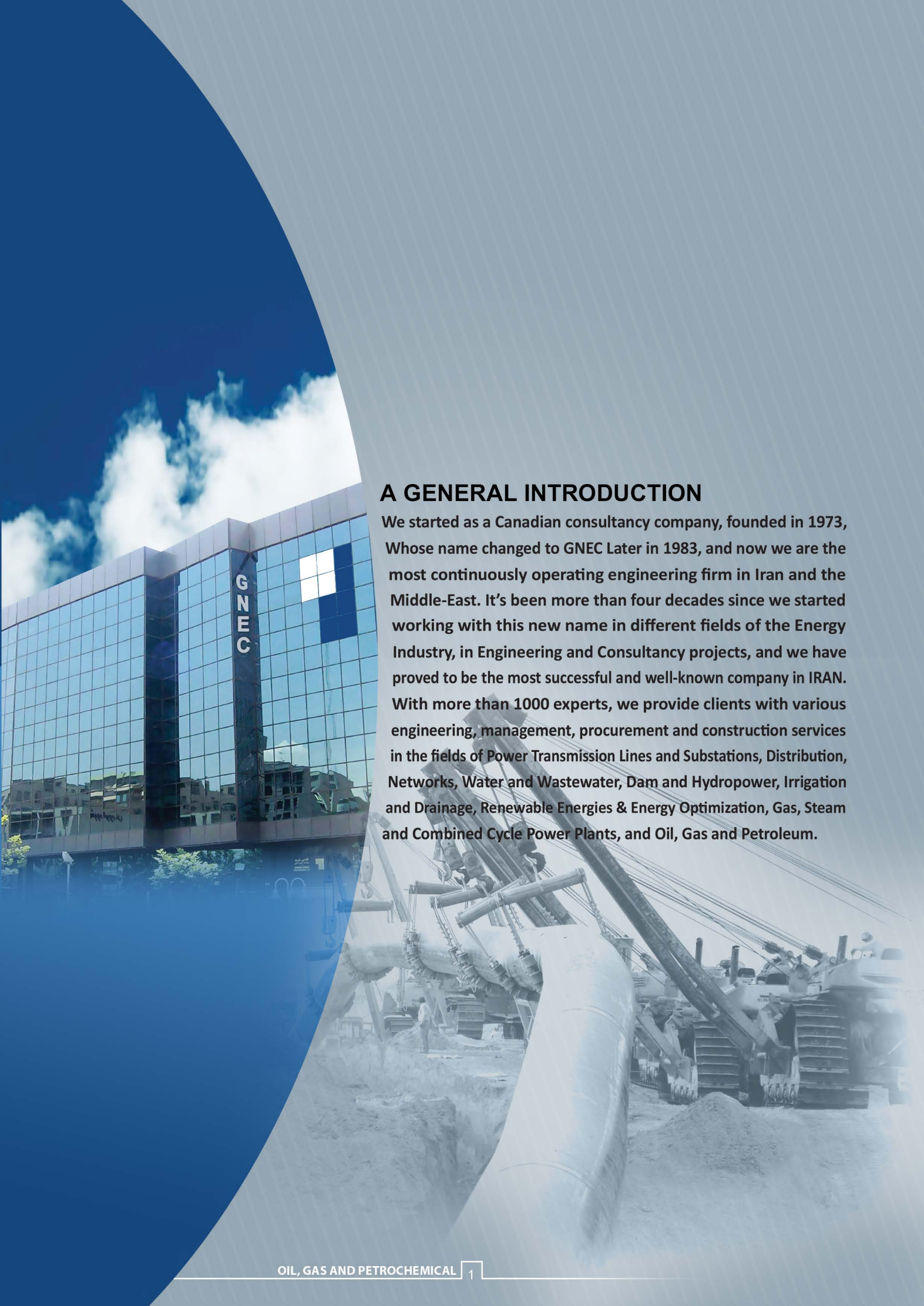




**Oil, Gas and
Petrochemical**



A GENERAL INTRODUCTION

We started as a Canadian consultancy company, founded in 1973, Whose name changed to GNEC Later in 1983, and now we are the most continuously operating engineering firm in Iran and the Middle-East. It's been more than four decades since we started working with this new name in different fields of the Energy Industry, in Engineering and Consultancy projects, and we have proved to be the most successful and well-known company in IRAN. With more than 1000 experts, we provide clients with various engineering, management, procurement and construction services in the fields of Power Transmission Lines and Substations, Distribution, Networks, Water and Wastewater, Dam and Hydropower, Irrigation and Drainage, Renewable Energies & Energy Optimization, Gas, Steam and Combined Cycle Power Plants, and Oil, Gas and Petroleum.

