



SETECH SERVICE





SETECH SERVICE COMPANY LIMITED

Add: No.2, Alley 164/81 Y La Street, Doan Ket Cluster, Duong Noi Ward, Ha Noi City, Vietnam
Office: No. DG 12-29 KDG Mậu Lương, Kien Hung Ward, Hanoi City, Viet Nam
Office: DD9-21, Vinhomes Ocean Park 2, Van Giang Ward, Hung Yen Province, Vietnam
BR No: 0106462149 **Website:** setechs.asia **Email:** setechs@setechs.asia **Tel:** +84 38 723 9399

Saving Energy Technology

ABOUT US

Established in 2014, SETECH SERVICE provides world-class technologies, products, and services in the areas of energy efficiency, operational reliability, and asset integrity to customers across Vietnam.

Our strategy:

At SETECH SERVICE, our strategy is to maintain strong flexibility in resource sharing between our offices and across projects that require specialized expertise.

Our greatest strengths:

- ✓ We take pride in delivering practical, tailored solutions and technologies, ensuring that our work fits seamlessly within each client's facilities, operations, and organizational context.
- ✓ Our team is highly qualified, demonstrating exceptional professionalism and teamwork.
- ✓ Together with our carefully selected partners, our personnel bring extensive experience that positions Setech at forefront of our industry.

Our Vision:

"Setting patterns that help our customers and communities achieve better lives."

Our core values:

- | | |
|---------------------|-----------------------|
| ✓ S afety | ✓ E fficiency |
| ✓ I ntegrity | ✓ C ontinuity |
| ✓ T rust | ✓ C onsistency |

Our Mission:

"Building partnerships towards a better future for all Vietnamese."

Our Partnership:

In line with our mission to lead in applying global technologies and delivering true value that improves lives in our communities, SETECH SERVICE actively collaborates with strategic partners worldwide to bring high-quality products and innovation solutions to Vietnam..



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Our Sustainability:

Protecting and caring for the environment is essential to the way we conduct business. SETECH SERVICE focus on the efficient use of resources and on minimizing our environmental impact.

Our Activities:

I. Infrared Thermal Diagnosis & Inspection Services

Comprehensive infrared thermographic inspections to identify and analyze thermal anomalies, enhancing equipment reliability and operational efficiency.

II. Thermography Training & Mentoring

Professional training and mentoring programs designed to develop in-house expertise in thermographic inspection and analysis.

III. Energy Efficiency Consulting & Audit Services

We provide comprehensive consulting and auditing services to help clients identify, analyze, and implement energy-saving opportunities. Our approach combines advanced measurement techniques, system analysis, and practical engineering recommendations to enhance energy efficiency while maintaining operational reliability.

Our services include:

- Energy audits for industrial plants and utilities
- Assessment of energy consumption and performance benchmarking
- Identification of energy losses and optimization opportunities
- Development of tailored energy-saving solutions
- Support in implementing and monitoring improvement measures
- Assistance with national energy efficiency compliance and certification

IV. Hotspot / Online Chemical & Mechanical Cleaning

Specialized online chemical and/or mechanical cleaning services for the fired side of fired heaters, furnaces, and boilers — effectively removing deposits and improving heat transfer performance.

V. Surface Protection & Asset Performance Enhancement Solutions



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- ✓ IGS High Velocity Thermal Spray (HVTs): A fast, in-situ upgrade solution that enhances existing metallurgy to higher alloys, providing a durable barrier against corrosion and erosion in mission-critical equipment.
- ✓ Cetek Coating: Advanced coating solutions for process tubes and refractory surfaces that improve radiant efficiency in fired heaters, reduce fuel consumption, increase production, and lower CO₂ and NO_x emissions.
- ✓ Robotic Cleaning: Automated cleaning technology for the convection sections of fired heaters, ensuring safety, precision, and reduced downtime.

VI. Supply of Chemicals, Materials & Equipment

- ✓ Chemicals, materials and equipment for energy efficiency.
- ✓ Infrared cameras for furnaces, optical gas imaging, and various industrial applications.

