



ENERGY
FOR A
SAFER
FUTURE



THYTRONIC
ENERGY FOR A SAFER FUTURE

OUR COMMITMENT TO THE FUTURE



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Every day we ask ourselves how to meet the challenge for a future in which electricity, from generation to distribution, will be a resource to be protected and used in an increasingly responsible way. Our answer to these important challenges is nearly 60 years of experience in the designing and manufacturing protective relays and digital systems for safe, reliable and smart power grids.

Thytronic operates in a market undergoing profound change. The importance of electricity and its access is increasingly central. Climate change and the carbon neutrality goals that governments and the European union have set for themselves by 2050 are forcing a rethinking of energy management and new strategies to ensure a sustainable energy mix. While renewable energy sources will have to be enhanced, these alone will not be enough to cover the ever-increasing demands for electricity. New electricity grids will have to be more and more flexible, reliable, smart and safe. This is our commitment: to use all our energy for a safer future



THYTRONIC GROUP

WHO WE ARE

Thytronic is an Italian company that has been able to innovate and keep up with the times in almost 60 years of activity, that has been able to interpret the changes in the market and in the environment in which it operates, always with a look to the future and to the new challenges.

A GROWING COMPANY

Thytronic is today a company with a global presence that designs, manufactures, integrates and provides solutions for the protection, automation, control and monitoring of power grids.

In a niche and rapidly evolving market, we are able to respond to increasingly challenging needs such as the digitization of grids, or the integration of renewable sources into distribution and transmission networks.

OUR PATH

1965

Company foundation: Founded in 1965 as a small manufacturing protective relays Company, based in Italy.

1980

Introducing the Denova S Series The first complete analog relay family by Thytronic. A line of protective relays made by modular systems for protection of electrical plants.

1995

ISO 9001 Certification Thytronic obtains the ISO 9001 Certification, based on a number of quality management principles including a strong customer focus, the motivation and implication of top management, the process approach and continual improvement.

2000

Complete solution Thytronic can offer not only cutting-edge products but also complete solutions in the electric power industry.

2005

Introducing the Smart Line family Smart Line is the Thytronic low-cost digital protection relay line designed and developed to cover OEM's and industrial applications.

2006

Introducing the PRO N family Pro-N is Thytronic high-end and comprehensive solution for power generation and distribution Protection & Control suitable for a wide range of applications.

2011

Thyeast: Thytronic lays the foundation for its path of internationalization by opening a commercial office in Turkey.

2013

Introducing the PRO N Extended family. The first complete analog relay family by Thytronic. A line of protective relays made by modular systems for protection of electrical plants.

2017

IGRID T&D, a Spanish company that offers highly advanced scalable solutions for automation, supervision and control of electrical networks, joins Thytronic Group.

2020

Introducing the XMORE family: XMORE is the most advanced products family from Thytronic for the protection of power grids in the generation,transmission and distribution phases. Thanks to its modularity, it is the ideal solution to meet all the needs of the electrical market.

2021

Thytronic acquires ELE. COS, an Italian company specializing in the design and implementation of control systems for power grids, joins the Thytronic Group. Thytronic Group moves from product supplier to provider of integrated control, automation and protection systems for power grids.





OUR VALUES

We are the result of almost 60 years of independence in a big players market; almost 60 years of experience in manufacturing the most reliable solutions for power grids; almost 60 years of passion, flexibility, energy, protection.

▼
ENERGY

Energy is our strength. It's the passion that drives us to move forward dynamically and enthusiastically, towards a safer, more protected and brighter future.

▼
SAFETY

Safety is our starting point. It's the value that embraces everything we do, it's our main goal, it's the light that guides us.

▼
FUTURE

The future is in our hands. It's something we feel responsible for every day, and something we will do our part towards to make safer, brighter and more inclusive for everyone.



CUSTOMER AT THE CORE

We know how to listen to our Customers: we are a dynamic and flexible company. We prefer direct communication with our clients that allows us to listen and analyze to better respond to increasingly challenging needs and requirements.

