



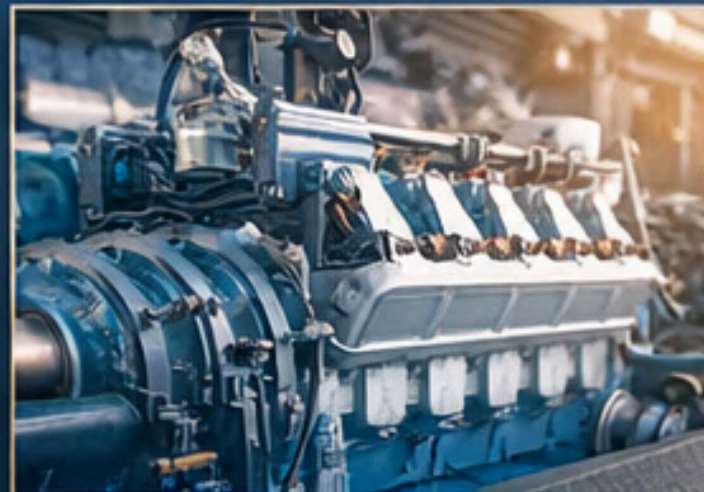
ESLAH
For Maintenance Services

Reliability Partner for Critical Assets

Keeping Operations Running When Failure Is Not an Option



**TURBINE FACILITIES
MAINTENANCE**



**DIESEL ENGINE
OVERHAULS**



**CONTRACTING
SERVICES**



**INSPECTION
AND MAINTENANCE**

About Us

ESLAH Co. for Maintenance Services is an independent service provider based in Bahrain, offering a wide range of industrial and engineering services across the energy, oil, and gas sectors. These activities include gas and steam turbine maintenance, inspection, repair, field services and outages. OEM Spare parts supplier, upgrades, electromechanical installation, electrical testing and commissioning, and maintenance across various systems and equipment, **ESLAH** also specializes in non-destructive testing, repair, and maintenance of fuel storage tanks, vessels, pipelines, environmental monitoring systems, and more. Additionally, the company provides installation and maintenance of water purification, sewage treatment, and firefighting systems, as well as rental services for work platforms.



ESLAH Co. for Maintenance Services positions itself as a **pivotal player in the energy, oil, and gas sectors**. With a comprehensive suite of services, including mechanical installations, electrical tests and turbine outages, Eslah aims to cater to the critical infrastructural needs of these industries.

The presentation would underscore our partnerships, diverse technical capabilities, and commitment to quality and safety, setting the stage for ESLAH's mission to become a leading service provider in the region.

Our Mission & Vision



Mission

At ESLAH Co. For Maintenance Services, our mission is to deliver comprehensive, high-quality technical services in the energy, oil, and gas sectors. We are committed to ensuring the reliability and efficiency of mechanical, electromechanical, and electrical systems through expert installation, maintenance, and non-destructive testing. By providing innovative solutions and exceptional service, we aim to support the critical infrastructure of the industries we serve, promoting safety, sustainability, and operational excellence.

Vision

Our vision at ESLAH Co. For Maintenance Services is to be the Middle East's leading engineering service provider, recognized for our expertise, innovation, and commitment to excellence. We aspire to drive industry progress through innovation and excellence.

To deliver top-quality technical services in the energy, oil, and gas sectors, enhancing system reliability and efficiency. **Our vision is to be the Middle East's leading engineering service provider**, driving industry progress through innovation and excellence.

Our Values



Innovation

We constantly seek out **new ideas** and creative solutions to challenges, ensuring our products and services are at the forefront of our industry.



Integrity

We conduct our business with the highest ethical standards, fostering trust and transparency with our customers, employees, and partners.



Sustainability

We are committed to environmentally friendly and sustainable practices, recognizing our **responsibility to the planet and future generations**.



Community

We believe in the power of **community** and are committed to positively impacting the communities where we operate.



