

# Company presentation

Reliability beyond tomorrow.

TROYER SPA  
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„Reliability beyond tomorrow.“ taking responsibility – for today, tomorrow and beyond. Following this guiding principle, the South-Tyrolean company has specialized itself in building water turbines and power plants and wants to give in this way its contribute to the energy transition.



Plant I – modernized in 2017



Plant II – built in 2010



Plant III – built in 2015

## 1. Company profile

The traditional company Troyer SpA located in Vipiteno used the boom in the sector of the small and middle-sized hydropower plants with a capacity ranging from few kilowatts up to 30 MW. Founded in 1934 by Valentin Troyer as an electromechanical repair workshop, the company soon specialized itself in supplying small hydroelectric power plants and became quickly well known in South Tyrol and not only. Over the years, the family-owned company grew into a considerable industry business and today employs a staff of more than 140 and generates annual sales of 22 million euro.

Company name:	Troyer SpA
Corporate form:	private Stock corporation (“Società per azioni” / “Aktiengesellschaft”)
Tax / VAT no.:	IT01510320219
Registered office:	Via Karl von Etzel 2, 39049 Vipiteno (BZ), Italy
Contact:	Tel. +39 0472 765195      www.troyer.it      info@troyer.it
Field of activity:	Planning, development, production, assembly and commissioning and service of hydroelectric power plants and control systems
Year of foundation:	1934
Personnel structure:	16 % certified degreed engineers (M.Eng.) and university graduates 7 % degreed technicians 2 % master craftsmen 53 % specialized technical staff 16 % administrative officers 6 % laborer and custodial workers
Sales markets:	Italy, Austria, Germany, Switzerland, Norway, Iceland and Latin America



The third generation:  
Shareholders and members of the Board of Directors: Simone Bressan, Stefan Troyer, Norbert Troyer

## 2. Divisions

The distinguishing mark of the company is, that Troyer SpA from the beginning strives to develop, design, manufacture, assemble and commission every part of the power plant by itself - from the turbine to the power grid. The activities span over a wide range of tasks from the mechanical engineering to the fluid mechanics, the electrical engineering, the control and automation systems, including the software programming. All this is attentively executed by experienced specialists in perfect cooperation. Most plant components are manufactured by own employees at the headquarter located in Vipiteno.

**Mechanical engineering:** the power plants are planned and designed in 2D and 3D CAD systems.

**Electrical engineering:** the planning and design of the switch and control systems is done with latest software programs.

**Machine construction factory:** the mechanical components are manufactured on CNC-controlled machinery and processed in the welding shop.

**Electronic engineering factory:** assembly and testing of the electric control cabinets.

**Quality assurance:** all mechanical and electric components are undergo several inspections and quality controls.

**Automation:** the visualization and control is individually customized to each power plant.

**Service:** for regular maintenance, inspection and replacement of spare parts.

**Electromechanical factory:** for service and maintenance of the electric machinery.

**Research & Development:** Studies to better understand and improve the operating behaviour of turbines and their components and to develop new applications, executed by fluid dynamics analyses, field measurements etc.



### 3. Established hydro power technology from Vipiteno

Though presently the industrial trend is to outsource, Troyer's philosophy to develop and produce most components by its own has turned out to be successful. This approach has been appreciated by the market and is confirmed by several orders for machines up to over 25 MW in Italy, Austria, Germany and Switzerland over the last years.

The continuous development of the hydraulic active parts as well as the control and automation systems are essential to remain successful as an all-rounder against the big technology leaders on the market. The teams of technicians of Troyer SpA work close to each other through several departments and also in close collaboration with the customers in order to create and achieve new ideas and improvements from the daily experience. Therefore, they are always updated to the latest state of technology, but maintain at the same time a simple approach, in order to focus on robust, reliable and maintenance friendly solutions. This has allowed Troyer SpA to obtain important orders from demanding customers of well known energy supply companies.

The assembly and commissioning teams come as the last part of the production process and often have the most demanding job, because they have to work under challenging conditions and have to use all their know-how to start-up the machines within shortest time. Scrupulous work and compliance to different specifications are required on the building site in order to complete the commissioning under time pressure and with often adverse conditions. Our technicians need to have flexibility and a problem-solving attitude in order to meet the customer's high expectations.



Power plant "Maisonettes", Valle d'Aosta, Italy, Year 2020

## 4. Resources

The company in Vipiteno consists of three production sites for a total surface of approx. 7.732 m<sup>2</sup>, disposed as follows: technical offices and administration (approx. 1.515 m<sup>2</sup>), mechanical production workshop (approx. 3.700 m<sup>2</sup>), electrotechnical production site (approx. 1.217 m<sup>2</sup>) and storage area (approx. 1.300 m<sup>2</sup>). In addition, the company is equipped with highly modern machinery for extensive in-house production.

During a project, the customer has to deal with just one contact person, responsible for the whole processing and execution of the works. The execution of the project – planning, design, construction, engineering, electrical and electronical production as well as assembly and commissioning from one source – guarantees a perfect work process.

Troyer SpA has over 85 years of experience with turbines and construction of hydro power plants and continues developing its know-how, by collaborating with acclaimed technical consulting experts of different universities.

Service and maintenance operations are carried out quickly and efficiently by own staff members. This is a considerable advantage for the power plant owners, because it reduces significantly maintenance costs and the time of intervention on site.



Components of Troyer SpA are used for many international hydro power projects

## 5. Certifications

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Health and Safety Management System

EN ISO 3834-2 Quality requirements for fusion welding of metallic materials

SOA Cat. OG9 KI. VII – Cat. OG10 KI. V – Cat. OS16 KI. V

## 6. Troyer Suisse AG

For several years now, Troyer SpA has built and installed turbines for hydro power plants in Switzerland. Presently 58 plants have been installed and are operated with success for a total of 118 MW of installed power.

The excellent collaboration with swiss customers and authorities led in 2013 to the creation of an office in Landquart. Troyer Suisse AG is a subsidiary of the South Tyrolean company and takes care of the complete planning and construction of turbines and power plants. The company mainly focuses on the customer support and service. Mr. Manfred Moling is the director and Mr. Pius Schwitter is the sales manager of Troyer Suisse AG.

With Troyer Suisse AG the Swiss planners and hydropower customers can rely on a competent and reliable partner with long time experience.

In future, Troyer Suisse AG wants to enter also the French market.

## 7. Troyer Hydro Pvt. Ltd.

TROYER HYDRO Pvt. Ltd, Troyer's new branch office in New Delhi, India, was founded in June 2021. It is headed by Mr. Pawan Dhakal as Managing Director and supported by Mr. Vikram Gupta as General Manager.

With this new office, Troyer coordinates all projects in Asia, ensuring direct and constant contact with customers and local partners.

Shortly after the establishment of the new subsidiary, the first contract was signed for the construction of the first plant in Asia. This first hydroelectric power plant in Nepal, for which Troyer is supplying all the electromechanical equipment, will be put into operation in the summer of 2022 and will generate over 9.05 MW of electricity.



References



Anlage "Gere", Obergoms, Schweiz, Baujahr 2020



Anlage "St. Anton", Bozen, Südtirol, Baujahr 2018