



**WE EITHER FIND A WAY
OR CREATE ONE**

AVISENERGY POWER GENERATION TRADING L.L.C



ABOUTUS:

AVISENERGY POWER GENERATION TRADING (LLC) is registered and operated since 2001 in Dubai UAE focus on sustainable growth of Energy We have a highly skilled and qualified team for the required services, We do fabrication, engineering and coating

Our Vision:

Our Vision is to provide excellence in managing the complexities of our customer's supply chain requirements. Our vision is supported by two fundamental principles that provide the foundation for all of our activities: Organization Excellence and Core Values.

Our Mission:

Our mission is to successfully deliver the best value for our Customer and end users by combining aggressive strategic marketing with high quality, cost effective products, value added engineering services on time & every time and practical solutions centered around client satisfaction.





Power Plant:

Avisenergy is delivering the right solutions for your gas turbine of all type like condensing, back pressure and extraction-condensing of all output range and pressure specifications, complete with all attachments and auxiliaries as per client's requirements, steam turbine or generator to increase flexibility, efficiency, reliability and availability throughout the entire lifecycle of your assets.

Our strategy is to evaluate your inquiries with you to achieve optimal performance and maximize success in your power plant,

Oil & Gas:

The oil and gas sector is a one of biggest activity in the world which using hundreds of thousands of workers worldwide and generating hundreds of billions of dollars globally each year In this context we try to provide our products and services where

it's required in our region for the required fields:

- Upstream
- Midstream
- Downstream





Avisenergy provide one point solution for maintenance, repairs and overhauling requirements for the Oil & Gas industry. Systems & Equipment installed on the offshore Oil & Gas assets require regular maintenance and overhauling Timely and proper maintenance is critical for their efficient performance, long life and class certification.

We keep a track of the maintenance plans as defined by the OEM's for their respective equipment & machinery and also provide specialized manpower.

Training:

Avisenergy offers training courses, which are delivered by engineers with extensive experience in the operation and maintenance of power plants, oil & gas and associated equipments

Partnership with established supply houses in Japan, Europe, Korea, Singapore, Malaysia, Austria and U.S.A to broaden our geographical reach.

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Our Maintenance, Repairs and Overhauling (MRO) services include:





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Avisenergy offer comprehensive Corrosion Management solutions for platforms/ rigs onshore and offshore.

Corrosion is a perennial problem experienced at all kinds of manufacturing facilities. High rate of corrosion increases the chances of equipment failure, asset degradation, delays, shutdowns, accidents and incidents that could result in loss of life, profits and reputation.

We maintains assets and enhances the operating lives by leveraging cutting-edge technology, word-class equipment, certified personnel and third party inspection procedures.

Our team of certified inspectors ensures the highest standards on all jobs. As a total integrated solutions provider, we offer comprehensive corrosion management solutions for platforms/ rigs onshore and offshore. We offer customized and comprehensive auditing, inspection, planning, execution and project management services.





Equipment & Tools:

Avisenergy use state-of-the-art corrosion management and maintenance tools to offer a one point solution for total corrosion management challenges in your plants/offshore and onshore platforms. We facilitate a gradual shift to "preventive maintenance policy". We possesses some of the most sophisticated and advanced tools for safety and maintenance. These tools, along with the experience and know-how abottits efficient usage, puts us head and shoulders above our contemporaries in the field.

Project Management Services:

Project Management and Project Engineering
Project Services (Cost Estimation, Planning,
Budgeting & Document Control)
Maintenance and/or construction works
on-board floating and offshore
structures/vessels
Logistics support
Warehouse Management We have recently
launched inspection services



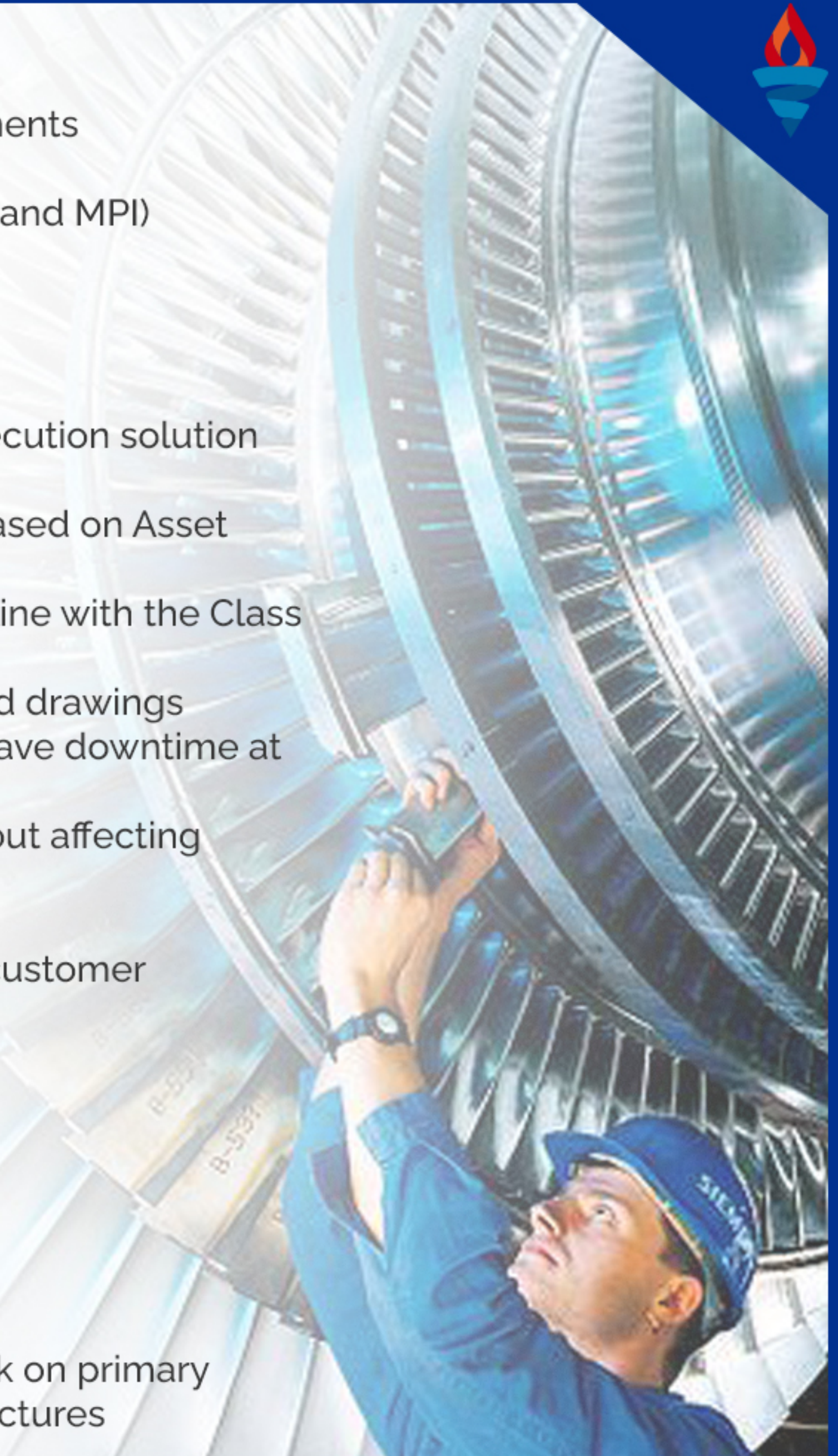


Inspection Services:

Crane inspections and refurbishments
Jacking Inspection and overhaul
NDT services (Eddy Current, UTG and MPI)
Rope access inspection
Lifting Gear Inspection

Steel structures:

Offer design, engineering and execution solution for steel renewal
Designing the renewal process based on Asset requirement
Modification, if required, done in-line with the Class requirement
Onsite fabrication as per approved drawings
Supply of prefabricated steel to save downtime at Offshore site
Entire project is done onsite, without affecting operations of the Asset
Avoid off-hire of the Asset
Customized approach based on customer requirement
Locations covered
Tanks
Deck
Accommodation
Machinery platforms
Production modules
Heli Deck
Composite teams capable to work on primary structure as well as outfitting structures





Pipe systems:

Offer design, engineering and execution solution for pipe installation

Site survey carried out to prepare isometric drawings

Offshore or Onshore fabrication as per drawings

Locations covered

Tanks and Void Spaces

Decks

Side Shell

Accommodation

Machinery compartments

Turret

Other services:

Jacking system / Drilling system

Rotating system / Lifting / crane system

Hydraulic systems / Marine engines

High pressure units

Rope access services

Aluminum Helideck installation

Project management support

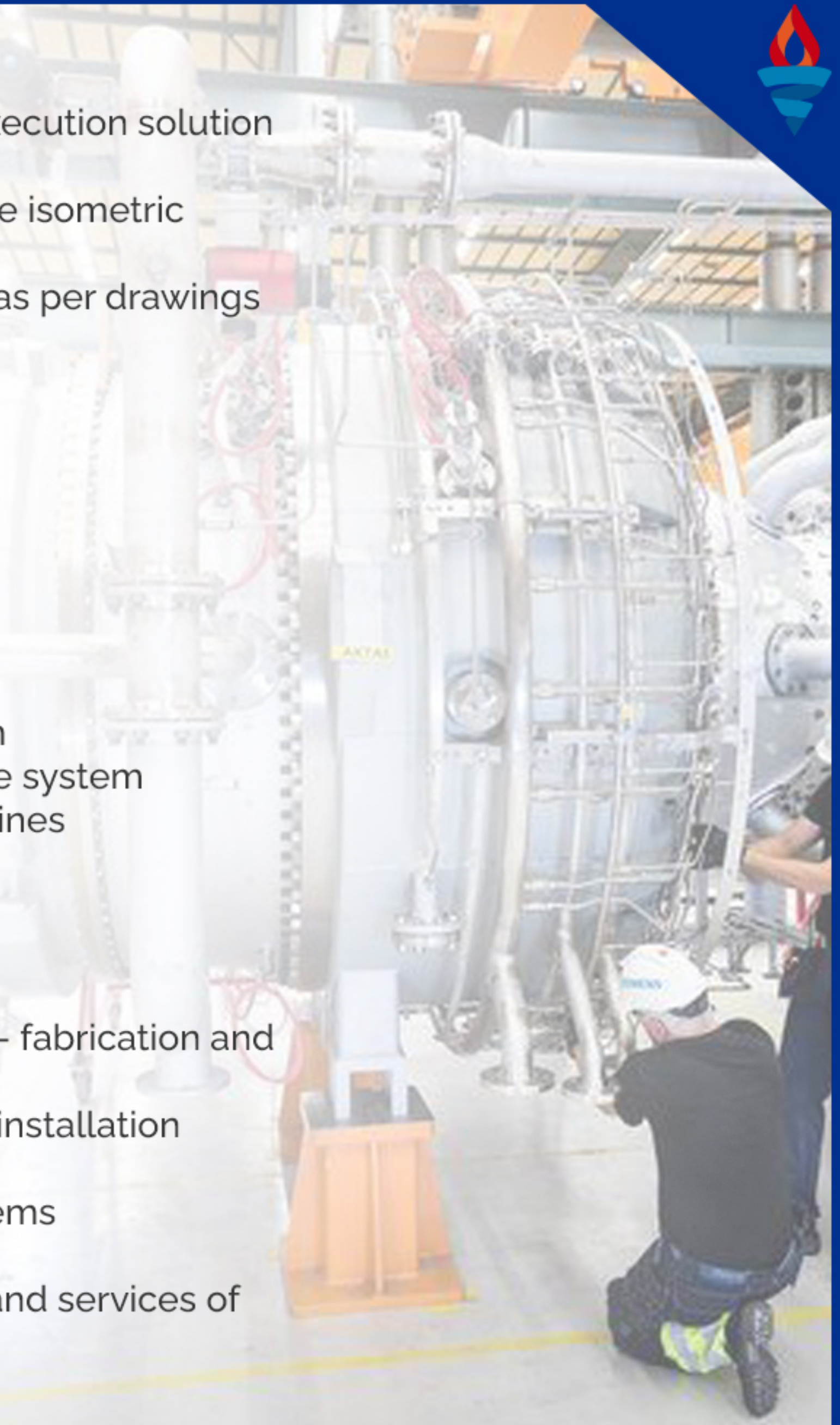
- * Structural steel and outfitting — fabrication and installation

- * Pipe system — fabrication and installation

- * Electrical and cabling work

- * Mechanical and hydraulic systems

Site survey of system pipelines and services of experience Piping Engineers for





AvisEnergy Services:

We at AvisEnergy offer a comprehensive range of services for the

MAJOR TURBINE OVERHAUL (MTO) CALIBRATION

Full Engine overhaul

Power Turbine Overhaul

Combustion Chamber Overhaul/Exchange

Bleed Valve Overhaul

Solenoid Overhaul

Fuel Nozzle & Manifold Overhaul

Fuel Pump Overhaul

Clutches & Air Starters Overhaul

INSPECTION & REPAIR

Breakdown Fault Finding & Repair

Hot section Inspection (HSI)

Borescope Inspections

Engine Installation & Removal

Exhaust Case swap

CALIBRATION

Geometry Checks & Calibrations

Control System Valve & Actuator Calibration

•Package Instrumentation Calibration

AvisEnergy SERVICE TEAM

Highly experienced in the Gas Turbine industry

Projects teams are led by seasoned technical directors, supervisors, foremen, and mechanics to best meet customer's scope and timeline.