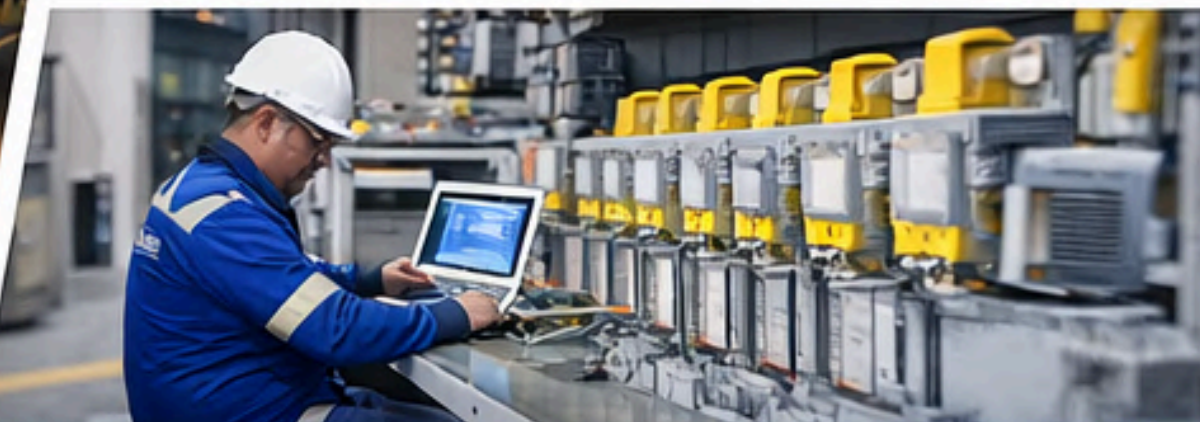
Excellence

We strive for **excellence** in everything we do, from product development to customer service, ensuring we deliver the best possible solutions.



Products and services

- Gas and Steam Turbine Services, Outages, and Upgrades.
- Generators' Inspection and Overhauling.
- Storage Tanks NDT, Repairs, and Maintenance.
- Boilers Maintenance and Rehabilitation.
- Pressure Vessel Repairs and Alterations.
- MV, HV Switch Gear, and Relays Testing.
- Electrical tests and Instrumentation calibration.
- Transformers Overhaul Maintenance and Testing.
- Electromechanical Services, PLC & Automation.
- Manpower Supply, New Installation and Engineering.
- LV Electrical Distribution Panels; Design, Supply, and Installation.
- Condition-Based Monitoring Services.



Core Activities

Eslah Co. For Maintenance Services. offers comprehensive technical services for key equipment in the energy sector, including gas turbines, steam turbines, transformers, auxiliaries, boilers, and generators. We specialize in the installation, maintenance, and testing of these critical systems to ensure optimal performance, reliability, and efficiency. Our expertise supports the continuous and safe operation of energy production and industrial processes.



Steam Turbines

Turbo - Machinery

*Capabilities in Steam Turbines
and Power Plant Auxiliaries maintenance*



Field Overhauls

- Minor Inspection.
- Major Inspection.
- Borescope Inspection.
- Bearing Inspection.
- Capability Up-rating
Turbine Retrofit

Repairs & Refurbishment

- Packing & Seal Installation.
- Blade removal & Installation of
Turbine casing.
- Advanced Welding,
Babbitt bearing repair.

Spares

- Blades & Buckets
- Diaphragms & Nozzles.
- Bearings.
- Governor Valves.
- Skid accessories.
- Reverse engineering

Gas Turbines

Turbo - Machinery

Turbo - Machinery

We offer world-class Turbo-Machinery maintenance services for virtually all the major OEMs. We provide a wide range of optimal solutions, including Outage Planning, Inspection, Overhaul, Testing and commissioning. Repairs, and Refurbishment. The technical capabilities of our field engineers and skilled technicians enable us to provide outstanding services.