Industries We serve:

 Oil & Gas	 Energy	 Chemicals &	 Sugar
 Power	 Pulp & Paper	 Petrochemicals	 Cement
 WtE & Biomass	 Metals & Mining	 Glass	 Others

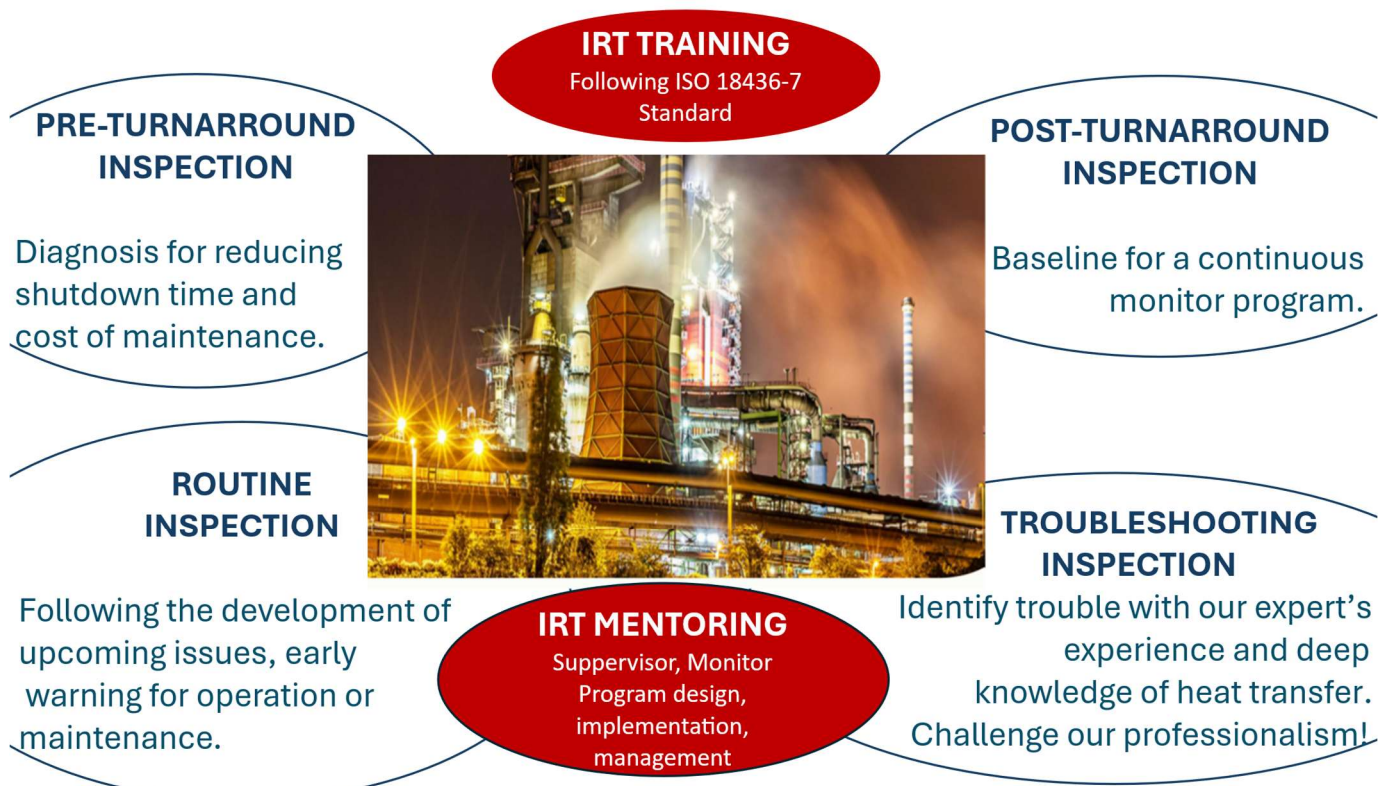
INFRARED THERMOGRAPHY DIAGNOSIS

Using infrared thermography to monitor conditions and diagnose faults in equipment, machinery, and vehicles is a key component of predictive maintenance programs across most industries.

SETECH SERVICE, together with its global network of partners, delivers world-class Infrared Thermography (IRT) and Optical Gas Imaging (OGI) inspection services for a wide range of industrial applications.

With our team's diverse expertise and extensive field experience, we help you minimize the risk of production disruptions by detecting issues before they escalate, ensuring the safety, reliability, and stability of your operations.

Programs we provide:



Application for:

Fired heaters, furnaces, boilers

A thermal camera survey is a specialized method used to inspect and evaluate internal heaters and furnaces. It is essential to ensure the safety, reliability, and integrity of the equipment, as well as the stable operation of the plant.

