

MOGS

MAPNA GROUP OIL & GAS SERVICES

A Reliable Provider of Services in the
Oil, Gas, and Petrochemical Industries

MOGS

MAPNA GROUP
OIL & GAS SERVICES



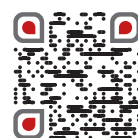
www.mogs.mapnagroup.com
info@mogs.mapnagroup.com
 MAPNA Oil & Gas Services co

Tehran Office:

Phone: +98 21 23156205
Mirdamad Boulevard, before South Mossadegh Street
(formerly South Naft Street), No. 282
MAPNA Building, 5th Floor
Postal Code: 1549965711

Head Office:

Phone: +98 26 35119124
Fax: +98 26 3660050
Alborz Province, Fardis, Hafeziyeh T- Junction
Alborz Building, 3rd Floor
Postal Code: 3167643116



Website



customer
communication



MAPNA GROUP
OIL & GAS SERVICES
MOGS

MOGS

MAPNA GROUP
OIL & GAS SERVICES



- Company Portfolio
- Service Portfolio
- Services and Equipment Coverage
- Project Track Records
- Facilities and Equipment
- Certifications and Achievements

MOGS





MOGS with the mission of providing comprehensive installation, commissioning, and operational services across the oil, gas, and petrochemical industries.

Today, through its involvement in national strategic projects, including the Shourijeh Gas Storage Facility and the Ghal'e-Nar Oil Field, MOGS has further strengthened its position as a reliable provider of installation, commissioning, operation, maintenance, and specialized technical services for both static and rotating equipment.

Leveraging its extensive experience, specialized human resources, advanced equipment, and the capabilities of MAPNA Group, MAPNA Oil & Gas Services Company

Introduction

MAPNA Oil & Gas Services Company

MAPNA Oil & Gas Services Company (MOGS) was established in 2009 under the name "Alborz Turbine," with the initial objective of providing maintenance services for MAPNA Group's manufactured equipment in the power generation sector.

Building on its growing experience and expertise and supported by a highly specialized workforce, the company progressively expanded its technical and engineering capabilities to cover a wide range of equipment and applications, including turbines and turbomachinery used in the oil, gas, and petrochemical industries.

Since 2014, the company's extensive experience in equipment repair and specialized services for refinery turbocompressors has led to its involvement in critical installation, commissioning, and operation projects for Unit 106 of the 10th, 11th, 12th, and 13th refineries in Phases 13, 14, 19, and 22-24 of the South Pars Gas Complex.

In 2024, building on its proven track record and technical capabilities, MAPNA Group expanded the company's strategic scope of specialized services and entrusted

Purpose

Creating sustainable value through the operation and maintenance of oil, gas, and petrochemical equipment and facilities.

Mission

Providing Specialized operational, technical and maintenance support services to the oil, gas, and petrochemical industries in domestic and international markets.

Vision

To become a leading provider of specialized service to the oil, gas, and petrochemical industries by 2031.

Organizational Values

- Customer Orientation
- Responsibility
- Safety
- Excellence
- Innovation
- Ethics



Service Portfolio



Operations and maintenance services



Installation and commissioning services



Full-Site Turnaround and overhaul services



Equipment repair and spare parts supply



Engineering and technical consultancy services

- Installation and commissioning of refinery and petrochemical process units
- Installation and commissioning of static and rotary equipment
- Operation and maintenance of oil and gas production fields
- Operation and maintenance of gas compression stations
- Operation and maintenance of refinery and petrochemical units
- Major overhauls of oil and gas refineries
- Major overhauls of petrochemical complexes
- Long-Term Service Agreements (LTSA)
- Overhauls of gas turbines, steam turbines, pumps, compressors, electric motors, and generators
- Supply, reverse engineering, and manufacturing of spare parts
- Physical Asset Management (PAM)
- Condition Monitoring services
- Troubleshooting, lifetime estimation, and component refurbishment



Operation & Maintenance

Maximizing the performance, reliability, and availability of facilities and equipment is a key objective of Operations & Maintenance (O&M) services in the oil and gas industry. Leveraging its highly skilled workforce, extensive technical expertise, industry knowledge, and advanced tools and technologies, MAPNA Oil & Gas Services Company (MOGS) has successfully executed numerous high-priority and critical O&M projects across the oil and gas sector.