Capabilities in Gas Turbines and Power Plant Auxiliaries maintenance



Field Overhauls

- Borescope Inspection
- Bearing Inspection
- CI (Combustion Inspection)
- HGPI (Hot Gas Path Inspection)
- MI (Major Inspection)
- A, B & C-Type Inspection
- Renovation & Modernization

Repairs & Refurbishment

- Inspection of Components
- Pressure testing
- Fuel/Nozzle repairs
- Blade & Bucket repair
- Sand Blasting
- In-situ Field Balancing
- Journal & Thrust Bearing repair
- Refurbishment of various Frames

Turbine Components & Spares

- Blades & Buckets
- Nozzles & Vanes
- Combustion Components
- Advanced seals
- Field instruments
- Routine Inventory



Core Activities

Transformer

Power Systems

- Routine maintenance.
- Tap changer testing.
- High potential test.
- Impedance test.
- Tan Delta test.
- Ratio test.
- BDV test.
- Oil filtration & Purification.

Switch Gear

Power Systems

- HV & MV Circuit Breakers' Testing & Commissioning.
- Protection Relays.
- Surge arrestor.
- Current transformers.
- Voltage transformers.
- Isolators.
- Earthing system.



LV Electrical Distribution Panels.

Design, Supply, Installation & Retrofit.



Capabilities in LV Electrical Distribution Boards

LV Power System Services

- Design and cable sizing calculation of power distribution panels, lighting, and motor control centers.
- Engineering service for Electrical Network and LV system (load flow, study, short circuit, etc.).
- Point-to-point scheme check, Functional check, Pre-commissioning, and commissioning of Panels.
- Supply and installation of LV distribution and lighting panels.
- Retrofit and rehabilitation of existing panel boards.
- Installation of Building Management Systems (BMS), LV switchgear maintenance, and troubleshooting,
- MCCB and LV cable testing, Relay acceptance & final testing — MCCB — CT & VT — Functional test.
- Turnaround Preventive Maintenance of Electrical Protection Relays in LV Switchgears and MCCs:.
- Upgradation of the obsolete device, including Panel Mounting with necessary accessories and modifications.



Control Systems

Turbo • Automation

Capabilities in Gas Turbines, Steam Turbines, Boilers, DCS and Excitation Control Systems.



Field Services

- GE Speedtronic MKV,
- GE Speedtronic MKVI,
- GE Speedtronic MKVIe,
- Allen-Bradly Series,
- EX2100 & EX2100e,
- SPPA-T3000.
- Upgrade consultations.

On & Off Base Instrument

- Excitation & voltage regulation.
- Vibration Monitoring.
- Fire alarm & detection systems.
- Fuel system upgrades.
- Control system retrofit.
- Field Instrumentation.
- Vibro-Meter Vibration & Condition Monitoring (VMS).

Application

- MODBUS Communication.
- Ethernet Communication.
- Combustion Monitoring.
- Anti-surge controllers.
- Variable IGV compensation.
- Continuous Emission Monitoring (CEMS).

Condition Monitoring



1 Condition Base Monitoring Implementation.

The monitoring/surveillance methodology follows up on the machine, prevents equipment failure, and optimizes equipment operation.

2 Machinery Vibration & Diagnosis

Machine diagnostics are pivotal in meeting production needs by identifying issues early, preventing breakdowns, improving uptime, and reducing maintenance costs.

3 Machinery Dynamic Balancing.

Use a state-of-the-art portable instrument that performs Dynamic Balancing for single up to 4 planes.

4 Environmental Noise Assessment.

5 Ultrasonic Leakage Detection.

Ultrasonic sound can find leaks even in highnoise surroundings and rapidly tag fix the leak smoothly.

6 Infra-red Thermo-graph.

IR inspections provide the client with real-time data, ensuring the immediate identification of defects that could lead to equipment failure, energy loss, or environmental impact.

7 Easy Laser Alignment.

- Precision Shift/Sheave EASY LASER Alignment.
- Geometric EASY LASER Alignment.
- Rotating equipment is sensitive to alignment concerning each other and to the smallest change in operating conditions.