This method requires specialized professional equipment and experienced service providers or on-site personnel to ensure the accuracy of the survey results, evaluations, and recommendations.

Purpose of our work is:

“To keep your plant running efficiently and profitably, with minimal interruptions and at the lowest possible cost — while maintaining safe operations.”

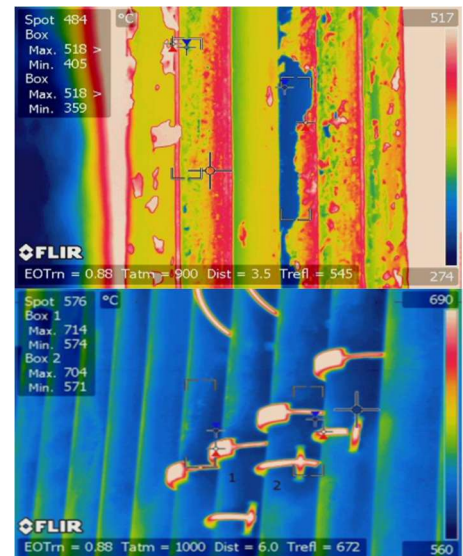
Key Advantages:

- Optimize production output and fuel efficiency
- Enhance **furnace safety** — avoid unexpected failures
- Prevent **premature shutdowns** and improve **turnaround efficiency**
- Gain **deeper insight** into the condition and operating parameters of your furnaces
- Increase furnace safety – avoid surprises!

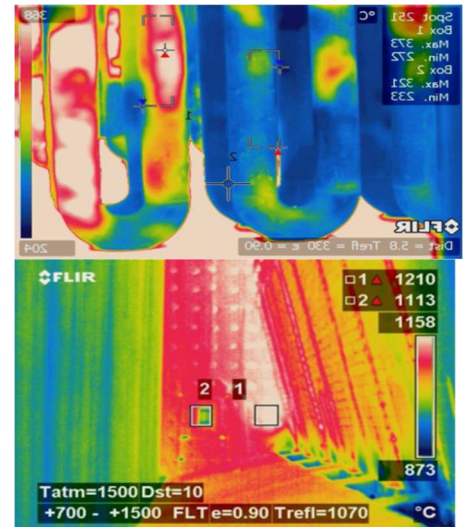
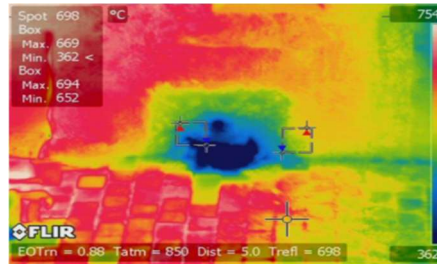
Furnace conditions we detect:

Typical conditions detected include:

- ✓ Coke builds up and other internal fouling
- ✓ Excessive scale and external fouling
- ✓ Burner problems
- ✓ Flame impingement
- ✓ Imbalanced heating
- ✓ Dry zones in tubes
- ✓ Thermocouple malfunction
- ✓ Tramp air in-leakage in the firebox

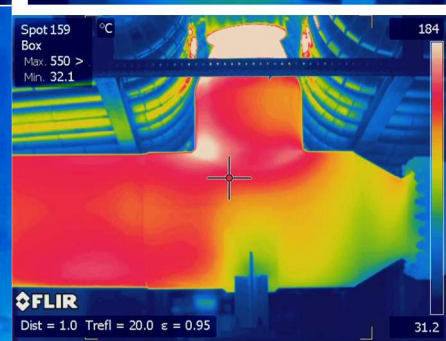
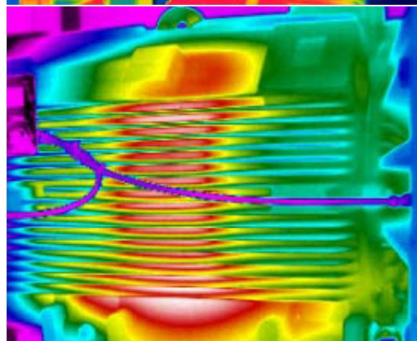
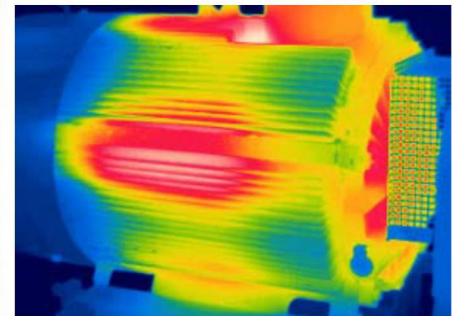
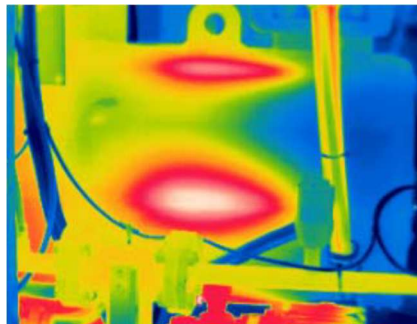


