



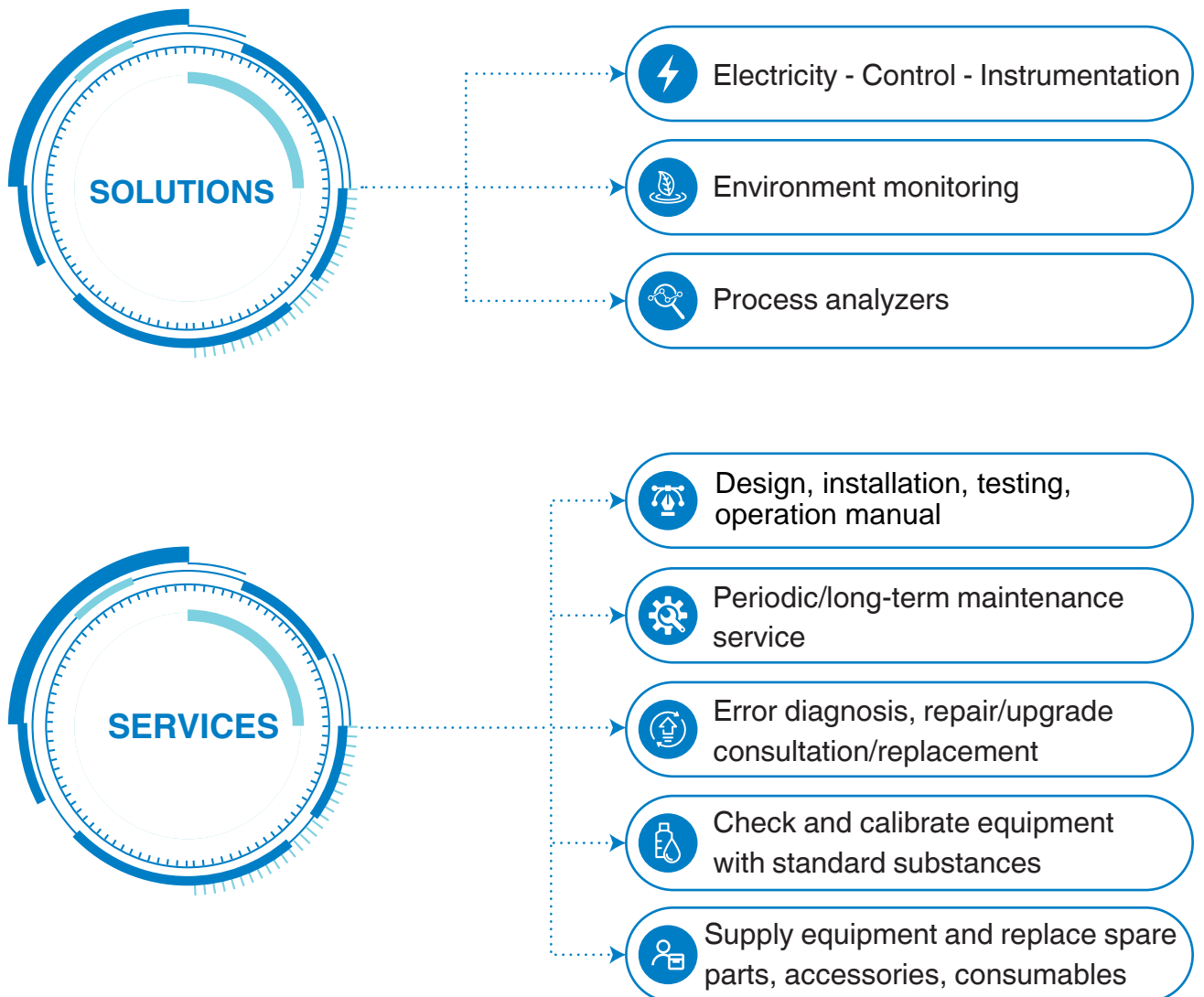
# THANH THIỆN TECHNOLOGY JSC



## COMPANY OVERVIEW

Thanh Thien Technology Joint Stock Company (Thanh ThienTechnology JSC) was established in 2013 by a highly qualified team, well-trained, and experienced founders as well as associates in the industry. With the passion and enthusiasm in advanced technology in the world, Thanh Thien brings to the market technical solutions, services and equipment for electrical equipment - control - measurement, analysis for industries such as oil and gas, energy (electricity - thermal power), cement, iron and steel, fertilizers and chemicals, F&B, etc. and environmental monitoring.