INNOVATION IS THE FOUNDATION OF OUR SUCCESS

A highly qualified and motivated staff permits us to offer an avant-garde product and service which meet all protective, safety and continuity demands.



OUR PRODUCTS

OUR PRODUCTS

Thanks to recent acquisitions in part, Thytronic has expanded its expertise and product portfolio from a product supplier to a solution provider. Thytronic is now able to provide comprehensive solutions and services for monitoring, control, protection, and automation of power grids

PROTECTION RELAYS

XMORE / PRO - N / SMARTLINE

RTU GATEWAYS BCU

iGW / iRTU / iRTU compact / iBU / UPDM

SCADA / CONTROL CENTER / HMI

iControl Generation Dispatcher / iControl ADMS

ENGINEERING

Electrical engineering / Architecture of control systems / PLC: sequencing and control / SCADA configuration and remote control

SERVICES

Selectivity and coordination studies / Technical training / Technical support / Technical service

PROTECTION RELAYS



PROTECTION RELAYS

THYTRONIC protection relays provide wide choices for the protection and monitoring of electrical power systems guaranteeing the safety, reliability and efficiency required for operation in complete safety.



FEEDER PROTECTION
Protection relays for distribution feeders and transmission line back up.



MOTOR PROTECTION
Protection and control relays for asynchronous motors of all size for any kind of drives.



TRANSFORMER PROTECTION
Protection relays for two or three windings power and distribution transformers.



GENERATOR PROTECTION
Protection and control relays to ensure any size of generator protection within hydro, steam, thermal power generation.



GRID INTERCONNECTION PROTECTION
Protection relays for safe interconnection of any type of customer and renewable sources to the utility grid.



CAPACITOR BANK PROTECTION
The specialized solution for single/ double Wye grounded/ ungrounded capacitor bank and harmonic filter.



SECONDARY MV PROTECTION
Self-Powered protection relays and advanced Fault Locator designed for protection and automation of medium voltage grid with any type of grounded system.

AUTOMATION, MONITORING AND CONTROL SYSTEMS

A complete solution for automation, supervision and control of power grids, ensuring maximum scalability, from small distribution substations to complex transmission systems.



RTU (REMOTE TERMINAL UNIT)

A new integrated and scalable platform designed for automation and remotization of HV and MV distribution Substation.



BCU (BAY CONTROL UNIT)

Advanced and compact BCU providing high density I/O, access to IED's through several communication protocol, analogue AC/DC input, a full color HMI for local control and Digital Fault Recording.