OUR EXPERIENCES

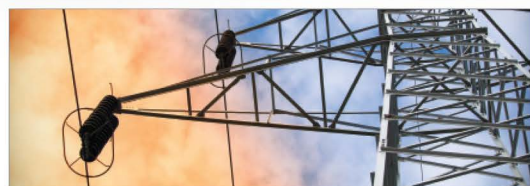
We have already provided services for:

- More than 27,000 Km of power transmission lines and many distribution networks from 33kV to 400kV.
- More than 820 substations in all voltage levels from 33kV to 400kV.
- More than 60,000 MW of power plants.
- More than 310 projects in dams, water transmission lines, irrigation, drainage, hydropower plants and about 500 km of water & wastewater network.
- More than 3000 km of gas transmission lines and several fuel storage tanks.
- More than 100 renewable energy plants and energy management projects with a wide variety of services.



OUR SERVICES

- Design and engineering services
- Project review, project management, construction control and supervision
- Conceptual, preliminary and detailed design
- Consultancy services and economic studies
- Management of contract (MC)
- Feasibility studies, EIA, ESIA, HSE, and RAP
- Surveying and geotechnical investigations and engineering
- Engineering, procurement and construction (EPC) services
- Electricity grid and access studies and reliability improvement



BUSINESS EXPANSION

Our area of activities has always been expanding by adding new businesses fields such as Hydro structures in 1994, Oil & Gas in 2002, renewable energies in 2005 and continue to grow by entering into exporting engineering services, and participating in EPC, BOO and BOT projects.

Business Growth During the Years

1973 1975 1993 1995 1997 1999 2000 2002 2005 2007 2008 2011

Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Combined and Gas Power Plant, Power Plant Industries, Oil and Gas, MC projects, Renewable Energies, Engineering Services Export, EPC, **BOO and BOT Projects**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Combined and Gas Power Plant, Power Plant Industries, Oil and Gas, MC projects, Renewable Energies, Engineering Services Export, **EPC Projects**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Combined and Gas Power Plant, Power Plant Industries, Oil and Gas, MC projects, Renewable Energies, **Engineering Services Export**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Combined and Gas Power Plant, Power Plant Industries, Oil and Gas, MC projects, **Renewable Energies**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Combined and Gas Power Plant, Power Plant Industries, **Oil and Gas and MC projects**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Combined and Gas Power Plant, **Power Plant Industries**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, Gas and **Combined Cycle Power Plant**



Steam power plants, Transmission lines and Substations, Hydro Structures, Electricity Distribution, **Gas Power Plant**



Steam power plants, Transmission lines and Substations, Hydro Structures, **Electricity Distribution**