## BUSINESS FIELD



## THANH THIEN STRENGTHS:

- ✓ The ability to provide all-in-one solutions or specialized technical services is trusted by partners and customers.
- ✓ Providing the most suitable solution to all customer requirements, especially complex technology systems and strict operating environments in specific industries such as oil and gas, refining and petrochemical, fertilizer - chemical, electricity - thermoelectricity, etc.
- ✓ Experienced and professional engineers with in-depth technical knowledge and high responsibility.
- ✓ Professional and effective project management capacity.
- ✓ Strategic partners of the world's leading equipment suppliers.



*The benefits and satisfaction of customers are the guideline in all activities of Thanh Thien. We are committed to bringing the best services and solutions with reasonable cost in the shortest time. We always focus on investing in advanced technology research, optimizing efficiency based on available strengths, along with contributions from domestic and foreign partners to become a reliable supplier and among the top choices of our customers.*

*We are proud to contribute to the success of our customers not only through our company's solutions and services, but also through our respect and responsibility for customers, partners and the community.*



### VISION

Becoming a reputable high-quality technical service and international solution provider in the field of electricity - control - instrumentation and analysis in the region and in the world.



### MISSION

Providing the best technical solutions, services and equipment with a high sense of responsibility and professional working attitude, respect for customers, partners and the community.



### CORE VALUES

- **Trust:** Our whole company works together to gain the trust of customers, partners and shareholders through a solid, transparent and professional operating platform.
- **Quality:** We pursue the highest quality in all our work, following the principles of safety, organization, method, system and completeness.
- **Respect:** Our cooperation is based on professionalism and respect for our colleagues, customers, partners and the community.
- **Dedication:** We are dedicated in our work, with the desire to contribute our efforts for a modern, clean and safe environment for the community.



### CERTIFICATES

With the orientation of sustainable development, long-term business strategy, focusing on improving the quality of customer service, Thanh Thien has been implementing all activities according to the Quality Management System ISO 9001:2015; Occupational Health and Safety Management System ISO 45001:2018.

The application of the above standards has helped Thanh Thien enhance operational improvement in governance and administration, in quality management and increase the working efficiency of its staff. Besides, Thanh Thien can also save time, costs and resources in business activities and strictly implements safety work at all of our working and construction sites. Thereby bringing added values and quality assurance to customers, partners and the community. We are continuously improving the quality of our operations.