On-site training & Support



A WORLDWIDE TEAM TO BRING GLOBAL SOLUTION FOR INDUSTRY

OUR CORE BUSINESS IS FIELD ENGINEERING, SITE SUPERVISION
& MAINTENANCE.

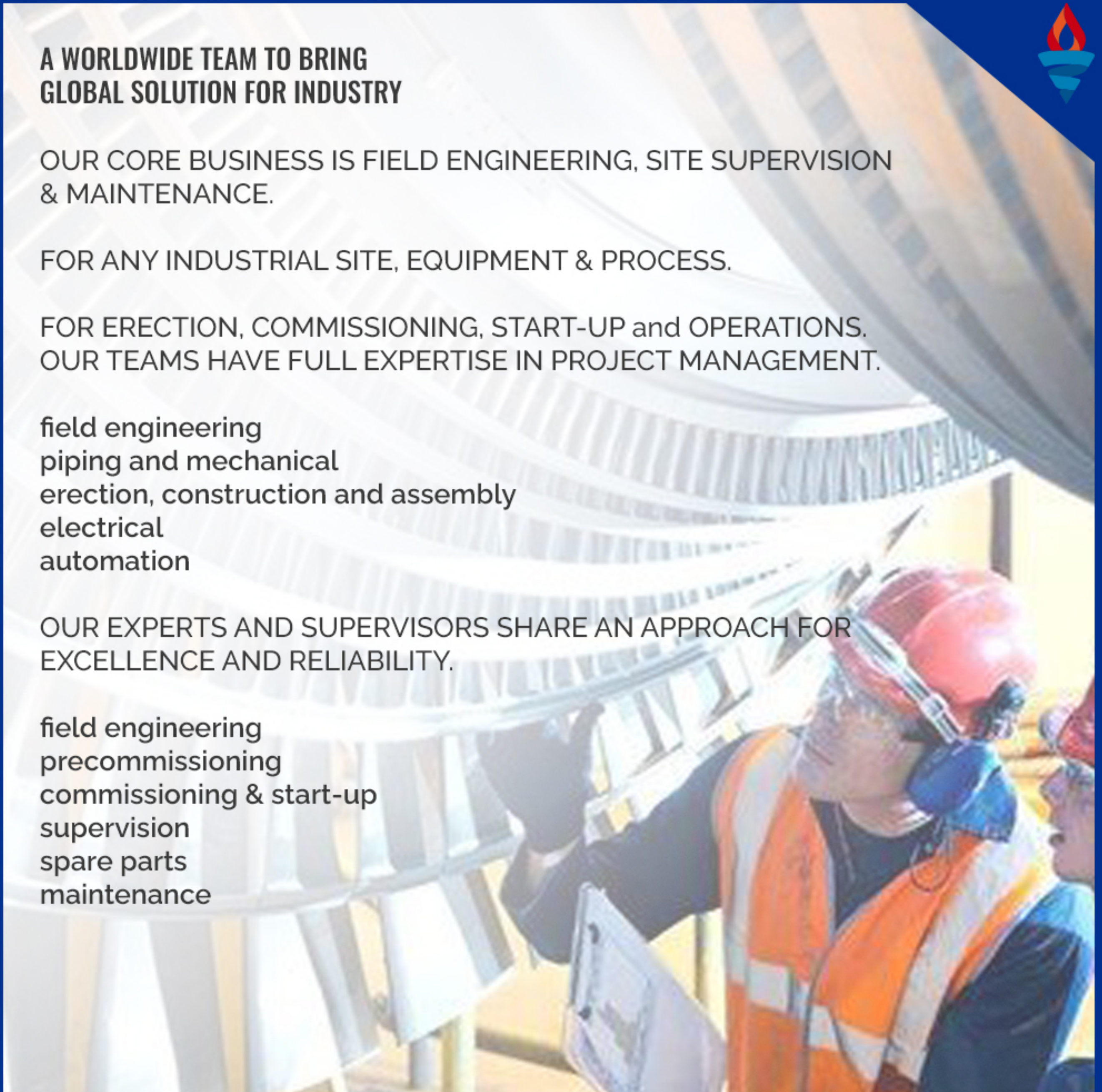
FOR ANY INDUSTRIAL SITE, EQUIPMENT & PROCESS.

FOR ERECTION, COMMISSIONING, START-UP and OPERATIONS.
OUR TEAMS HAVE FULL EXPERTISE IN PROJECT MANAGEMENT.

field engineering
piping and mechanical
erection, construction and assembly
electrical
automation

OUR EXPERTS AND SUPERVISORS SHARE AN APPROACH FOR
EXCELLENCE AND RELIABILITY.

field engineering
precommissioning
commissioning & start-up
supervision
spare parts
maintenance





Business Segments

- Refinery engineering
- Petrochemicals
- Natural gas processing and storage
- Inorganic chemicals



Services

- Project management
- Basic engineering
- Detail engineering
- Procurement and supply of equipment
- Site management
- Construction and installation services
- Commissioning



Tasks

- Design and construction of new process plants
- Modernisation and expansion of existing process plants
- Process optimisation of existing process plants

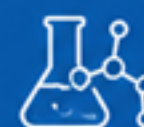


YOUR **PARTNER** FOR THE DESIGN OF PROCESS PLANTS



Refinery Engineering

- **Oil Refinery**
 - Atmospheric distillation
 - Vacuum distillation
 - Hydrodesulfurisation
 - Reforming
 - Zeoforming
 - Isomerisation
 - Demercaptanisation
- **Lube oil refining**



Petrochemicals

- Expandable polystyrene
- Ammonia
- Urea
- Melamine
- Butadiene
- Maleic anhydride
- Nitric acid



Natural Gas Processing and Storage

- Natural gas underground storage facilities
- Natural gas compressor stations
- Natural gas treatment
 - Pre-treatment
 - Purification
 - Natural gas scrubbing
 - Separation of higher hydrocarbons
 - Natural gas compression
 - Sulphur recovery
 - Demercaptanisation