Steam power plants, Transmission and Substationss, **Hydro Structures**



Steam power plants, **Transmission Lines and Substations**



Steam power plants



Certificates

ISO 9001



ISO 14001



ISO 45001



HSE-MS



ISO 10015



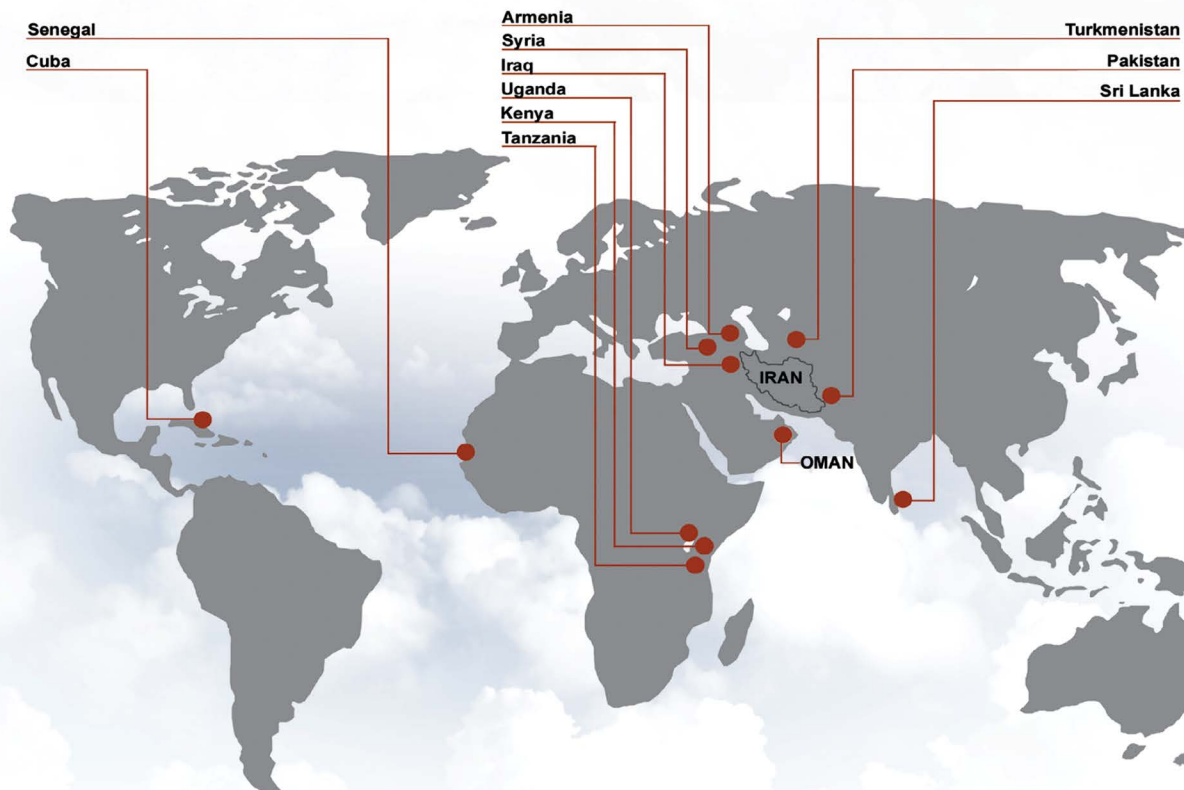
EFQM

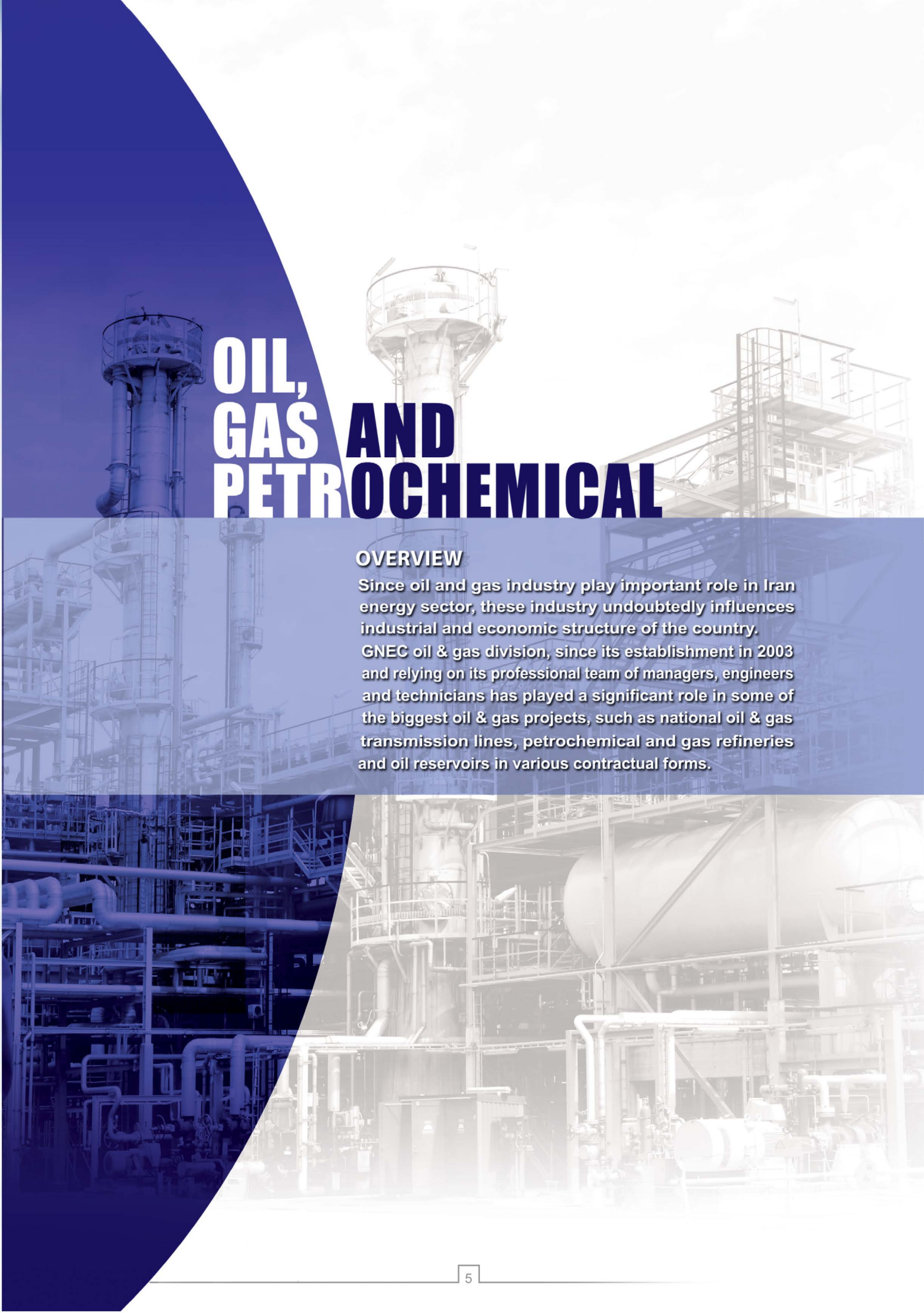


ISO 10006



GNEC Area of Activity





OIL, GAS AND PETROCHEMICAL

OVERVIEW

Since oil and gas industry play important role in Iran energy sector, these industry undoubtedly influences industrial and economic structure of the country.

GNEC oil & gas division, since its establishment in 2003 and relying on its professional team of managers, engineers and technicians has played a significant role in some of the biggest oil & gas projects, such as national oil & gas transmission lines, petrochemical and gas refineries and oil reservoirs in various contractual forms.

FIELD OF ACTIVITIES

- Gas & Oil transmission lines
- Gas Reservoirs
- Petrochemical Plants
- Gas & Oil pump stations



*Station No.5
Gureh- jask Pipeline*



Asaluyeh Booster Gas Compressor



IGAT V – Gas Trunk line



SERVICES

- Engineering consultancy and site supervision
- Managing of contract (MC)
- Procurement of oil and gas materials and equipment
- Executing projects in EPC and PC contractual frame works
- Professional contractual and claim administration services
- Operation and maintenance surveying & management
- Conceptual design & detailed engineering