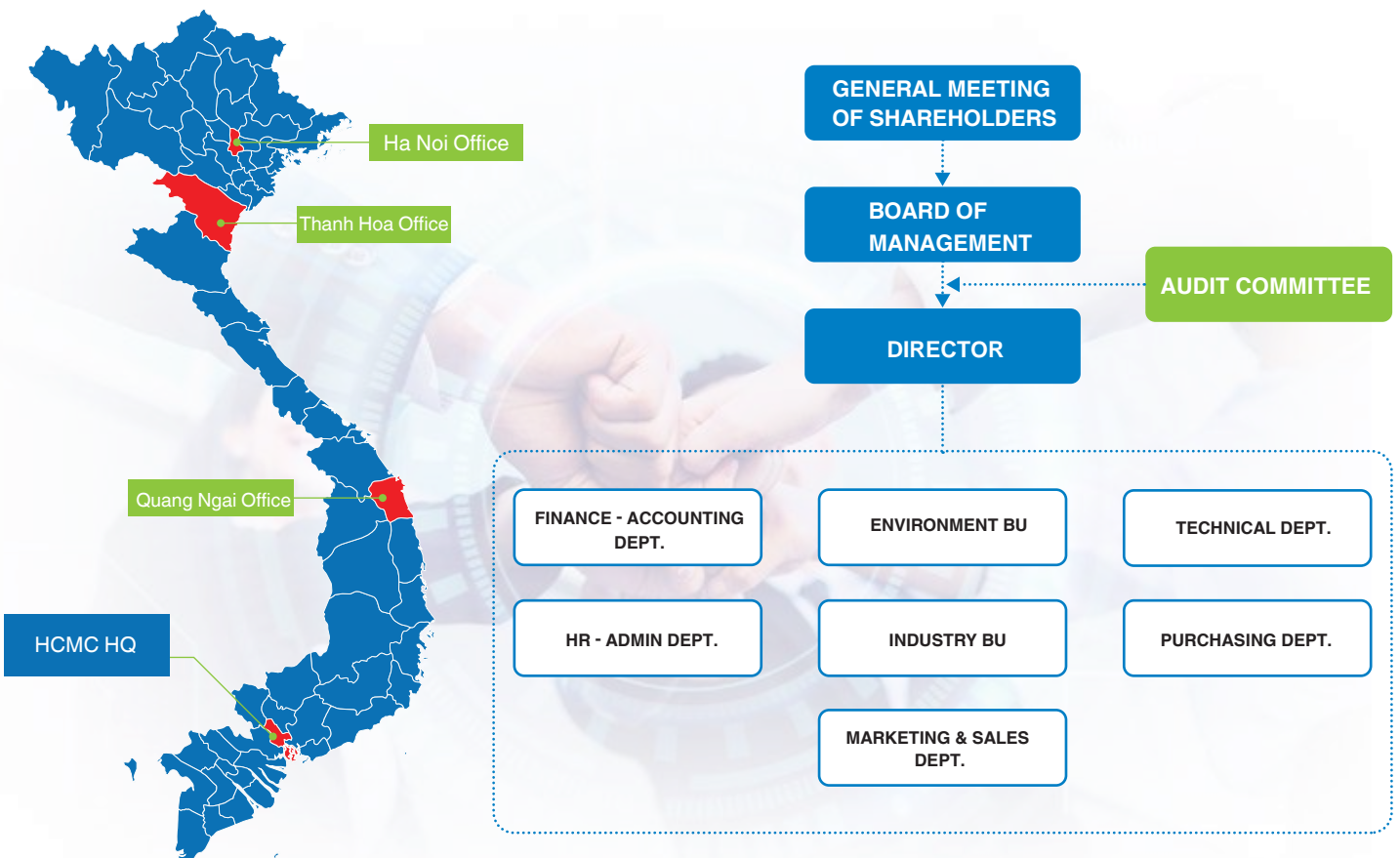


Quality management system **ISO 9001:2015** certified



Occupational health and safety system **ISO45001:2018** certified

### ORGANIZATIONAL CHART



## TTT OFFICE - A PLACE TO CONNECT EMPLOYEES

In order to quickly and promptly respond to the needs of customers and cooperate with partners, Thanh Thien has placed four representative offices throughout the country. Our motto in developing the offices is ***Behind the success of the collective is a place to unite members***. Understanding this, Thanh Thien always aims to build a friendly, professional and supportive working environment, creating cohesion, solidarity and pride of all company employees. A positive space will contribute to arousing creativity and motivation in the work of employees. A comfortable and well-equipped office yet aesthetic and elegant also contributes to honoring the professionalism of the business to customers and partners.



The workshop is fully equipped with tools, equipment and machines for installation, integration, checking, and testing before handing over to the project sites.



# BUSINESS SCOPE

## Municipal water monitoring

Measure and control water quality on pipelines (pH, chlorine, turbidity), flow and pressure

## Underground water monitoring

Level, flow, etc.

## Process gas analyzer

Inorganic gas (H<sub>2</sub>, N<sub>2</sub>, Ar, CO, CO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, etc.), Hydrocarbon (CH<sub>4</sub>, C<sub>2</sub>H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>4</sub>, C<sub>3</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>4</sub>, C<sub>5</sub>, C<sub>6</sub>, BTX, C<sub>8</sub>, etc.), amines, organic salts, etc.