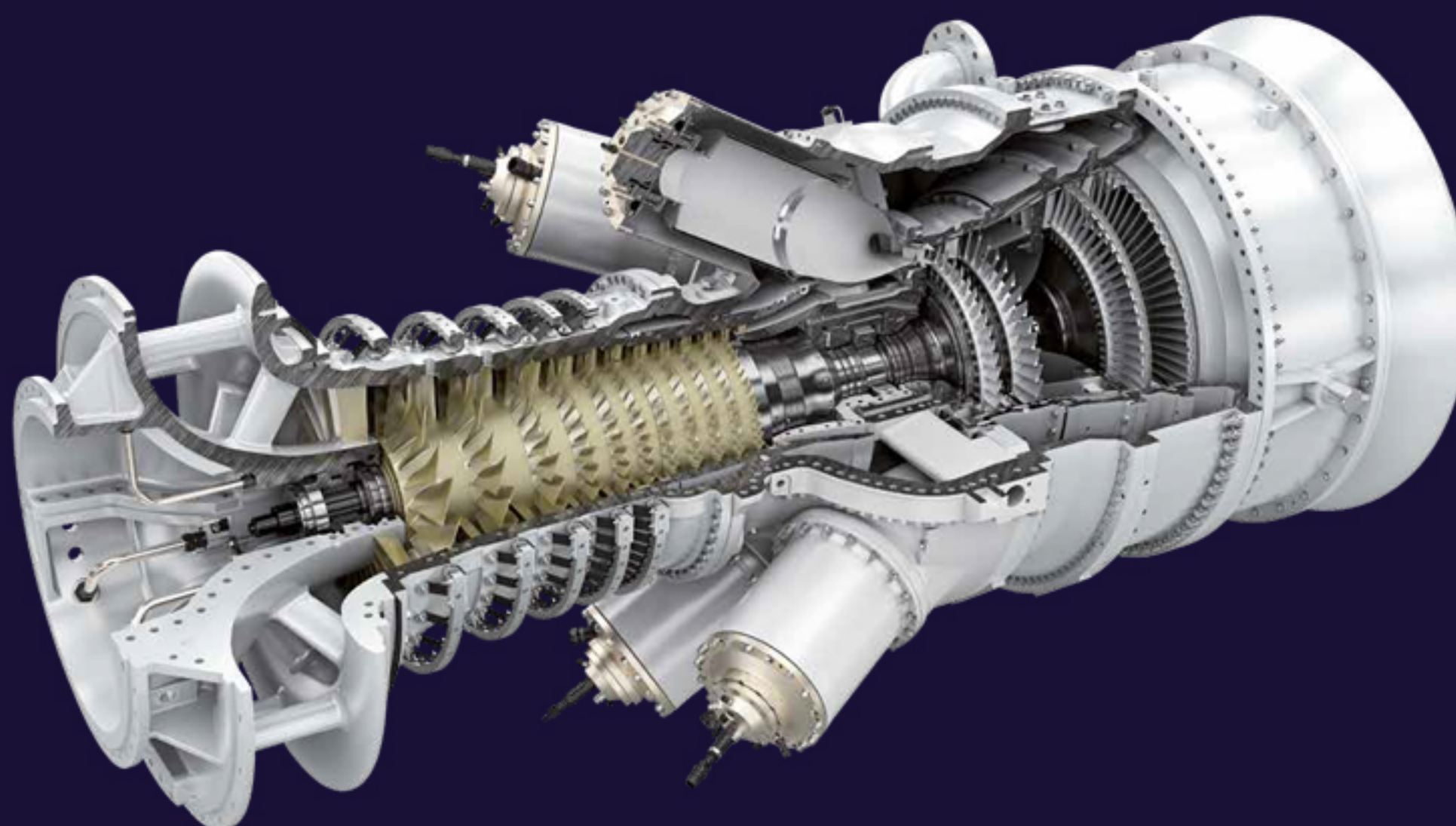
Inorganic Chemicals

- Chlor-alkali electrolysis
- Sulphuric acid
- Chlorine purification
- Ammonium sulphate
- Polyaluminium chloride
- Ferric chloride
- Calcium chloride
- Sodium carbonate



SGT-400

Industrial gas turbine



Power Generation

Power	10.5 MW	12.9 MW	14.3 MW
Gross efficiency	35.4%	34.8%	35.6%
Heat rate	10,173 kJ/kWh (9,638 Btu/kWh)	10,354 kJ/kWh (9,810 Btu/kWh)	10,103 kJ/kWh (9,572 Btu/kWh)
Turbine speed	11,500 rpm	9,500 rpm	9,500 rpm
Pressure ratio	16.1:1	16.9:1	18.5:1
Exhaust mass flow	34.2 kg/s (75.4 lb/s)	40.0 kg/s (88.2 lb/s)	44.5 kg/s (98.1 lb/s)
Exhaust temperature	510°C (950°F)	555°C (1,031°F)	529°C (984°F)