MOGS currently operates Unit 106 of the South Pars Gas Complex, where its specialized team is responsible for the operation and maintenance of facilities that process approximately 20% to 25% of the natural gas supplied to the national gas grid.

The company is also responsible for the operation and maintenance of the complex's Sulfur Recovery Unit (SRU).



Installation & Commissioning

Since 2014, MOGS has established a strong track record in the successful execution of installation and commissioning activities for the Gas Export Unit (Unit 106) and the Sulfur Recovery Unit (Unit 108) at South Pars Gas Complex refineries, including turbocompressors and their associated auxiliary systems.

In addition, MOGS has been entrusted with the installation and commissioning of the Vapor Recovery Unit (VRU), the Shourijeh D Gas Storage Facility, and the Ghal'e-Nar Oil Field.



Full-Site Overhaul

Refineries and petrochemical complexes periodically require comprehensive overhauls of their static and rotating equipment to maintain operational reliability, safety, and performance.

With extensive experience in the inspection, repair, and overhaul of critical equipment across the oil, gas, and petrochemical industries, MOGS provides comprehensive full-site overhaul services, covering the complete range of static and rotating equipment throughout refinery and petrochemical facilities.

Services and Equipment

Repairs, Parts Supply, and Engineering:

- Balancing, Vibration Analysis, and Performance Testing Services
- Reverse Engineering, Manufacturing, and Supply of Spare Parts
- Lifetime Estimation and Component Refurbishment
- Long-Term Service Agreements (LTSA)
- Root Cause Failure Analysis (RCFA) and Corrective Actions
- Physical Asset Management (PAM)
- Condition Monitoring (CM)

Covered Gas Turbines:

- GE Frame 5, GE Frame 6, GE Frame 9, GE 10.2
- SGT-100, SGT-400, SGT-600
- MAN Turbo THM-1304
- Mitsubishi MW701D
- Rolls-Royce Avon
- MGT-30 (DU80)
- Alstom GT 13E2
- Hitachi H25
- Sulzer S7
- MGT-70 (V94.2)
- Motor Sich AI/D336

Other Covered Equipment:

- Steam Turbine (50-320 MW)
- Compressors
- Pumps
- Power Generators
- Electric Motors
- Instrumentation & Control (I&C) and Control Systems



- **South Pars Phase 13:** Installation, pre-commissioning, commissioning, and operation of MGT-30 turbocompressor packages for Unit 106, along with metering systems.
- **South Pars Phase 14:** Completion of installation, pre-commissioning and operation, start-up, maintenance, and periodic repairs prior to performance guarantee test of Unit 106; fire-fighting systems.
- **South Pars Phases 22–24:** Installation, pre-commissioning, and operation of MGT-30 turbocompressor packages for Unit 106 and the metering system.
- **South Pars Gas Complex – Refinery 10 (Phase 19):** Commissioning, operation, maintenance, and repair of Unit 106, MGT-30 turbocompressors, and the metering system.
- **South Pars Gas Complex – Refinery 11:** Maintenance, repair, operation, and supervision of Unit 106.
- **South Pars Gas Complex – Refinery 12:** Maintenance, repair, operation, and supervision of Unit 106.
- **South Pars Refinery 14:** Completion, installation, and commissioning of eight turbocompressor units, auxiliary equipment, metering section, and shared piping systems.
- **South Pars Phase 19:** Completion, installation, and commissioning of eight turbocompressor units and auxiliary systems.
- **South Pars Phases 22–24:** Installation, commissioning, and operation of eight turbocompressor units and auxiliary equipment.
- **Gas Transmission Operations Districts 2 & 3:** Repair and parts supply for SGT-600 and Frame 5 turbines at Qom and Dorahan gas compressor stations.
- **Gas Transmission Operations District 5:** Repair and parts supply for five SGT-600 turbines at Farashband, Khonj, and Arsenjan compressor stations.
- **Gas Transmission Operations District 8:** Repair and parts supply for four GE10-2 turbines at Marand and Merganlar stations, and parts supply for SGT-400 turbines at Tabriz gas compressor station.
- **Gas Transmission Operations District 6:** Major overhaul and supply of key components for two Motor Sich AI/D3360 turbines.