GATEWAY

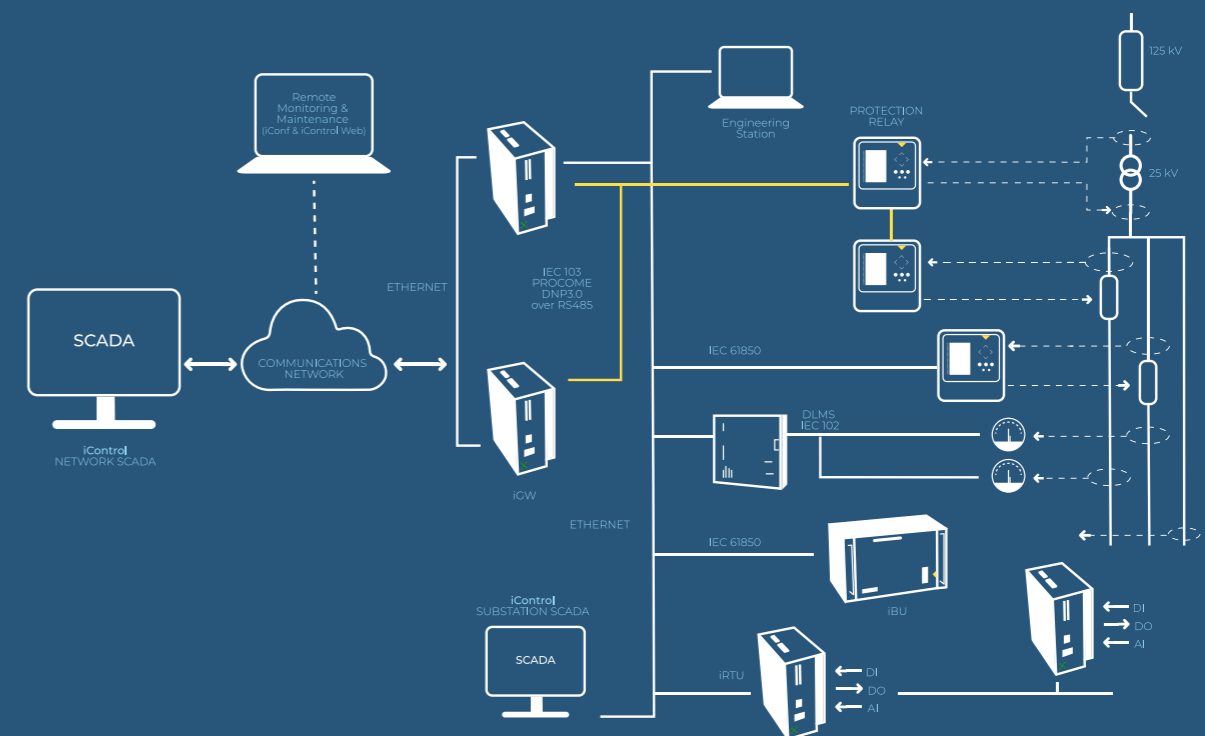
The smart and highly adaptable platform for Substation automation, data concentration, multi protocol conversion.



SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION)

SCADA for Substation Automation, Power Distribution Systems & Automated Generation Control.

SUBSTATION AUTOMATION SYSTEM



ENGINEERING SERVICES

Through the acquisition of ELE.COS, an engineering company with long experience in hydropower, Thytronic provides automation engineering services for a wide range of clients operating in power distribution and transmission.

Our engineering team is able to study systems from scratch, retrofits and/or adaptations to the customer's required solution, solving any integration problems that may occur.

Our team of specialists applies the highest quality standards; from the analysis of customer requirements and specifications, through outline and detailed design, system development and testing to on-site commissioning.

Our services include:

- ▼ Component definition
- ▼ Mechanical drawings
- ▼ Electrical diagrams
- ▼ Engineering and production of control panels and stall protection
- ▼ Fully documented automation scripts
- ▼ Integration of third-party devices and compatibility testing
- ▼ In-plant installation and commissioning



STUDY OF PROTECTION SYSTEM ENGINEERING AND AFTER-SALES SERVICES

A proper study of the protection system and its parameterization are crucial for both availability and security of the power grid.

Thytronic, with a dedicated team of application engineers, offers services for the selection, setup, configuration and commissioning of protection relays.