8 Detailed engineering Services.

Storage Tanks' Repair & NDT Inspection

Capabilities in Engineering, Fabrication, Welding, NDT Inspection, and Testing of Storage Tanks

Engineering & Installation

- Integrated EPC construction of storage tanks (Fuel, Crude, Wateretc.)
- Lightning protection system design and installation
- Cathodic protection system design, Installation & commissioning



Repairs & Rehabilitation

- Fabrication & Welding activities
- Thermal Insulation, replace fiberglass and foam injection
- Sand blasting and Painting
- Overhauling for tank valves
- Floating roof & tank bottom repair and defect handling
- Replacement of roof plates



Non-Destructive Tests

- Hydrostatic Test
- Magnetic Particle Test
- X-Ray Testing
- Gamma-Ray Test
- Fluorescent Penetrant Dye Test
- Hardness Test
- Magnaflux Physical Weld Test
- Electromagnetic Eddy Current





Industries / Sectors we serve

✓ Energy

Conventional Power Plants.
Renewables Power Plants.
Transmission and Distribution..

✓ Oil and Gas

Gas, LNG Plants, and crude Oil
Facilities.
Refineries and Petrochemicals.

✓ Cement, Fertilizers, and Aluminum.

✓ Environmental Industries.

✓ Training & Consultancy.

✓ Projects Management.



Scope of the Briefing



Product Segmentation

- Transformers
- Industrial Valves and Actuators
- Turbines / HRSG / Gearboxes
- Electric Motors/Generators
- Electric Drives
- Switch Gears
- Industrial Automation



End-user Segmentation

- Oil & Gas
- Chemicals & Petrochemicals
- Water & Wastewater
- Pharmaceuticals
- Metals & Mining
- Power Generation
- Others (Pulp & Paper, Marine, etc.)



Services Segmentation

- Installation & Commissioning
- Training
- Spare Parts & Consumables
- Maintenance
- Repairs & Rehabilitation
- Engineering & Consulting
- Advanced Services
- Extensions, Upgrades & Retrofits
- End of Life Services
- Replacement



Our Partners

We collaborate with industry giants to synergize our strengths and drive technological advancements together.



ESLAH
For Maintenance Services

✓ AP4 Group (USA):

(GTC, AP+M, HTS, TC&E, and MaineAutomation), the leading provider of critical aftermarket solutions for the power and energy industries, provides the spare and energy industries with the broadest range of aftermarket **parts, Gas/Steam turbine outages**, and services, where and when they're neely needed. **Reverse Engineering, manufacturing, and repair of Electronic, power, and control cards (MK VI, MK V, etc.)**. Simplifying the complex world of industrial turbine maintenance and spares.

✓ SPARK Co. (KSA) offers a wide range of services in the Power Generation sector. Offering services that cover the entire project lifecycle, from feasibility studies and engineering to **Testing & Commissioning of Protection Relays, Electrical LV, MV, HV, SWGR, and Transformers**. Extensive experience in project management, procurement, and construction management.

✓ United Engineers (EGYPT): Offers services from control system design, integration, and retrofitting: An Authorized **Siemens Systems Integrator** in Egypt. UE also uses other power and control system vendors, including **ABB, PEPPERL+ FUCHS, GE, Mitsubishi, Endress+Hauser,** and **Fisher Rosemount**.

✓ Egyptian Maintenance Co. (EGYPT, Iraq, Jordan, Libya & KSA): A leading company in the field of operation, maintenance, and construction in the Oil and Gas sector: Engineering Company and Electromechanical Construction, with a high capability of providing safe and reliable execution of all **aspects of NDT, Commissioning, Start-Up, Operation, and Maintenance of large-scale power generation Steam/Gas Turbines, HRSG, Fuel Oil Tanks**, and water desalination.

✓ Al-ESLAH Technical Services and Inspection (EGYPT): Established in Egypt **(Partially owned by ESLAH Co.- Bahrain)**; provides a wide range of technical services across the energy, oil, and gas sectors. Al-ESLAH specializes in non-destructive testing, repair, maintenance of fuel storage tanks, vessels, pipelines, electrical equipment, industrial devices, and environmental monitoring systems. **It operates our services in North Africa & workforce supply from Egypt.**

Our Valued Clients



ESLAH
For Maintenance Services

We Are Proud To Work With:






ESLAH

For Maintenance Services



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