- Health, safety and environment (HSE) management



Pataveh 4 Gas Compressor Station



IGAT V – Gas Trunk line



Shoorije Gas Reservoir

Highlighted Projects

IGATs

The Iran Gas Trunk line (IGAT) is a series of large diameter pipelines constructed from gas refineries in the south of Iran (Khuzestan and Bushehr provinces) in order to transfer natural gas to consumption centers across the country. GNEC is honored to have main role in completing most of these projects.

IGAT 5:

IGAT 5, 56 inches (1,420 mm) in diameter, transfers **sour** gas produced in phases 6, 7 and 8 along 500Km to Khuzestan Province to be injected into the oil wells. GNEC as a MC directed the project in different sections in 6 years.

IGAT 6:

The continuation of the sixth national gas trunk line (IGAT 6) from Ahvaz to Dehgolan with a diameter of 56 inches and an approximate length of 600 kilometers with more than 500 kilometers of branches was defined as a high priority for the implementation of the National Iranian Gas Company's plans. This important and strategic plan was successfully completed with the active presence of GNEC as the supreme supervisory body and workshop.

IGAT 9:

IGAT 9 (Europe Gas Export Line), 56 inches (1,420 mm) in diameter, originates from Asalouyeh and passes by western provinces (Khūzestān, Īlām, Kurdistan and Azerbaijan) and reaches Turkey's border. As a high priority project, it has 15 stations alongside its 1800Km length. GNEC used to be the MC of this project.