## Laboratory equipment

In-depth analytical equipment  
Field monitoring equipment for soil - water - gas environment

## Process liquid analyzer

pH, TSS, Color, COD/BOD/TOC, Ammonium, Water cut, Nitrates, Sulphides, Chromium, Phosphate, DO/EC, hydrocarbons (RON, MON, cetane, aromatic, benzene, olefin, etc.), etc.

## Continuous stack emission monitoring

SO<sub>2</sub>, NO<sub>x</sub>, CO, O<sub>2</sub>, total dust, flow, temperature, pressure, NH<sub>3</sub>, HCl, HF, Hg vapor, VOCs, etc.

## Surface water quality monitoring (rivers, lakes, etc.)

pH, temperature, TSS, COD, DO, turbidity, TDS, NO<sub>3</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, NH<sub>4</sub><sup>+</sup>, Total P, Total N, TOC, etc.

## Ambient air quality monitoring

SO<sub>2</sub>, NO<sub>2</sub>, O<sub>3</sub>, CO, PM<sub>10</sub>, PM<sub>2.5</sub>, total TSP, PM<sub>1</sub>, Benzene, Toluene, Ethyl benzene, Xylene, Methane, NH<sub>3</sub>, Formaldehyde, etc.

## Manufacturing plants and industrial facilities for mining and processing onshore or offshore

Electrical system: power distribution cabinet, motor control cabinet, light electricity, etc.  
Automatic control system: DCS, PLC/SCADA, ICSS  
Process measurement equipment: temperature, pressure, flow, level, balance, etc.

## Wastewater quality monitoring

Flow, pH, temperature, TSS, COD, NH<sub>4</sub><sup>+</sup>, color, total phosphorus, total nitrogen, TOC, residual chlorine, heavy metals, etc.

## COMPANY'S ABILITY AND EXPERIENCE

With many years of experience in implementing projects in industries with strict requirements for quality and safety such as petrochemical, chemical, energy, etc. as well as being well-trained by expert partners and large, reputable manufacturers around the world, Thanh Thien has built and developed a team of dedicated engineers and experts within the country and abroad, with in-depth technical knowledge and experience to bring professional services and the most completed solutions to customers:

### 1. ELECTRICITY - CONTROL - INSTRUMENTATION

Combining knowledge in energy technology, inverter technology, equipment, process, and automation technology to provide a comprehensive integrated solution for the industry, including:

- Medium voltage: switching equipment, power metering, direct and spreading lightning protection, inverter
- Control - measurement: data control and monitoring system (DCS/PLC - SCADA), Integrated control and safety system (ICSS), measuring equipment (temperature, pressure, flow rate, level, weight, etc.)



### 2. ENVIRONMENT MONITORING

#### 2.1 Ambient air quality monitoring system (AQMS) solution

Provide all-in-one solutions to monitor components in the air in urban areas, residential areas, industrial zones, tunnels, etc. in order to provide data on the environment of the monitoring area for people and state management agencies.



## 2.2 Continuous emission monitoring system (CEMS) solution

Providing a comprehensive solution to monitor the quality of stack emission to assess the efficiency of the production process and the emission treatment system, quickly providing data to help the factory and the authorities monitor, inspect and promptly detect environmental incidents, making practical contributions to environmental protection.



## 2.3 Water quality monitoring solution

Provide a complete solution for monitoring water components including:  
Continuous automatic wastewater monitoring system: helps to monitor and evaluate the composition of wastewater after treatment before being discharged into the environment to assess the efficiency of the production process and wastewater treatment system, quickly providing data to help authorities easily monitor, inspect and control, making practical contributions to environmental protection.



The system of automatic and continuous surface water and groundwater monitoring and water resources exploiting helps to monitor and evaluate water quality in rivers, streams, ponds, lakes... and underground water sources, in order to provide data quickly, helping authorities to conveniently monitor, check, control, detect abnormal parameters and promptly warn about the risk of pollution and environmental degradation.