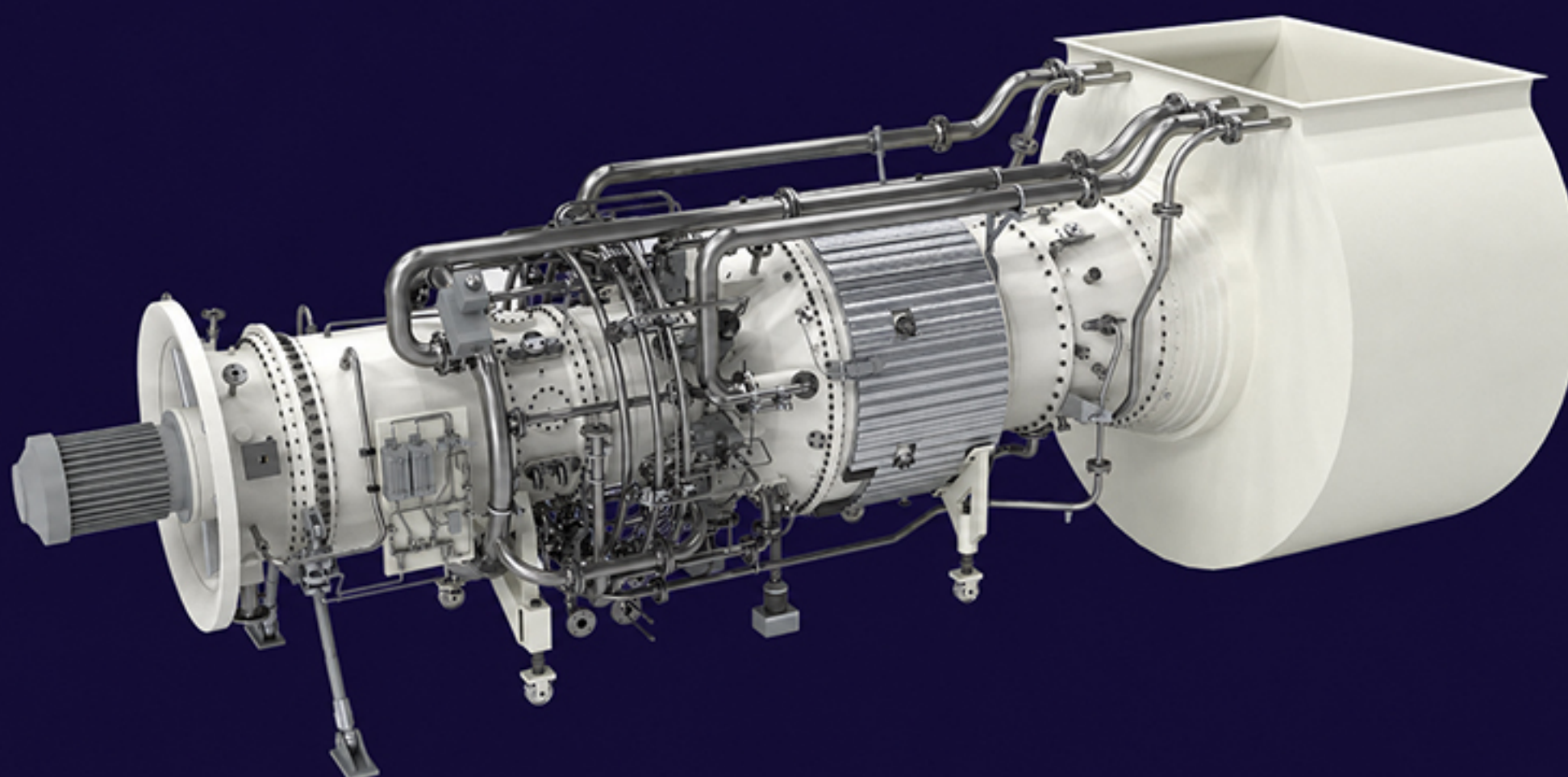
Mechanical Drive

10.8 MW (14,598 hp)	13.8 MW (18,544 hp)	14.9 MW (20,024 hp)
36.8%	36.8%	37.1%
9,774 kJ/kWh (6,908 Btu/hph)	9,790 kJ/kWh (6,919 Btu/hph)	9,702 kJ/kWh (6,857 Btu/hph)
5,750/12,075 rpm	4,750/9,975 rpm	4,750/9,975 rpm
16.1:1	16.9:1	18.5:1
34.2 kg/s (75.4 lb/s)	40.6 kg/s (89.5 lb/s)	44.5 kg/s (98.1 lb/s)
510°C (950°F)	543°C (1,009°F)	529°C (984°F)



SGT-500

Industrial gas turbine



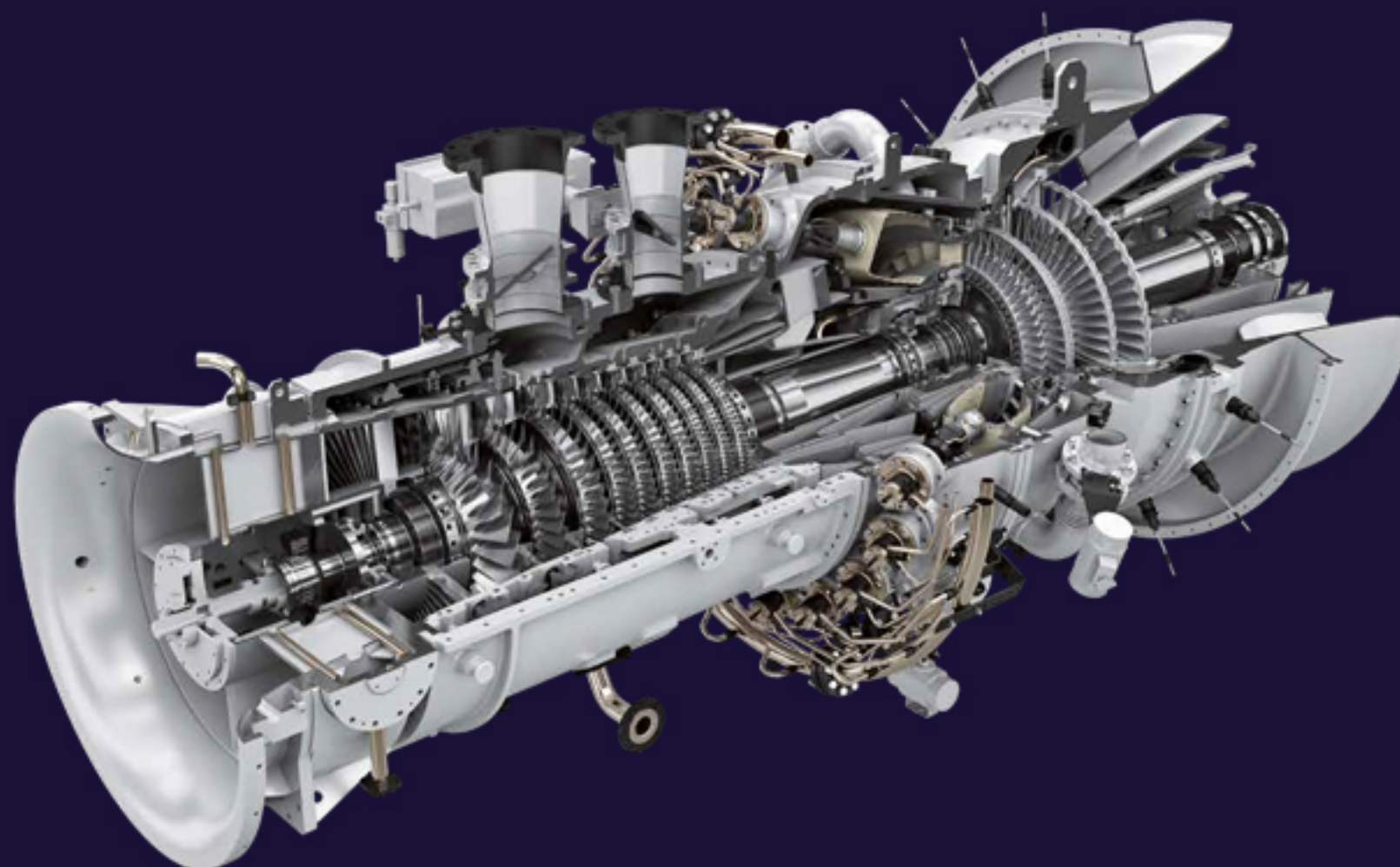
Gross efficiency (electrical)	34.8 % (MD) / 33.6 % (PG)
Heat rate	10,651 kJ/kWh (10,095 Btu/kWh)
Turbine speed	3,600 rpm
Pressure ratio	13 : 1
Exhaust mass flow	97.9 kg/s (215.9 lb/s)
Exhaust temperature	376 °C (709 °F)

NOTE: All performance values are based on standard design, ISO ambient conditions and natural gas fuel.