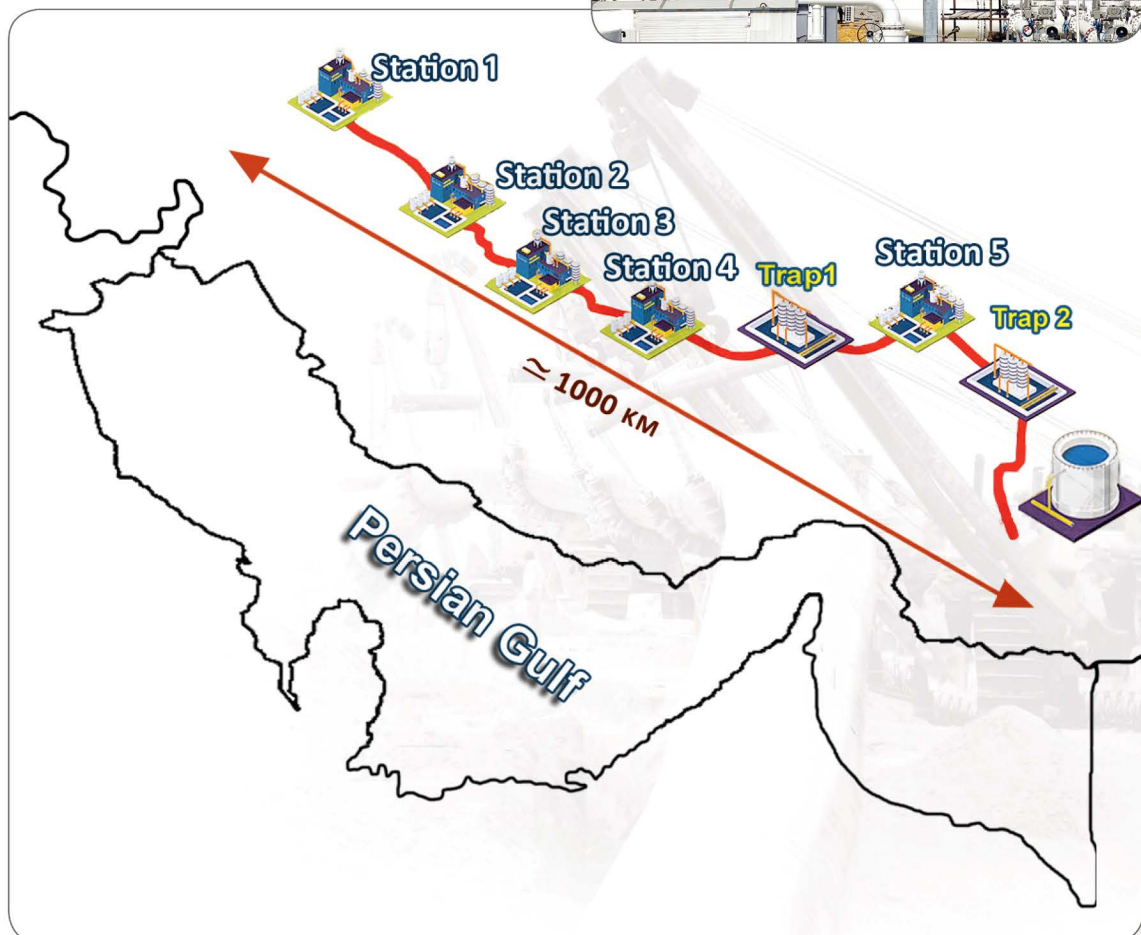
O&M supervisory of West ethylene pipeline

West ethylene pipeline carries ethylene from south to north of Iran. Alongside near 1600Km, There are 5 stations to compress the fluid. Fifteen refineries which are located at south and west of Iran, are fed by this pipeline. GNEC is the O&M consultant and supervisor.



Consultancy and supervision for Gureh-Jask pipeline's Pump Stations (includes 5 stations- two traps and Terminal)

For decentralizing and creation new facilities along Indian Ocean, Gureh- Jask pipeline has been constructed. 42" pipeline in 1000Km length with 5 pump stations, two pig launchers /receivers & Terminal, transfers crude oil out of strait of Hormoz. By using This strategic pipeline, the oil exporting capacity increases 1'000'000 bbl/day. The crude oil is being Embarked through Jask terminal near Oman sea .GNEC is the EPC consultant and supervisor the pump stations.





