

Ingeteam

Ingeteam Power Technology S.A. Industrial Systems Division

Provides Automation Solutions, Energy-Efficient Drive Solutions also Electrical Equipment for water networks, water transportation, treatment of desalinating, drinking water and wastewater plants.

Founded in 1972, Ingeteam Power Technology's, Industrial Systems Division (IPT) is an internationally renowned and leading company in the supply of global state-of-the-art engineering services; a company that develops electrical engineering and control systems for the industry. It is experienced in a wide spectrum of industrial environments, highly skilled in project management, integration of systems and engineering as well as project execution and commissioning.

Ingeteam Power Technology's S.A., Industrial Systems Division specialises in electric drives and industrial automation processes. The Industry Unit develops systems, using the most advanced technologies available in the market, geared towards improving industrial monitoring and control functions.

SOLUTIONS FOR WATER & ENVIRONMENT

Distribution networks

Using network management solutions for real-time monitoring and control of distributed water systems.

Industrial treatment

Providing electrical and automation products, systems, for turnkey projects with an electrical scope for industrial water, and wastewater treatment applications.

Pumping

IPT Provides a wide range of products and systems covering electrical, automation and instrumentation equipment for municipal water and wastewater treatment applications. IPT also provides engineering solutions including plant optimization as well as energy efficiency services to lifecycle support.

Desalination plants

Providing a wide range of products, standalone automation and optimization systems. Integrated Instrumentation, Controls, and Electrical (ICE) solutions covering both electrical and automation for RO (Reverse Osmosis), MSF (Multi-Stage Flash) and MED (Multiple-Effect-Distillation) plants.

GENERAL SERVICES

Management / Project Coordination

Provision of human resources to control and monitor the integral development of each project.

Engineering and Documentation

Analysis, design and execution of the basic and detail engineering, electrical equipment and automation.

Energy Distribution

Supply of Medium Voltage Switchgear, power transformers and auxiliary installation for the distribution of energy.

Drive Systems

Regulation of motors and electric generators using electronic power equipment of in-house design and manufacture.

Integrated Automation Systems

Design of level 1, level 2 and TCS (Technological Control System) hence, improving data management and optimizing processes built values.

Workshop Tests

We have our own installations to carry out tests on equipment, and check software in hardware platforms.

Electrical Installations

Supervision and execution of the complete installation based on developed engineering and the applicable standards.

Commissioning

The technical personnel that participated in the previous phases of a project will also be in charge of its execution.



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ENERGY-EFFICIENT DRIVE TECHNOLOGY THE MOST EFFICIENT WAY TO SAVE MONEY

The deciding factor for pump and blower station availability and efficiency in the water industry is drive technology. This calls for reliable, long-term, continuous operation.

An absolutely failure-free operation is essential, as well as maximum efficiency, because when drives run continuously, energy costs are a top priority. IPT's portfolio for the water industry includes motors and low- and medium-voltage frequency converters. The motors and converters integrated in our solutions, ensure optimal pumping processes – with maximum availability and minimal operating costs.

Variable speed drives can help our customers to make significant energy savings when compared to traditional regulation methods. For example, energy savings of 50% compared to a throttle-controlled fixed speed pump are typical, and the payback time of the additional investment is sometimes as little as one year.

Our variable speed drives and scalable programmable logic controllers (PLCs) feature built-in application functions to control flow, pressure and level.

PROCESS CONTROL AND AUTOMATION SOLUTIONS FOR WATER AND WASTEWATER INDUSTRY

Our automation solutions provide users with a comprehensive view of the plant by integrating data from all plant areas and systems, including remote SCADA systems. The control system's open architecture can seamlessly consolidate and rationalize plant data and enhance operator response to changing conditions, improving both plant safety and uptime.

IPT control technologies offer high operational security, maximum availability, remote maintenance possibility and an easy and quick way to upgrade to a new generation of control systems.

CONTROL TECHNOLOGY

Measurement, control and distribution

- Programmable Logic Controllers (PLC).
- Human Machines Interfaces (HMIs).
- SCADA Software.
- Instrumentation (pressure, level, flow).
- Drives and motors in LV and MV.
- Motor Control Centres (MCCs) and accessories.

IPT expert SCADA control technology is applied in numerous applications, including:

- Automated, unattended operations
- Pump stations
- Remote operations
- Remote telemetry units
- Security functions
- Sewer diversion
- Wastewater collection
- Water distribution
- Water distribution and collection
- Water irrigation systems
- Water reclamation
- Weather monitoring

Whether desalinating seawater, treating drinking water and wastewater or managing water networks and water transportation – intelligent automation products and systems as well as energy-efficient drive solutions and comprehensive services provide the right solutions to help our customers with the daily tasks.

Ingeteam

READY FOR YOUR CHALLENGES