SGT-600

Industrial gas turbine



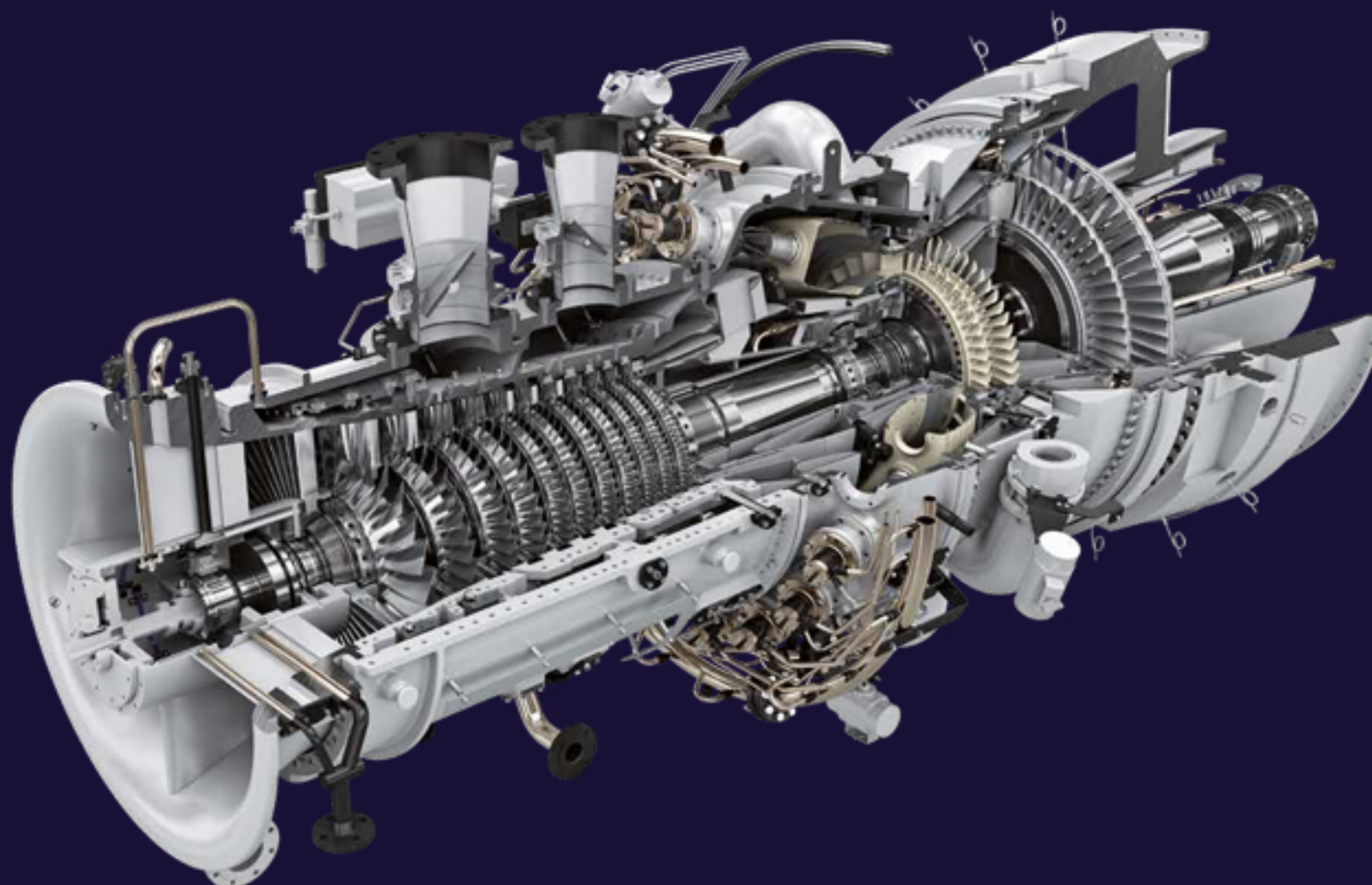
	24.5 MW(e)
Gross efficiency	33.6%
Heat rate	10,720 kJ / kWh (10,161 Btu / kWh)
Turbine speed	7,700 rpm
Pressure ratio	14.0:1
Exhaust mass flow	81.3 kg / s (179.2 lb / s)
Exhaust temperature	543 °C (1,009° F)

NOTE: All performance values are based on standard design, ISO ambient conditions and natural gas fuel.



SGT-700

Industrial gas turbine



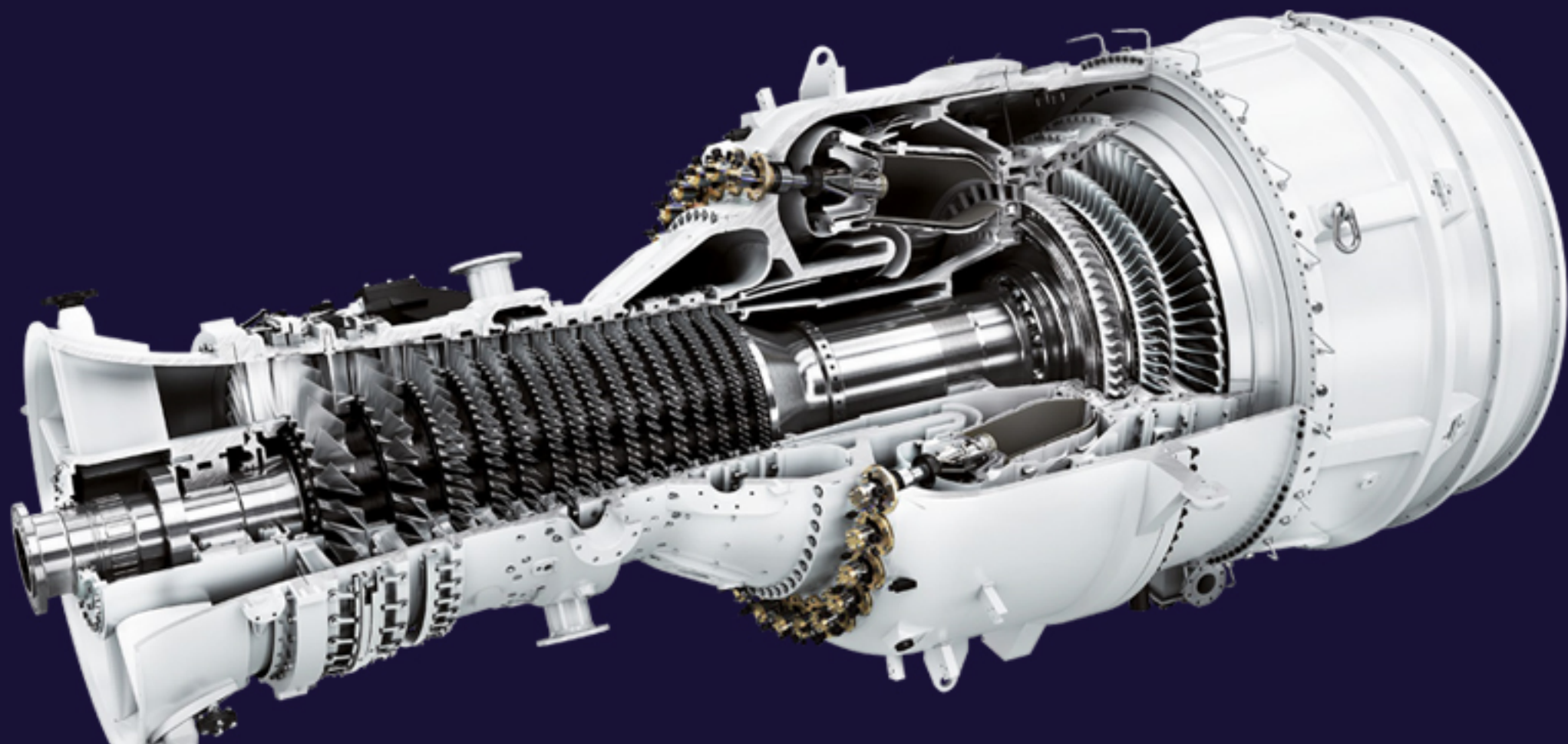
	33 MW	35 MW
Gross efficiency	37.2%	38.0%
Heat rate	9,675 kJ / kWh (9,170 Btu / kWh)	9,466 kJ / kWh (8,972 Btu / kWh)
Turbine speed	6,500 rpm	6,500 rpm
Pressure ratio	18.7:1	20.4:1
Exhaust mass flow	95.0 kg / s (209.4 lb / s)	98.7 kg / s (217.6 lb / s)
Exhaust temperature	533 °C (991 °F)	531 °C (988 °F)