EPC Contract for Replacement of one row of worn-out electro compressors of two stations and purchase and installation of two electro motors for third injection station:

In August 2022, An EPC Project, based on renovation old reciprocating compressors and replacing all related facilities by brand new equipment in two different stations was rewarded to GNEC. At third station two electromotor shall be replaced. The owner of this project is National Iranian South Oil Fields Company (NISOC) and the client is Persian Gulf Bid Boland Gas Refinery Company (PGBGT)



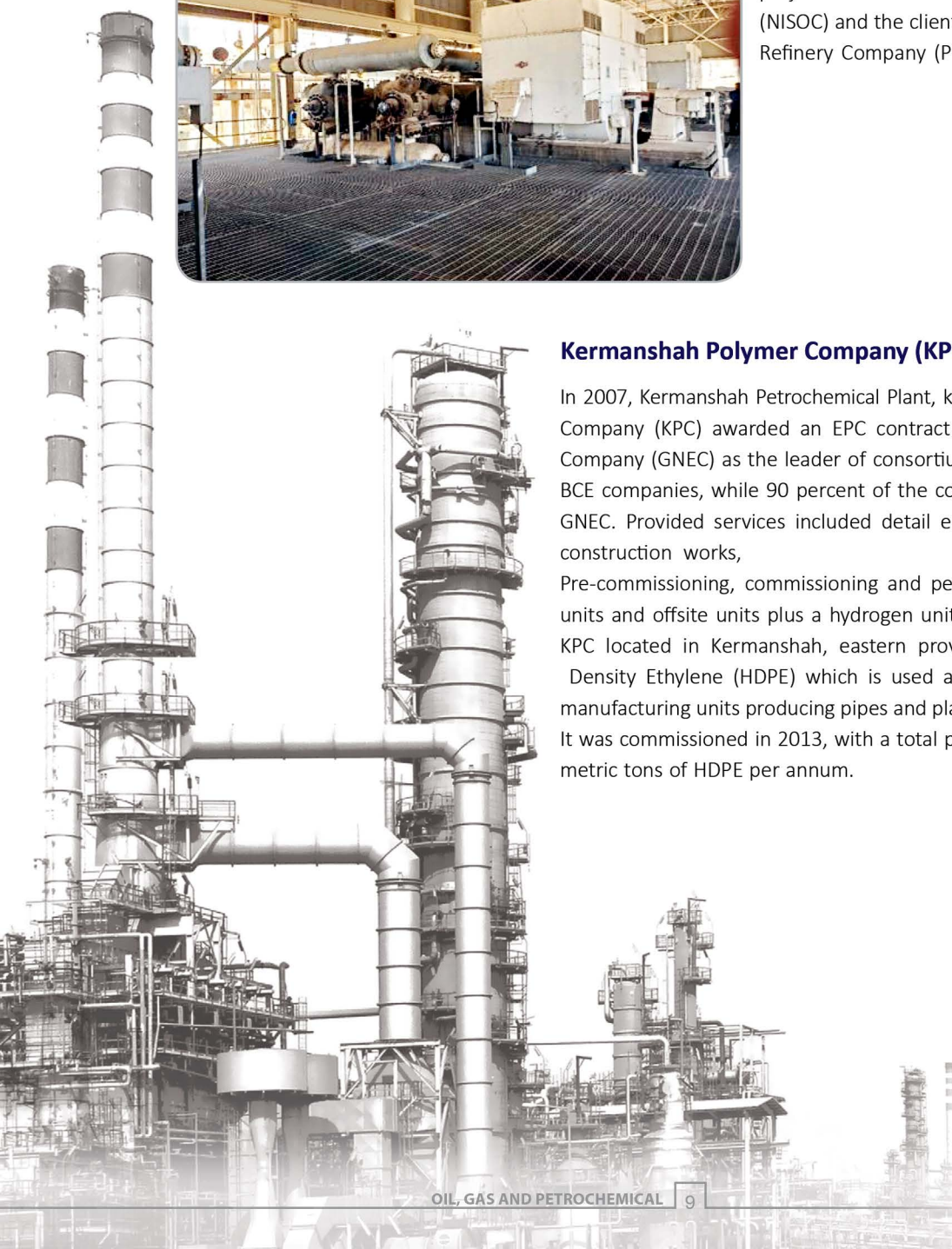
Kermanshah Polymer Company (KPC):

In 2007, Kermanshah Petrochemical Plant, known as Kermanshah Polymer Company (KPC) awarded an EPC contract to Ghods Niroo Engineering Company (GNEC) as the leader of consortium comprising GNEC, TEP and BCE companies, while 90 percent of the consortium shares belonging to GNEC. Provided services included detail engineering, procurement and construction works,

Pre-commissioning, commissioning and performance tests for all utility units and offsite units plus a hydrogen unit for KPC.

