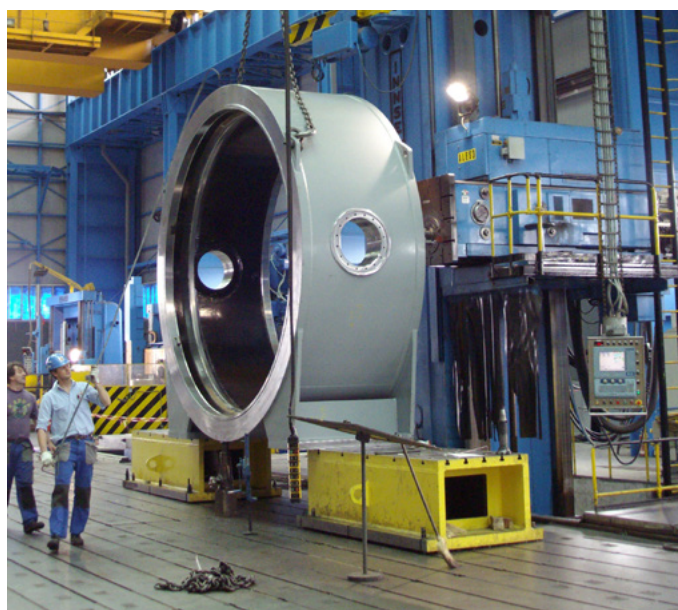
In the last few years, the Company has also developed welding of high strength quenched and tempered steels, with considerable savings compared with the traditional carbon steel pipe works.

The company has reached the following achievements in the design, supply and installation of hundreds of penstocks all over the world:

- Diameter up to **11.00 m**
- Water head higher than **2,000 m**
- Thickness up to **100 mm**
- Material grade up to steel **S890**



PRODUCTS **VALVES**



ATB Riva Calzoni has decades-long experience with large number of references in providing for several types of valves:

- Butterfly valves
- Howell-Bunger valves
- Gate valves
- Regulating valves

All these valves are supplied **on a turn-key basis, from design to site erection and commissioning, complete with operation and control equipment.**

References

Among the major hydropower projects, ATB Riva Calzoni provided Penstocks and Hydromechanical Equipment for:

KARAHNJUKAR 690 MW - Iceland

GIBE II 420 MW , BELES 460 MW - Ethiopia

PORCE III 660 MW - Colombia

BAKUN 2'400 MW - Malaysia

THEUN-HINBOUN EXPANSION 440 MW - Laos

TOCOMA 2'300 MW - Venezuela

SOGAMOSO 820 MW, QUIMBO 400 MW - Colombia

NATHPA JHAKRI MODIFICATION 1500 MW - India

CERRO DEL AGUILA 510 MW - Peru

ITUANGO 2'400 MW - Colombia

BEAUMONT MONTEUX 45 MW - France

MASSINGIR IRRIGATION PROJECT - Mozambique

NAM THEUN 1 650 MW - Laos

ALTO MAIPO 530 MW - Chile

SITE C 1'100 MW - Canada

KOYSHA 2'160 MW - Ethiopia



ATB Group world presence



Facilities



150'000 sqm - Roncadelle - Italy



24'000 sqm - Marghera - Italy



8'500 sqm - Artogne - Italy



9'000 sqm - Girardota - Colombia



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