NOTE: All performance values are based on standard design, ISO ambient conditions and natural gas fuel.



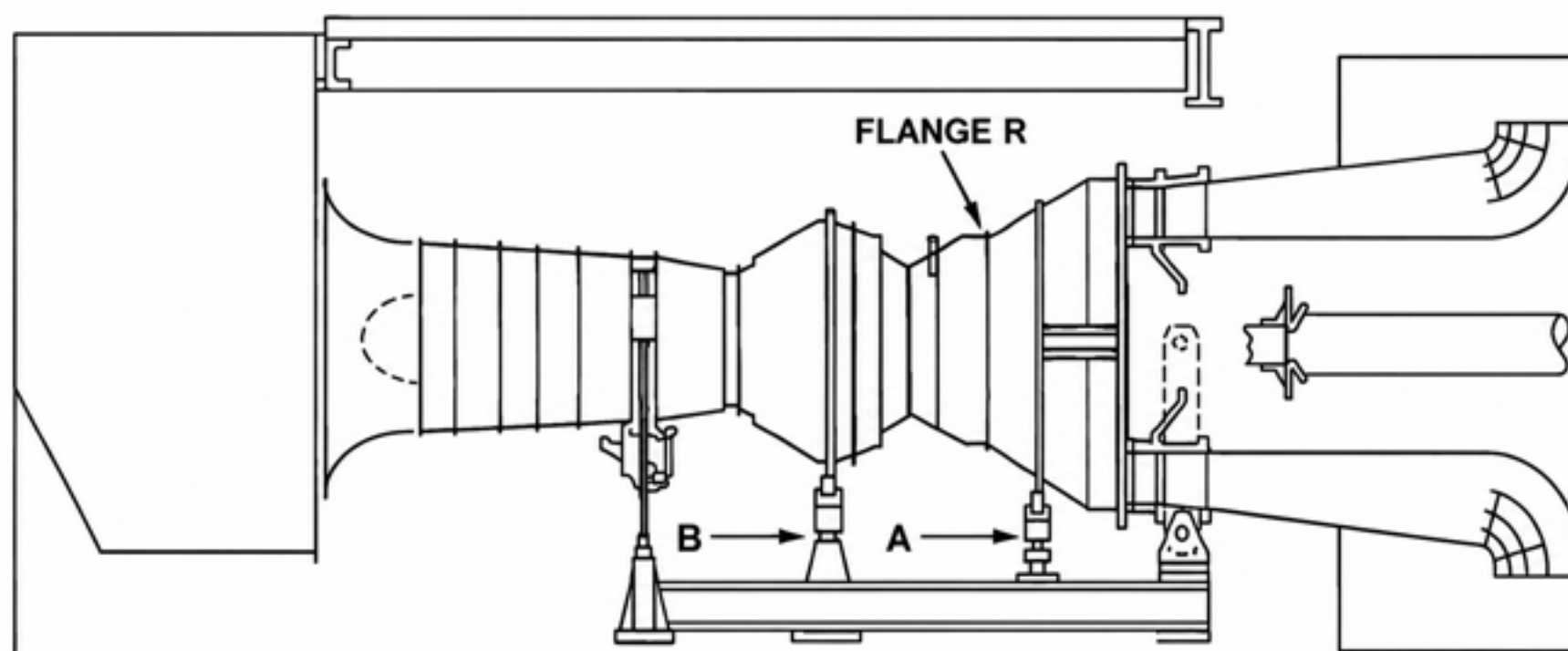
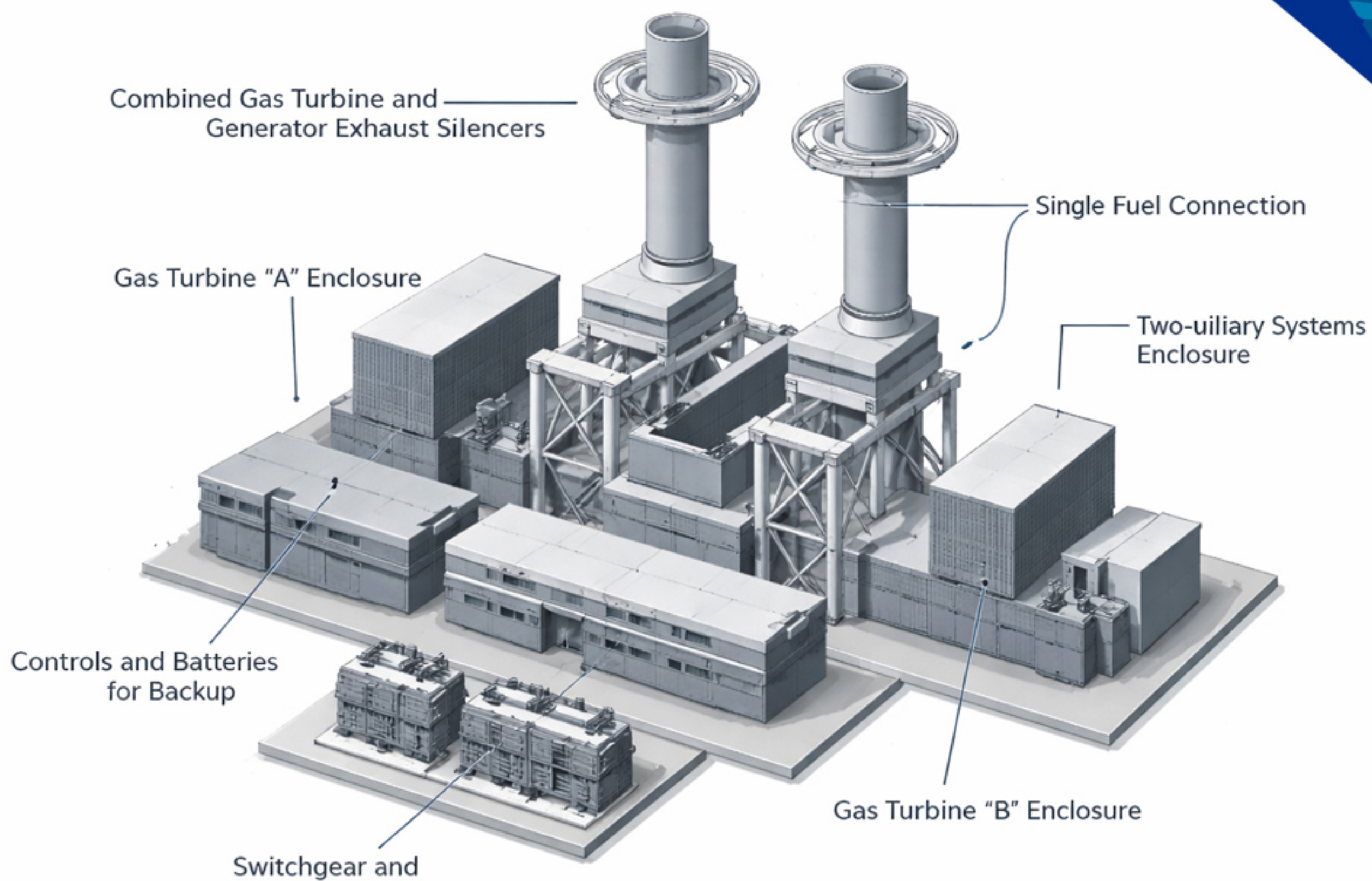
SGT-800