KPC located in Kermanshah, eastern province of Iran, produces High Density Ethylene (HDPE) which is used as main feed for downstream manufacturing units producing pipes and plastic products.

It was commissioned in 2013, with a total production amount of 300,000 metric tons of HDPE per annum.



References

Finish Date	Assignment Name	Name of Client & Country of assignment	Role on the Assignment
On going	Replacement of one row of worn-out electro compressors of Karanj station 200 and Parsi station 400 by EPCC method and purchase and installation of two electro motors for Karanj 500 gas injection station (JV with Boniz Sazeh)	Persian Gulf Bid Boland Gas Refinery Company (PGBGT)	EPC Contractor
On going	Consulting and supervisory services on construction of two BGSS – IGAT VII	Iranian Gas Engineering & Development co.	consultancy & supervision
On going	Consultancy and supervision for Gureh-Jask pipeline's Pump Stations (includes 5 stations- two traps and Terminal)	Petroleum & Engineering & Development CO. - Iran	consultancy & supervision
2023	Technical and management Consulting contract on Shoorijeh & Serajeh Reservoir development BOT project	Iranian Gas Engineering & Development co. - Iran	consultancy & supervision
2023	O&M supervisory of West ethylene pipeline (5 Stations- 1600Km)	National Iranian petrochemical co. Iran	consultancy & supervision
2020	consultancy & supervision on Optical fiber national north Gas pipeline	Iranian Gas Engineering & Development co. v	consultancy & supervision
2019	Ardestan / Kashan / Dehshir / Naeen BGC stations	Iranian Gas Engineering & Development co. - Iran	consultancy & supervision
2019	Engineering consultancy for national gas network- Tehran province	Tehran Gas Company - Iran	consultancy & supervision
2019	Qom gas transmission and network project	Qom Gas Company - Iran	consultancy & supervision
2018	Providing MC services for basic design of whole "IGAT IX" in addition to detailed design, procurement and construction phase 3rd section of mentioned Transmission line	Iranian Gas Engineering & Development co. - Iran	Management of contract
2018	Pipeline from Shahid Mondani-Zadeh Station to Bidboland1- Refinery (JV with Iran Arvin co.)	Iranian Gas Engineering & Development co. - Iran	EPC Contractor
2018	Surveying & consumption estimation for national gas network Kerman Province	Kerman Gas Company - Iran	surveying & consumption estimation
2017	Comprehensive supervision on -56 inch IGAT VI Gas Trunk Line of Ahvaz-Dehgolan pipeline with approximate length of 597 Km and relevant branches	Iranian Gas Engineering & Development co. - Iran	consultancy & supervision
2016	Kermanshah Petrochemical Plant includes water/steam/ hydrogen and utility units	Kermanshah polymer petrochemical complex - Iran	EPC Contractor
2016	Providing consulting services, comprehensive of « Construction 4th PATAVEH Gas Compressor Station through PC method	Iranian Gas Engineering & Development co. - Iran	consultancy & supervision
2014	Consultant's services for surveying, feasibility study, designing and package preparation for Kermanshah Province Gas Network at 1000Km Length	Kermanshah Gas Company - Iran	consultancy & supervision
2013	HSE supervision in the Fifth South Pars refinery (phases 9 and 10)	South Pars Gas Company- Iran	HSE consultancy & supervision
2012	Implementation and supervision on execution of safety health, environment and fire system of fifth refinery of south pars complex (phases 9 and 10)	South Pars Gas Company - Iran	HSE consultancy & supervision
2012	O&M supervisory for operation at Fourth South pars refinery (Phases 7 ,6 and 8)	South Pars Gas Company - Iran	O&M supervision
2012	Management Contract services (MC Services) for implementation of the Fifth Iranian Gas Trunk Line IGAT V (500 Km) – Sour gas – 56 inches	Iranian Gas Engineering & Development co. - Iran	Management of contract



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