- ✓ In-leakage of snuffing steam/condensate
- ✓ Afterburn issues
- ✓ Broken tube guides
- ✓ Defective hangers and supports



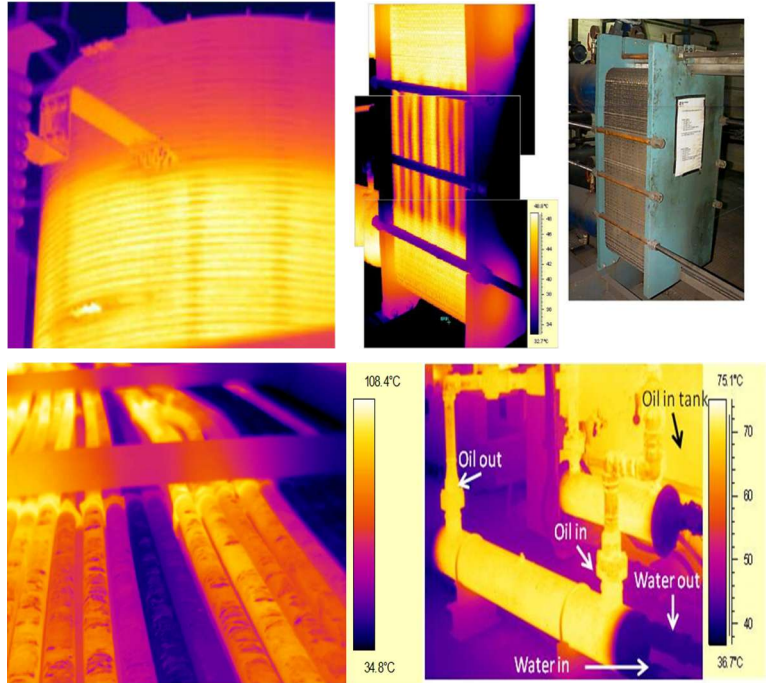
Rotating mechanical

- ✓ Fan
- ✓ Motor
- ✓ Compressor
- ✓ Generator
- ✓ Turbine
- ✓ Centrifuge
- ✓ Roller
- ✓ Flywheel
- ✓ ...