Industrial gas turbine



		45 MW	50 MW	56 MW	57 MW	62 MW
Gross efficiency	%	38.4	39.4	39.5	40.1	41.1
Heat rate	Btu/ kWh	8,892	8,670	8,647	8,502	8,302
Turbine speed	rpm	6,600	6,600	6,600	6,600	6,600
Pressure ratio		18.3:1	19.8:1	22.0:1	22.0:1	21.1:1
Exhaust mass flow	lb/ s	253.7	274.9	303.6	301.1	298.7
Exhaust temperature	°F	1,065	1,041	1,047	1,049	1,104

NOTE: All performance values are based on standard design, ISO ambient conditions and natural gas fuel. No intake or exhaust loss.











Cranes

Avisenergy has more than a two decades experience in supply, service and management of industrial crane and heavy lifting machineries. Ideally located at the heart of the Middle East, Avisenergy is in the perfect position to provide services throughout the region. The company has helped industries such as construction, cement manufacturing oil and gas.





Generators – LV, MV & HV

Power Generator Services

We specialize in the maintenance, repair, overhaul, refurbishment, testing, and commissioning of power plant generators.

Our services include:

Complete generator inspection and condition assessment

Major and minor overhauls

Rotor and stator repairs

Rewinding and insulation refurbishment

Electrical and mechanical testing

Alignment and vibration analysis

On-site troubleshooting and technical support

Generator commissioning and performance verification

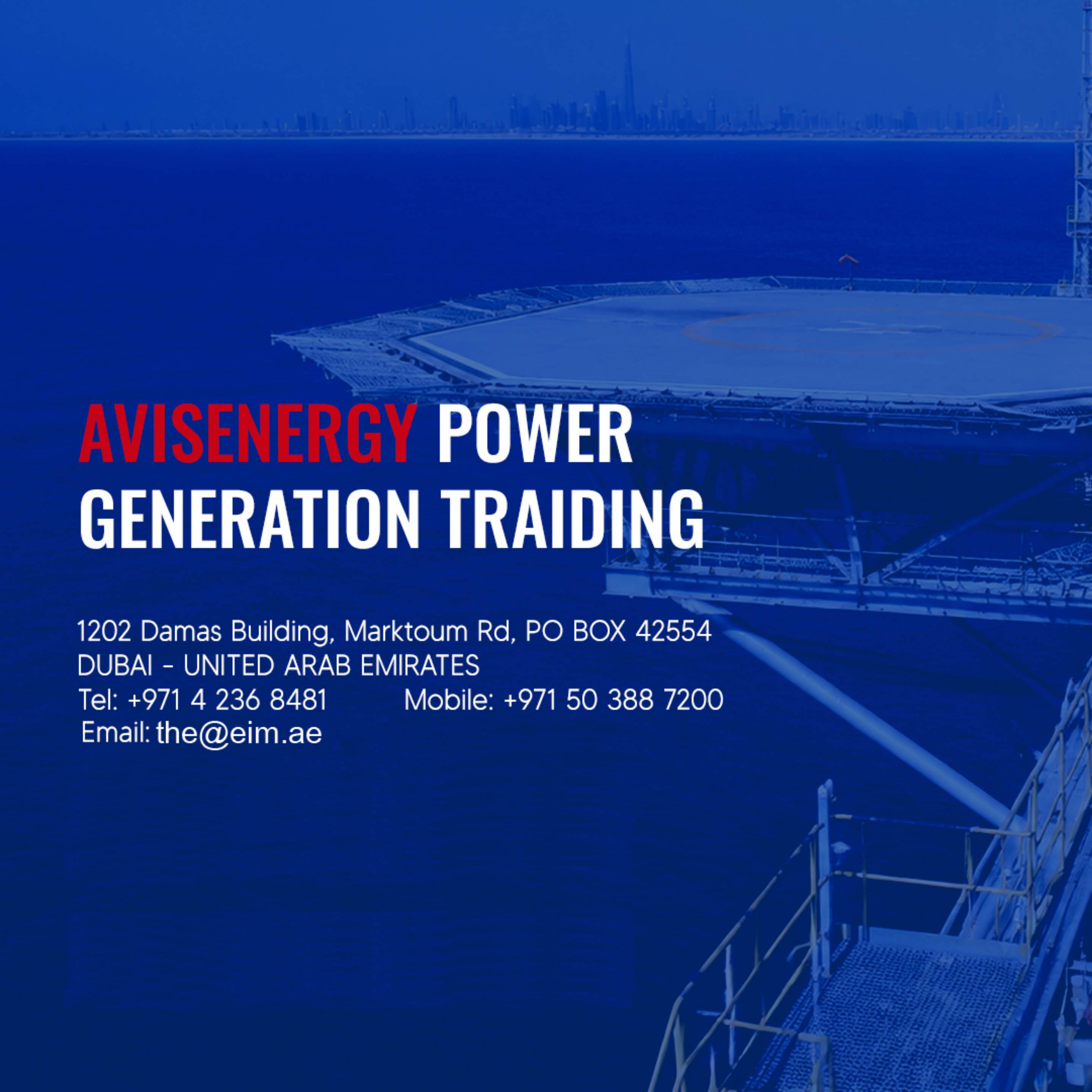
Preventive and corrective maintenance programs

With extensive experience in power generation equipment, we provide reliable solutions to maximize generator performance, efficiency, and operational availability.

Serving power plants, industrial facilities, and energy projects worldwide.







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