**2.4 Software to monitor, collect, store and transmit data**

Ensuring compliance with the provisions of the Law, and providing useful tools to help enforce and optimize the time of periodic monitoring, inspection, control and supervision.

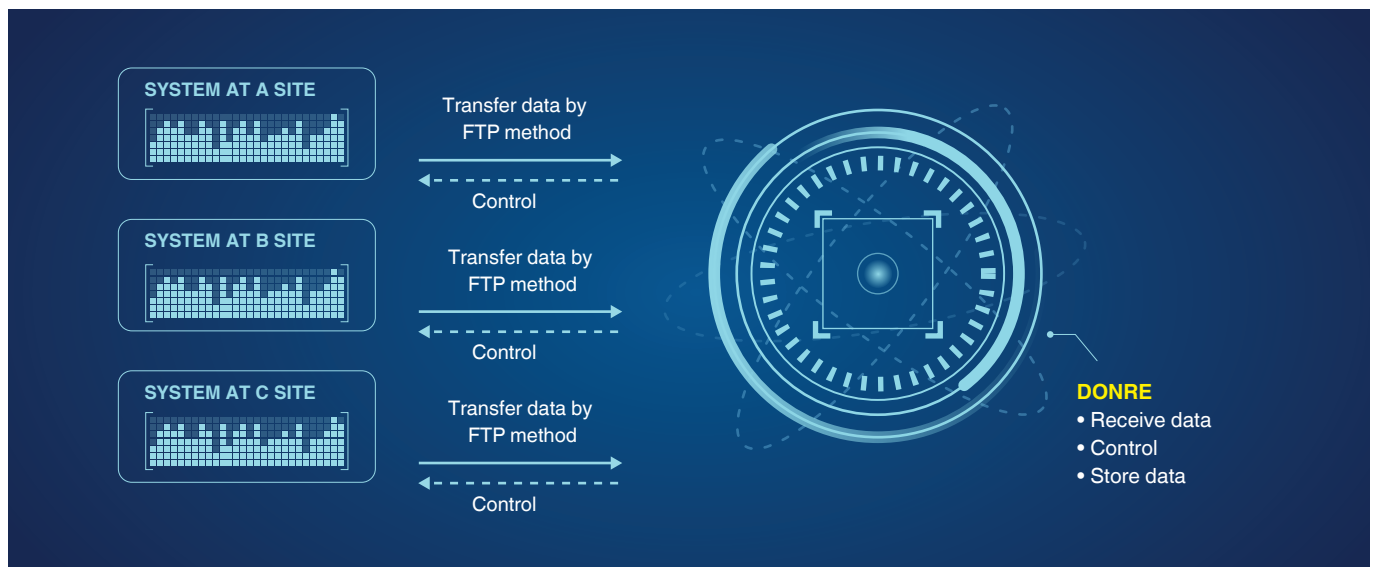
**Some features are as follows:**

**• Basic features:**

- + Receive data from monitoring stations according to FTP protocol.
- + Remotely control monitoring value via computer, phone.
- + Warn over threshold, displayed.
- + Create an account to manage and operate.
- + Report in excel file format.

**• Advanced features:**

- + Send an alarm message over threshold to the set phone numbers.



### 3. PROCESS ANALYZER

Thanh Thien is a leading system integrator in Vietnam providing a full-service solution for gas/liquid analysis in technology with the aim of maximizing productivity and product quality, as well as save raw materials and input fuel, reduce loss and damage in the production process.

We are proud to be the first Vietnamese company to design, integrate, install and transfer a complete gas chromatography system for a refinery and petrochemical plant with 100% deployment of Vietnamese project engineers.



### 4. TECHNICAL SERVICES

Thanh Thien is proud to be one of the leading units providing technical services with a team of engineers who are trained and certified by many manufacturers, with high expertise and extensive experience. We provide specialized service packages with high reliability and quality to many large domestic factories.

- Design, installation, testing, operating manual
- Upgrade - Transformation
- Calibration
- Maintenance
- Supply of equipment and replacement of spare parts, accessories and consumables





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## **THANH THIỆN TECHNOLOGY JSC**

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