- **South Pars Gas Complex:** Swap, installation, and commissioning of more than 40 MGT-30 turbines.
- **South Pars Refineries 4 & 5:** Repair and supply of major components for GE MS-5002, SGT-600, and SGT-400 turbines.
- **South Pars Refinery 1:** Repair, maintenance, and supply of major components for GE-F6 turbines.
- **Shazand Petrochemical Complex:** Repair, maintenance, and supply of major components for GE-F6 turbines.
- **Fajr Petrochemical Complex:** Routine maintenance and overhaul of MGT-70 and GE-F9 turbines.
- **VRU Project (Stage II Vapor Recovery System):** Installation and commissioning of gasoline vapor recovery systems during product unloading at fuel depots and during refueling operations.
- **Zahedan Power Plant:** Overhaul and parts supply for MGT-40 turbines.
- **Gas Transmission Operations District 10:** Repair of SGT-600 turbines at Sardasht, Khormuj, and Khirgu compressor stations.
- **Pars Petrochemical:** Execution of RI (rotor inspection) on three rotor units, turbine swap of one unit, and supply of one GE-F5 turbine rotor.
- **Ilam Petrochemical:** Multi-level repairs of Hitachi H-25 turbines.
- **Rotor Repair & RI:** Rotor repair and RI services for F9, F6, F5, and MW701D models for various clients including power plants (Rey, Neyshabur, Shiraz), mining (Sarcheshmeh Copper), and petrochemical complexes (Maroon, Pars).
- Packaging of More Than 7 MGT-30 Units
- **International Projects:** Execution of repair and parts supply projects in Iraq, Syria, Indonesia, and India.

Project Execution

Records



Facilities and Equipment

Workshop Facilities:

- Material Analysis (XRF and LIBS)
- Micro and Macro Hardness Testing
- Olympus Optical, Portable, and Stereo Microscopes
- Protective Gas Heat Treatment Furnace
- Metallography and Replica Equipment
- Mechanical Properties Testing Equipment

Quality Control Laboratory:

- All Dimensional Measurement Equipment and Tools
- FX Video Probe
- Portable CMM (Coordinate Measuring Machine)
- Laser Alignment for Shells

Vibration Laboratory:

- ADRE 408 16-Channel Vibration Analyzer
- 2-Channel Vibration Analyzer
- Flue Gas Analyzer
- Shaft Alignment Device
- Rotor Kit for Balancing Training

Instrumentation Devices:

- Shaker Device
- TR3 Device
- 10KV Megger Device
- Fluke Hand Pump
- Time Test Device
- RST Meter Device
- Webco Device
- Current Injector Device
- 475 HART Calibrator
- DC Resistance Test Device
- Niowall Fully Automatic Battery Test Device
- Calibration Laboratory for Instrumentation Equipment (ISO 17025)
- Laser 3D Scanner Device



Rank 1 in Oil & Gas and Power Disciplines
(Contracting Competency Certificate - SAJJAT)



Competency and Rating for Service, Support, and Technical-Engineering Companies in three categories: Maintenance and Repair, Installations, and General Services

- License for Operation and Maintenance of Power Plants



Safety Competency Certificates for Contracting Companies from the Ministry of Cooperatives, Labour, and Social Welfare

Certifications and Achievements

- Knowledge-Based Company Certification
- Achievements of Three Million Working Hours Without a Lost-Time Incident (LTI)
- Recipient of MAPNA Group's Four-Star Excellence Plaque
- National recognition as a for Best Workplace Health House
- Inclusion in the Preferred Supplier and Contractor Lists of the Thermal Power Generation Holding Company



First Rank among Top 100 Companies for High Growth
(Industrial Management Organization of Iran)





MAPNA GROUP

OIL & GAS SERVICES

A Reliable Provider of Services in the
Oil, Gas, and Petrochemical Industries