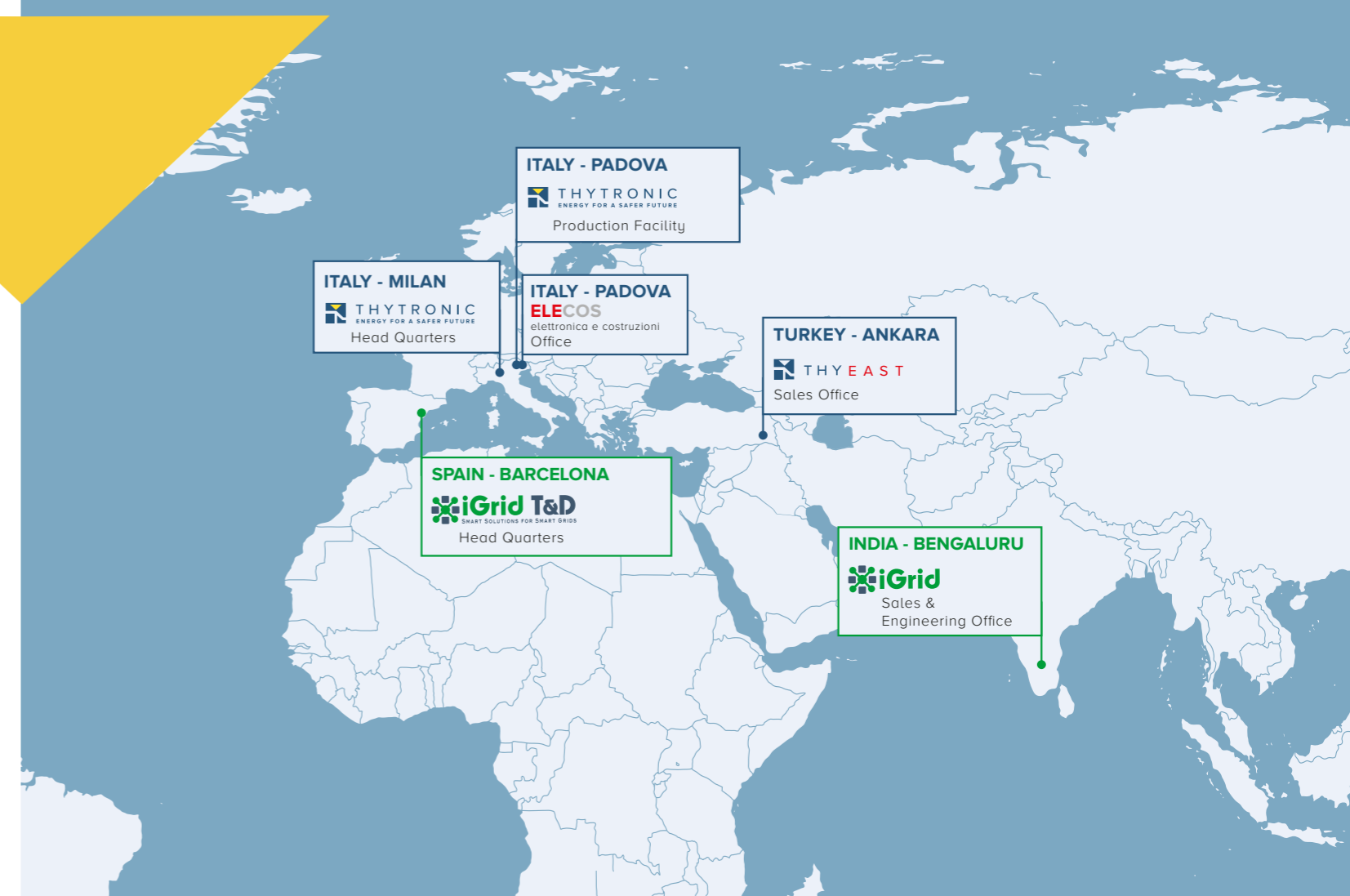
Our services include:

- ▼ Design of the protection scheme
- ▼ Selection of the Thytronic protection system best suited to the network requirements and protection scheme
- ▼ Design and provision of documentation and application diagrams
- ▼ Setting up the protection relays
- ▼ From short circuit study to coordination calculations, Thytronic provides the best configuration of IEDs to isolate the failed network trunk to avoid damage to equipment, risk to operators, and ensure continuity of service.
- ▼ Testing and field commissioning of protective relays
- ▼ After-sales services and maintenance

QUALITY AND ENVIRONMENT

The application to all our business processes of our quality system, certified according to ISO 9001, is what guarantees our clients the best solution to their needs. The application of the strict standards set forth in ISO 45001 for safety in the workplace certifies our commitment to always promote and protect the health and well-being of our staff and employees.

- ▼ ISO 9001 Quality control certification
- ▼ ISO 14001 Environmental certification
- ▼ ISO 45001 Safety certification
- ▼ ISO 14067 Certification obtained on several product lines for verification of the climate footprint over the entire life cycle
- ▼ ISO 27001 Standard for cyber-security management system
- ▼ IEC 62443-4-2 ML2 Standard for production cyber-security management system



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