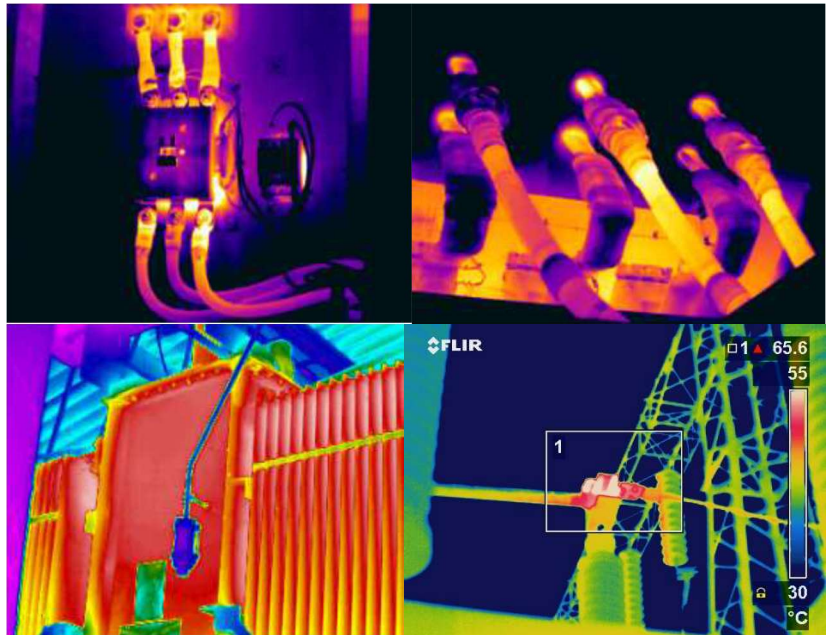
Static mechanical and fluid flow issues

- ✓ Piping
- ✓ Valves
- ✓ Filters
- ✓ Tank and Vessel
- ✓ Heat Exchanger
- ✓ Separator
- ✓ Reactor
- ✓ Pressure Relief Devices
- ✓ Vent and Drain
- ✓ Baffles
- ✓ Conveyor
- ✓ ...



Electrical

- ✓ Electric Motor
- ✓ Generator
- ✓ Inverter
- ✓ Transformer
- ✓ Voltage Regulator
- ✓ PSU
- ✓ Protection Devices
- ✓ Control and Automation Device
- ✓ MCC and Low Voltage terminations and components
- ✓





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INFRARED THERMAL TRAINING COURSES

Training Course: INFRARED THERMOGRAPHY FOR INDUSTRIAL MAINTENANCE

This training course adheres to the ISO 18436-7 standard and is expanded comprehensively to encompass applied knowledge in industrial maintenance.

Caterogy: Level 1+

Target audience: Manager, Inspector, Operator, Maintenance Staff of plants. ITR beginners, Level 1, Level 2 Professionals

Duration: 5 days in class
Onsite mentoring available upon request

Tutor: - Over 30 years of teaching experience IRT at ITC .
- 40 years of global onsite practicing.

Language: English (Vietnamese translation support provided)

Training Material: - Excluse IRT books
- Extensive real-life case studies from tutor's personal experience

Registration:

Email: setechs@setechs.asia
Tel: 0813029386

Benefit of course

- ✓ Learn to correctly choose and maximize the benefits of infrared cameras for practical applications.
- ✓ Gain expertise in designing processes, performing analytical analyses, and managing programs effectively.
- ✓ Acquire skills to monitor and analyze the processes while creating insightful and actionable reports.

TRAINING CONTENT

Section I:

- Thermal Science
- Heat transfer
- Radiation fundamentals
- Factors influencing emissivity.

Section II:

- Thermography
- The infrared image – interpretation, qualitative and quantitative analysis, analysis principles, measurement compensation

Section III:

- Using thermography in industry.
- Maintenance application: Rotating mechanical, Static mechanical and fluid flow issues; Electrical; MCC and Low Voltage terminations and components.
- Program design, implementation, and management.



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INFRARED THERMAL TRAINING COURSES

Training Course (for longterm client partner):

INFRARED THERMOGRAPHY ADVANCED COURSE FOR FIRED HEATER/FURNACE

This training course follows the ISO 18436-7 standard completely and is expanded comprehensively to encompass applied knowledge in thermal diagnosis for fired heater/furnace/boiler.

Caterogy: Level 1+

Target audience: Manager, Inspector, Operator, Maintenance Staff of plants, ITR beginner, Level 1, Level 2, Level 3.

Duration: 5 days in class (onsite mentor and consultant as required)

Tutor: >30 years of teaching IRT at ITC and 20 years (160h/y) of practicing onsite of furnaces all over the world.

Language: English (support of translation to Vietnamese)

Training Material: Owner IRT book for furnace and huge real case studies from Tutor's experience.

Registration:

Email: setechs@setechs.asia

Tel: 0813029386

Benefit of course: In-depth training on specific application knowledges helps trainees performing the following tasks during operation and maintenance:

- ✓ Choose correctly and maximize the benefits of infrared cameras in practical applications.
- ✓ Design processes, perform analytical records and manage programs effectively.
- ✓ Monitor and analyze the process and create useful reports.

TRAINING CONTENT

Section I:

- Thermal Science
- Heat transfer
- Radiation fundamentals
- Factors influencing emissivity.

Section II:

- Infrared theory – using camera
- The infrared image – interpretation, qualitative and quantitative analysis, analysis principles, measurement compensation

Section III:

- Evaluating what you see - Case Studies
- Methodology, reporting and program management.
- Software training and Report Sample